Period Review Report

Steelfields (aka Riverbend) Site

Site No. #V00619

Buffalo, New York

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1. Introduction

Roux Environmental Engineering & Geology, D.P.C. (Roux) has prepared this Periodic Review Report (PRR) on behalf of Fort Schuyler Management Corporation (FSMC) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) Steelfields (aka RiverBend) Site No. V00619.

This PRR has been prepared in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Forms have been prepared for each of the three designated areas (i.e., Area I, Area II, and Area III) of the Site. This PRR and the associated IC/EC Form (see Appendix A) have been completed for the May 1, 2023, to May 1, 2025, reporting period.

1.1 Site Background

In October 2002, Steelfields Ltd. purchased several vacant industrial properties in South Buffalo, New York (see Figures 1 and 2) out of bankruptcy from the LTV Steel Company and Hanna Furnace Corporation (a wholly owned subsidiary of the National Steel Corporation). At the same time, Steelfields Ltd entered into a Voluntary Cleanup Agreement (VCA) with the NYSDEC to remediate four parcels identified below, totaling approximately 213 acres. The parcels were divided based on the operational and ownership history of each:

- Area I – Former Republic (LTV) Steel Plant Parcel (Approximately 90 acres)
- Area II – Former Donner-Hanna Coke Plant Parcel (Approximately 50 acres)
- Area III - Former Republic (LTV) Steel Warehouse Parcel (Approximately 42 acres)
- Area IV – Former Donner-Hanna Coke Yard Parcel (Approximately 31.1 acres)

In July 2003, a fifth parcel, the formerly owned and operated August Feine & Sons property (4.2 acres), was acquired by Steelfields Ltd. The August Feine property, though relevant and proximate to the Steelfields (aka RiverBend) Site, is not under any NYSDEC program or subject to a SMP under the Steelfields (aka RiverBend) VCA. As such, only Areas I, II, III, and IV were remediated under the NYSDEC VCA. Subsequent to completion of the remediation of Area IV by Steelfields Ltd in 2006, this parcel was separated from the Site, sold to Hydro-Air Components, Inc. (Hydro-Air), and entered into the Brownfield Cleanup Program (NYSDEC BCP Site No. C915204) by Hydro-Air. Accordingly, this report does not address Area IV. RiverBend, LLC, a Buffalo Urban Development Corporation (BUDC)-related entity, acquired the Site from Steelfields Ltd in May 2008. On July 22, 2014, FSMC acquired Area I of the Site from RiverBend, LLC. On November 24, 2014, FSMC acquired Areas II and III from RiverBend, LLC. On June 24, 2016, a sixth parcel, the formerly owned and operated Norfolk Southern Railroad property (23.58 acres), was acquired by FSMC. Similar to the former August Feine property, the former Norfolk Southern property is also relevant and proximate to the Steelfields (aka RiverBend) Site and is not under any NYSDEC program or subject to a SMP under the Steelfields (aka RiverBend) VCA.

2. Site Overview

The Steelfields (AKA RiverBend) VCP Site, comprised of former heavy industrial properties identified as Areas I, II, and III encompasses approximately 182 acres in the City of Buffalo, Erie County, New York (see Figure 2). The Site is bordered by the Buffalo River and South Park Avenue to the north; Abby Street and residential neighborhoods to the east; Former Area IV (currently Hydro-Air Components) to the south; and a railroad corridor and rail yard to the west (contiguous parcels owned by South Buffalo Railroad Company, Buffalo Southern Railroad, and CSX Corporation) (see Figure 2).

Environmental investigations of the Site revealed the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs), and metals in soil and groundwater that required remediation. Remedial activities were completed across the Site from 2002 through 2006. Detailed descriptions of the remedial efforts and construction documents for this period are provided in the NYSDEC's approved Construction Closeout Report for Area I, including the Site Management Plan, prepared by TurnKey Environmental Restoration, LLC (Ref. 2); and the Final Engineering Report for Areas II and III, Former Donner-Hanna Coke Plant and Republic (LTV) Steel Properties, including a Site Management Plan, prepared by Malcolm Pirnie, Inc (Ref. 3). Redevelopment and remedial activities were completed on Area I from 2014 through 2017. Details of this work are provided in the Construction Completion Report RiverBend Area I (Ref. 4). A brief description of the remedial efforts described in those documents is presented below.

2.1 Area I- Former Republic (LTV) Steel Parcel

The former Republic Steel (LTV) Plant property encompasses two adjoining parcels (122.16-1-8.1 and 122.20-1-3.1) totaling approximately 90 acres (see Figure 2). Area I is bordered by the Buffalo River and South Park Avenue to the north, Abby Street and residential neighborhoods to the east, former Norfolk Southern property to the south (now part of the Steelfields (AKA RiverBend) Site), and a railroad corridor and rail yard to the west. Remedial efforts conducted in Area I included:

- Remediation of petroleum/naphthalene/tar-impacted and metals-impacted soil/fill.
- Removal of former fuel oil and tar transfer pipelines, including disposal of residual product within the piping and impacted soil in the vicinity of the pipelines.
- Removal of former underground storage tanks.
- Buffalo Riverbank stabilization.
- Removal of Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) encountered during the construction of manufacturing building. Approximately 40,000 CY of TENORM material was removed during construction activities. Approximately 9,211 tons (approximately 6,000 CY) of this material was sent for disposal at an approved TENORM disposal facility. The remainder remained onsite as described below.
- On September 20, 2016, NYSDEC approved a 6NYCRR Part 380 Variance Request that allowed the on-site reuse of TENORM material with Ra-226 concentrations less than 15 pCi/g.

Approximately 34,000 CY of TENORM material meeting this requirement was placed in a 10.6-acre area in the southwestern portion of Area I. The TENORM material is less than three feet thick with orange demarcation fabric placed over the TENORM material followed by one foot layer of clean 2-inch crushed stone cover.

- In the office area of the manufacturing building a passive sub-slab depressurization system (SSDS) was installed below the concrete floor. The passive SSDS consists of four-inch diameter perforated installed in three stone filled trenches running the length of the office area with a 15-mil vapor barrier covering the entire office area just below the concrete floor. The perforated pipes are attached to solid manifold pipes that extend vertically through the building and penetrate the roof away from air intakes. Any soil vapor that rises from the soil/fill beneath the office area will be collected in the perforated pipe and exit the roof vent.

- The site has a cover system comprised of green space, asphalt, concrete, stone, and bioretention swales.

2.2 Area II- Former Donner- Hanna Coke Plant

The former Donner-Hanna Coke Plant property encompasses three adjoining parcels (122.20-1-21, 122.20-1-5.1, and 132.08-1-6) totaling approximately 50.0 acres (see Figure 2). Area II, partially intersected by Baraga Street, is bordered by an adjacent earthen berm along Abby Street and residential neighborhoods to the east; the former Norfolk Southern property and the former August Feine parcel (now part of the Steelfields (aka Riverbend) Site to the north; Area III to the south; and a railroad corridor and rail yard to the west. Remedial efforts conducted in Area II included:

- Construction of a 14-acre Containment Cell with slurry wall, low-permeability cover system, and a groundwater collection and conveyance system
- Construction of a groundwater pre-treatment system (GWPTS)
- In-situ “hotspot” remediation
- In addition, in July 2016, although not a remedial effort the terminal basin was filled with 1,600 CY of soil/fill (with no known impacts) from Parcel I, thereby avoiding the physical hazard associated with that structure.
-

2.3 Area III- Former Warehouse Parcel

The former Republic Steel Warehouse property encompasses two adjoining parcels (132.08-1-7 and 132.12-1-9.11) totaling approximately 42 acres (see Figure 2). Area III is bordered by Abby Street and residential neighborhoods to the east; Area II to the north; Former Area IV (currently Hydro-Air Components) to the south; and an active railroad corridor and rail yard to the west. Remedial efforts conducted in Area III included:

- On-site blue-stained soil/fill treatment and disposal/consolidation in the Area II Containment Cell
- On-site lead-impacted soil/fill treatment and disposal/consolidation in the Area II Containment Cell
- Tar-impacted soil/fill disposal/consolidation in Area II Containment Cell
- In situ groundwater treatment with oxygen release compound (ORC) at 11 ORC treatment wells

- From July 2016 through November 2016 approximately 60,000 CY of soil/fill with no known impacts from Parcel I was placed in a low area of the site to facilitate future redevelopment.

2.4 Former August Feine Parcel

The former August Feine property encompasses one parcel (122.20-1-22) approximately 4 acres in size (see Figure 2). This property is surrounded by Area II on the west, south, and east; and the former Norfolk Southern property to the north (Baraga Street dead ends at the entrance to this parcel). The former August Feine property, though relevant and proximate to the Steelfields (aka RiverBend) Site, is not under any NYSDEC program or subject to a SMP under the Steelfields (aka RiverBend) VCA. As such, any discussions, or findings as a result of the site assessment regarding the August Feine property are provided herein for informational purposes only.

A July 2006 site assessment of the former August Feine parcel identified localized VOC (primarily benzene) and total metal (plus cyanide) impacts to subsurface soil/fill and shallow groundwater along the common boundary with Area II. Based on the proximity of these identified impacts to the Area II groundwater collection trench, the leachable impacts, if any, are being captured and treated by the groundwater collection system, mitigating downgradient migration and potential environmental impact. As such, no additional remediation, beyond those already being implemented in accordance with the VCA for Area II, was recommended. Any potential for subsurface soil/fill exposure during future development of the property (i.e., utility installation) will be addressed in accordance with the Soil/Fill Management Plan (see Section 3.3).

In June 2009, the former August Feine building caught fire and emergency demolition followed. A concrete slab on grade foundation and a small brick walled shed is all that remained, and storm water management of this area was subsequently discontinued. In September 2015 and with NYSDEC approval, the footprint of the former August Feine building was filled in with processed concrete material generated during Area I redevelopment. A substation servicing the redevelopment on Area I was constructed on the August Feine parcel in 2016.

2.5 Former Norfolk Southern Parcel

The former Norfolk Southern property encompasses one parcel (122.20-1-23.12) approximately 23 acres in size (see Figure 2). The property is bounded on the north by Area I and Area II and the former August Feine property to the south. The former Norfolk Southern property was historically used to transport manufactured steel, iron, metallurgical coke, and coke by-products for Republic Steel and Donner Hanna Coke. In 2024, the property was improved with the development of additional parking for the Tesla Facility (referred to as the East Parking Lot Expansion Construction). This property, though relevant and proximate to the Steelfields (aka RiverBend) Site, is not under any NYSDEC program or subject to a SMP under the Steelfields (aka RiverBend) VCA but is owned by FSMC.

3. Site Management Plan

Areas I, II, and III of the Steelfields (aka RiverBend) Site are managed by three separate Site Management Plans (SMPs). These SMPs include Operation, Monitoring, and Maintenance (OM&M) Plans; Long-Term Groundwater Monitoring (LTGWM) Plans; and Soil/Fill Management Plans (SFMPs); for their respective parcels. Additionally, an Environmental Easement has been placed on the entire Steelfields (aka Riverbend) site, along with Covenants and Restrictions. The Area I SMP (Ref. 5), Area II SMP (Ref. 6), and Area III SMP (Ref. 7) were revised in 2021 to incorporate approved changes in operation (e.g., switching from petrotraps to adsorbent socks at A1-MW-6) and site development since the initial issuance of these plans. NYSDEC approved these revised SMPs on September 29, 2021. The former August Feine and former Norfolk Southern properties are not subject to a SMP under the Steelfields (aka RiverBend) VCA. A brief description of the SMP components is presented below.

3.1 Operation, Monitoring, and Maintenance (OM&M) Plan

As a requirement of the OM&M Plans, annual inspections of Areas I, II, and III are required. The NYSDEC PRR Institutional and Engineering Controls (IC/EC) Certification Form has replaced the previously used Environmental Inspection Forms for each Area. Appendix A includes the completed IC/EC Form for the current period. Appendix A2 includes the requested Environmental Inspection Forms. Details of the annual inspection and completion of the IC/EC Form is discussed in Sections 3.5 and 3.6 below.

3.1.1 *Area I*

The Area I SMP provides the details for Operation and Maintenance (O&M) related to the product recovery at monitoring well A1-MW-6, the cover system, and the Passive Gas Venting System (PGVS). Specifically, the O&M Plan details the inspection program, routine maintenance operations, and reporting requirements for these ECs. In February 2017 due to exceptionally low product recovery volumes, the NYSDEC approved discontinuing the use of a passive skimmer in well A1-MW-6 in lieu of an absorbent sock. From May 2024 through May 2025, the time period of the current Periodic Review Report monitoring period, well A1-MW-6 was monitored for depth to water/LNAPL, and the absorbent sock removed and replaced five times over the course of the monitoring period by ROUX personnel. Table 5 of the 2024 Comprehensive Annual Groundwater Monitoring Report summarizes the monthly immiscible layer monitoring and absorbent sock replacement activities for May 2024 through May 2025. In 2015 the PGVS was installed in the northeastern corner (office area) of the building. In 2017 a cover system was installed throughout Area I.

3.1.2 *Area II*

The Area II SMP provides the O&M details related to the groundwater collection and conveyance system, including the soil flushing system; groundwater pre-treatment system (GWPTS) including the bag filters, carbon vessels, transfer pumps, separator tank, and general housekeeping; sewer discharge effluent monitoring; and low-permeability cover system (i.e., landfill post-closure monitoring and cover maintenance). Appendix C of this PRR includes the Area II GWPTS annual progress report, and the two

semi-annual effluent compliance monitoring reports submitted to the Buffalo Sewer Authority (BSA) during the current reporting period.

In September 2023, electrical communication problems between the pre-treatment building and pump stations were identified. A possible electrical surge damaged modules in the electrical control panel of the pre-treatment building. The damaged modules were replaced. However, due to the extensive damage from the power surge, the system could only be operated manually. From January 2024 through April 2025, the pump stations were operated manually each week to exercise the pumps and system components. In February 2024, FSMC solicited bids from qualified electrical contractors for a complete control system upgrade of the pump stations and pre-treatment system components. The bid was awarded to Black Rock Controls, LLC in May 2024. Work on the upgrades began in September 2024 and was completed in April 2025. All upgrades have been completed, and the groundwater treatment system electrical communication issues have been resolved. The pre-treatment is operating in auto-mode as designed. The SMP for Area II was revised and submitted to the NYSDEC in July 2025. The SMP was revised to include the Operations Manual for the upgraded GWPTS control panel. Total flow through the pre-treatment system during the certifying period was 1,323,065 gallons. No tar was generated during the certifying period.

3.1.3 *Area III*

The Area IIII O&M plan provides details related to the in-situ groundwater treatment with oxygen release compound (ORC) at 11 ORC treatment wells. ORC monitoring results are included in the 2024 Comprehensive Annual Groundwater Monitoring Report (Appendix B; and discussed in Section 3.2 below). Appendix D of the Groundwater Monitoring Report includes the July and December 2024 ORC semi-annual event inspection forms.

3.2 Long-Term Groundwater Monitoring (LTGWM) Plan

As a requirement of the SMPs, long-term groundwater monitoring is being performed at the Site. A Long-Term Groundwater Monitoring (LTGWM) Work Plan was prepared in March 2000 for Area I and most recently revised as part of the *Site Management plan for Area I* (revised September 2021 Ref. 5). Similarly, LTGWM Work Plans were prepared in October 2007 for Areas II and III. Both were most recently revised as part of the *Site Management plan for Area II* (revised September 2021 Ref. 6) *and Site Management plan for Area III* (revised September 2021 Ref. 7). Groundwater monitoring began in 2004 for Area I and in 2007 for Areas II and III. Since 2009 LTGWM for Areas I, II, and III was modified into a combined site-wide monitoring and reporting event with NYSDEC approval. A total of 23 network monitoring wells are sampled across the Site including 11 wells in Area I, 7 wells in Area II, and 5 wells in Area III. In addition to the groundwater monitoring network wells, six additional wells in Area II are monitored for water level only and 11 ORC wells are sampled in Area III. During the certifying period, none of the monitoring wells required repairs.

In May 2011, the NYSDEC approved a modification of the groundwater parameter lists and sample frequency for Areas I, II, and III. The modified monitoring program for the three Areas now follows a two-

year monitoring cycle (e.g., bi-annual) as presented in Appendix B of this PRR. In general, this modification reduces the VOC and metals analysis frequency to once every other year for most wells while the collection of field parameters must be measured every year going forward. Currently, groundwater monitoring is performed on an annual basis and ORC monitoring is performed semi-annually (every 6 months). The activities performed during each groundwater monitoring event are performed in general accordance with the following documents:

- *Site Management plan for Area I* (revised September 2021 Ref. 5)
- *Site Management plan for Area II* (revised September 2021 Ref. 6)
- *Site Management plan for Area III* (revised September 2021 Ref. 7)

Due to the large volume, the 2024 Comprehensive Annual Groundwater Monitoring Report for Areas I, II, and III is included as Appendix B to this PRR. The groundwater monitoring report also includes the results of the July and December 2024 ORC semi-annual monitoring events for Area III, all of which were conducted during the current PRR period (May 1, 2024, through May 1, 2025). Analytical data for the monitoring events was uploaded to NYSDEC's EQuIS database. A general summary of the groundwater monitoring results in Areas I, II & III during this review period is presented in the sections below.

3.2.1 *Area I Groundwater Summary*

In general, all compounds were either non-detect or at concentrations below their respective NYSDEC Groundwater Quality Standard (GWQSs), with the exception of A1-MW-6, which had a concentration of total arsenic slightly above the GWQS. A discussion of the moving average trend analysis for Area I groundwater is presented in the 2024 Comprehensive Annual Groundwater Monitoring Report (Appendix B of this PRR). In Section 7.0 of the 2023 Comprehensive Annual Groundwater Report, it was stated that an attempt will be made to re-establish the elevations of the Buffalo River staff gauges 1&2. In March 2025, Roux checked the elevations of the staff gauges. It was verified that the staff gauge datum is correct and the elevation discrepancies described in the 2023 Groundwater Monitoring Report were due measurements being taken at the incorrect location along the sheet piling wall of the river.

3.2.2 *Area II Groundwater Summary*

Apart from a detection of benzene slightly above GWQSs at well A2-MW-16, all compounds were either reported as non-detect or at concentrations below their respective GWQSs. A discussion of the moving average trend analysis for Area I groundwater is presented in the 2024 Comprehensive Annual Groundwater Monitoring Report (Appendix B of this PRR).

3.2.3 *Area III Groundwater Summary*

In general pH was outside the range of the GWQSs at monitoring wells A3-MW-7 & A3-MW-10. Benzene concentrations at monitoring wells A3-MW-7, A3-MW-10 and cyanide concentrations at A3-MW-3 and A3-MW-10 were above GWQSs. All other parameters and monitoring well locations in Area III were either

reported as non-detect or at levels well below their respective GWQSs. A discussion of the moving average trend analysis for Area I groundwater is presented in the 2024 Comprehensive Annual Groundwater Monitoring Report (Appendix B of this PRR).

3.2.3 *Area III ORC Wells Groundwater Summary*

Benzene concentrations detected above the laboratory method detection limit are shown on Tables 8 and 9 (located in Appendix B) with their associated GWQS for comparison. Concentrations exceeding the GWQSs are shaded. Benzene concentrations above the GWQS for the July and December 2024 monitoring events were detected in each ORC well except, A3-ORC-4, A3-ORC-7 & A3-ORC-11. The benzene result was non-detect at A3-ORC-4 during both monitoring events. The benzene concentration at A3-ORC-7 & A3-ORC 11 were below the GQWS during the July 2024 event. During the December 2024 event, the benzene concentration was below the GWQS at A3-ORC-7 and non-detect at A3-ORC-11.

The pH was below the GWQS lower limit of 6.5 at wells A3-ORC- 3 through A3-ORC-11 during both the July and December 2024 monitoring events. The pH was above the GWQS upper limit of 8.5 at well A3-ORC-1 during both July and December 2024 monitoring events. During the December sampling event A3-ORC-2 went dry and no field parameters were collected.

3.3 Soil/Fill Management Plan

A Soil/Fill Management Plan (SFMP) was included in the approved SMPs for each Area of the Site. The SFMP provides guidelines for the management of soil and fill material during any intrusive activities. A brief description of activities performed during the monitoring period that are subject to the SFMP is presented below.

3.3.1 *Area I*

Seven (7) separate intrusive projects were performed on the Area I parcel during the PRR monitoring period (May 1, 2024, through May 1, 2025) with oversight by TRC Companies on behalf of Tesla Inc. The seven site projects include:

- Lot 2, Gate 1 Sidewalk Installation June 19, 2024
- Perimeter Fence Installation (Phase 2) – August 1, 2024
- Fiber Optic Cable (South Park) Installation - September 26, 2024
- East Gate Concrete Swale - October 21-22, 2024
- Digital Display Board Installation - November 7-8, 2024
- Spoils Stockpile & Drilling Mud Waste Characterization -July 9, 2024 & October 1, 2024
- Perimeter Fence Repairs- March 12, 2025

The seven (7) projects performed in Area 1 are described in further detail in Appendix D of this report and include Change of Use Forms, Material Import Request Forms, and additional support documentation.

3.3.2 *Area II*

No activities were performed during the PRR monitoring period that were subject to the SFMP.

3.3.3 *Area III*

A soil/fill pile (approximately 12 cubic yards) was generated in the southwest corner of Area III, along the drainage ditch/property line. The pile was generated during excavation activities performed by the Buffalo & Pittsburgh Railroad, to clean the drainage ditch affected by flooding along the railroad's vehicle service road. A sample of the soil/fill was collected by Roux personnel in September 2023 and submitted to Alpha Laboratories for analysis of TCLP VOCs, TCLP SVOCs, TCLP Metals, PCBs and ICR (Ignitibility, Corrosivity & Reactivity). Results of the sample indicate the material is non-hazardous. A copy of the analytical data is provided in Appendix A2 of this report. Roux personnel installed signage along the drainage ditch stating that no excavation activities are to occur in this area. The NYSDEC requested the material be analyzed for any TENORM impacts. In August 2024 Roux subcontracted with The MJW Companies (a licensed New York State radiologic consultant) to perform a radiological field scan of the soil/fill pile as well as collecting a sample of the material for laboratory analysis. Results of the field scan and laboratory analysis indicate no TENORM impacts within the soil/fill pile. A copy of the MJW report is provided in Appendix A2 of this report. It was agreed with the Department that the soil/fill pile can be transferred to Area I and blended with soil spoils generated during site improvements at the Tesla Facility in 2024. The blended soils will then be used to construct an identification berm along the fiber cable corridor at the Area I Tesla Facility. The construction of the identification berm is tentatively scheduled to begin in June 2025. These activities will be documented in the 2025-2026 PRR.

3.4 Institutional and Engineering Control Requirements

As detailed in the SMPs, several institutional controls (ICs) and engineering controls (ECs) are to be maintained as a requirement of the VCA for the Site.

3.4.1 Institutional Controls

Three Steelfields (aka RiverBend) parcels (Areas I, II, and III) are subject to the following ICs:

- Groundwater-Use Restriction: The use of groundwater for potable and non-potable purposes is prohibited.
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use.
- Soil/Fill Management Plan

Additionally, Areas I, II and III are subject to compliance with the O&M Plans for their respective areas, as described in Section 3.1.

3.4.2 Engineering Controls

Three Steelfields (aka RiverBend) parcels (Areas I, II, and III) are subject to several ECs as indicated by Area below. The existing cover surfaces for these areas are presented in Figure 3. Figure 2 in Appendix D of this PRR presents site improvements in Area I during this monitoring period.

- Area I: Maintain cover system (comprising vegetative soil cover, asphalt, building with concrete floors, exterior concrete pavement, and bioretention swales), perimeter fencing, soil/fill management, existing passive sub-slab depressurization system, and soil vapor intrusion (SVI) evaluation prior to occupancy of new building construction (effective 08/16/2007).

- Area II: Maintain final cover system of containment cell and maintain vegetative cover outside containment cell area until build-out whereupon one foot of clean cover or alternative with a demarcation layer is required; O&M of GWPTS; O&M of containment cell and perimeter fencing; soil/fill management; soil vapor intrusion (SVI) evaluation before on-site building construction or installation of vapor mitigation system during on-site building construction and prior to occupancy (effective 05/21/2008).

- Area III: Maintain vegetative cover (limited area sampling required before build-out, failure to meet Site Specific Action Levels (SSALs) would require one foot of clean cover or alternative with a demarcation layer); O&M of passive groundwater treatment (e.g., ORC) and perimeter fencing; soil/fill management; soil vapor intrusion (SVI) evaluation before on-site building construction or installation of vapor mitigation system during on-site building construction and prior to occupancy (effective 05/21/2008).

3.5 Site Inspection & IC/EC Compliance

On April 29th, 2025, Roux staff performed a Site assessment of Areas I, II, and III, including the former August Feine and Norfolk Southern parcels. The following sections provide a parcel-by-parcel description of the Site assessment and maintenance activities performed. Appendix A includes the completed IC/EC Form for Areas I, II, and III. Appendix E includes a photographic log of the Site.

3.5.1 *Area I*

A 1.2 million square-foot manufacturing building (Tesla) is in service on this site. At the time of April 29th, 2025, inspection and under report to the Certifying Engineer, the passive sub-slab depressurization system (SSDS) in the Tesla Building was inspected. The concrete floors in the area where the SSDS was installed appear to be in good condition with no signs of potential pathways for vapor intrusion. The vertical pipes associated with the SSDS are located within walls with no access points. Roux inspected the SSDS vent pipes that penetrate the roof to find that the vent pipes are free of obstructions and appear to be working as intended. The cover system on Area I was inspected by Roux on April 29th , 2025. As stated in section 3.3.1 of this report, seven (7) projects which required disturbances to the cover system were performed during this PRR monitoring period. At the time of the inspection, minimal vegetative disturbances were observed in various grass areas due to winter snow plowing activities and will require additional seeding. The area where the electrical conduit was installed for the Digital Display Board Installation will require

grass seed. In general, the Area I cover system is complaint with IC/ECs and the cover disturbances described will be resolved this year as part of the Site Improvements. Additionally, Roux inspected the banks along the Buffalo River and found no erosional issues. No observable use of groundwater was noted during the monitoring period.

3.5.2 *Area II*

At the time of the April 29th, 2025, inspection, Area II, the containment cell was in compliance with the IC/ECs. The cover system on the containment cell is in place and does not require maintenance. The pump stations and GWPTS upgrades are complete as described in section 3.1.2 of this report, with the pre-treatment system operating as designed. No observable use of groundwater was noted during the monitoring period.

3.5.3 *Area III*

At the time of the April 29th, 2025 inspection, Area III was vacant and in compliance with the IC/ECs. No observable use of groundwater was noted during the monitoring period. The soil/fill pile is described in Section 3.3.3 of this report.

3.5.4 *Former August Feine Parcel*

At the time of the April 29th, 2025, inspection, the former August Feine parcel was vacant. There are no IC/ECs associated with this parcel; therefore, this parcel is not included on the IC/EC Form.

3.5.4 *Former Norfolk Southern Parcel*

At the time of the April 29th, 2025, inspection, the former Norfolk Southern parcel was developed as additional parking for the Tesla Facility (referred to as the East Parking Lot Expansion Construction). This property, though relevant and proximate to the Steelfields (aka RiverBend) Site, is not under any NYSDEC program or subject to a SMP under the Steelfields (aka RiverBend) VCA, but is owned by FSMC.

There are no IC/ECs associated with this parcel; therefore, this parcel is not included on the IC/EC Form.

3.6 Abby & Baraga Streets Surface Drainage System

Although not a component of the Area II SMP, Roux personnel perform a monthly inspection of the drainage system including the Baraga Street manhole due to historic blockages in the system resulting in past complaints of ponding water along Abby Street. As requested by the NYSDEC, the surface drainage system background and monthly assessment results are provided below.

3.6.1 Background

The surface drainage system for the Steelfields (aka RiverBend) Site was installed to mitigate breakout of calcium-rich surface water resulting from the underlying slag and lime materials in the vicinity of the berm along Abby Street. Since 1998, the drainage system has functioned as intended, but has required periodic maintenance and repair to remedy clogs due to calcium and sediment build-up and occasional damage from heavy snow removal equipment. The surface drainage system required repair and modification due

to significant damage to the Berm from South Park to Baraga Street caused by vehicle rutting, particularly in the Abby Street drain vicinity, which prevented the system from functioning as intended. In May 2014, TurnKey Environmental Restoration, LLC performed repairs and modifications to the original Abby Street drainage system to restore function and to allow the system to be more efficient. The modified Abby Street drainage system configuration is presented in Figure 4. Both the Berm and drainage system are inspected monthly.

3.6.2 Monthly Drainage System Inspections and Maintenance

During the PRR reporting period (May 1, 2023, through May 1, 2024), the surface drain was out of service from July 2023 through March 2024 due to new municipal waterlines being installed by the City of Buffalo along Abby and Baraga Streets. Excavation activities associated with installing the waterlines damaged the surface drainage cleanouts. In March 2024, repairs were made to the cleanouts by the City of Buffalo's designated contractor and the surface drain was returned to service. The work activities occurred outside of the VCP boundary. During the current PRR reporting period (May 1, 2024, through May 1, 2025), monthly inspections of the surface drain were conducted, and no issues were identified.

4. Conclusions and Recommendations

At the time of the inspection, site improvements as described in Section 3.5.1 of this report are completed in Area I of the Steelfields (aka RiverBend) parcel. Support documentation including Change of Use & Import Material Request Forms for the site improvements are provided in Appendix D of this report. The GWPTS (Area II) electrical upgrades are complete. The Site was in compliance with all IC/ECs. No modifications to the OM&M procedures are recommended at this time.

5. Declaration/Limitation

Roux Environmental Engineering & Geology D.P.C, personnel conducted the annual site inspections for Steelfields (aka Riverbend) Voluntary Cleanup Program Site No. V00619, located in Buffalo, New York, according to generally accepted practices. This report complies with the scope of work provided to FSMC by Roux Environmental Engineering &Geology D.P.C.

This report has been prepared for the exclusive use of Fort Schuyler Management Corporation. 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 Fort Schuyler Management Corporation. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission by Roux Environmental Engineering &Geology D.P.C.

References

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.
2. *Construction Closeout Report for Area I (former Republic (LTV) Steel Parcel), Steelfields Site, Buffalo, NY (NYSDEC Site # V00619-9),* dated March 2004, Revised April 2007, prepared by TurnKey Environmental Restoration, LLC and Benchmark Environmental Engineering and Science, PLLC
3. *Final Engineering Report for Areas II & III, Former Donner-Hanna Coke Plant and Republic (LTV) Steel Properties, Steelfields Site Buffalo, NY (NYSDEC Site #V00133-9), Appendix GG and HH,* dated May 2008, prepared by Malcolm Pirnie.
4. *Construction Completion Report, RiverBend Area I, Voluntary Cleanup Program, VCP Site No. V00619-1, Buffalo New York.* Prepared by TurnKey Environmental Restoration, PLLC. April 2018.
5. *Site Management Plan For Area I (Former Republic (LTV) Steel Parcel), Steelfields Site Buffalo, NY (NYSDEC Site #V00133-9),* prepared by TurnKey Environmental Restoration, LLC in April 2007, revised by TurnKey Environmental Restoration, LLC in August 2016, and revised by Barton and Loguidice DPC in September 2021
6. *Site Management Plan For Area II (Former Donner-Hanna Coke Plant Parcel), Steelfields Site Buffalo, NY (NYSDEC Site #V00133-9),* prepared by Modern Corporations in October 2007, revised by Malcolm Pirnie in March 2008, and revised by Barton and Loguidice DPC in September 2021
7. *Site Management Plan For Area III (Former Republic (LTV) Warehouse Parcel), Steelfields Site Buffalo, NY (NYSDEC Site #V00133-9),* prepared by Modern Corporations in October 2007, revised by Malcolm Pirnie in March 2008, and revised by Barton and Loguidice DPC in September 2021

FIGURES

Reference: Image by USGS BUFFALO 2023 SE QUADRANGLE

QUADRANGLE LOCATION

N

3000' 0' 3000' 6000'

SCALE: 1 INCH = 3000 FEET
SCALE IN FEET
(approximate)

Title:

SITE VICINITY AND LOCATION MAP
PERIODIC REVIEW REPORT

STEELFIELDS (AKA RIVERBEND) SITE
BUFFALO, NEW YORK

Prepared for:
FORT SCHUYLER MANAGEMENT CORPORATION

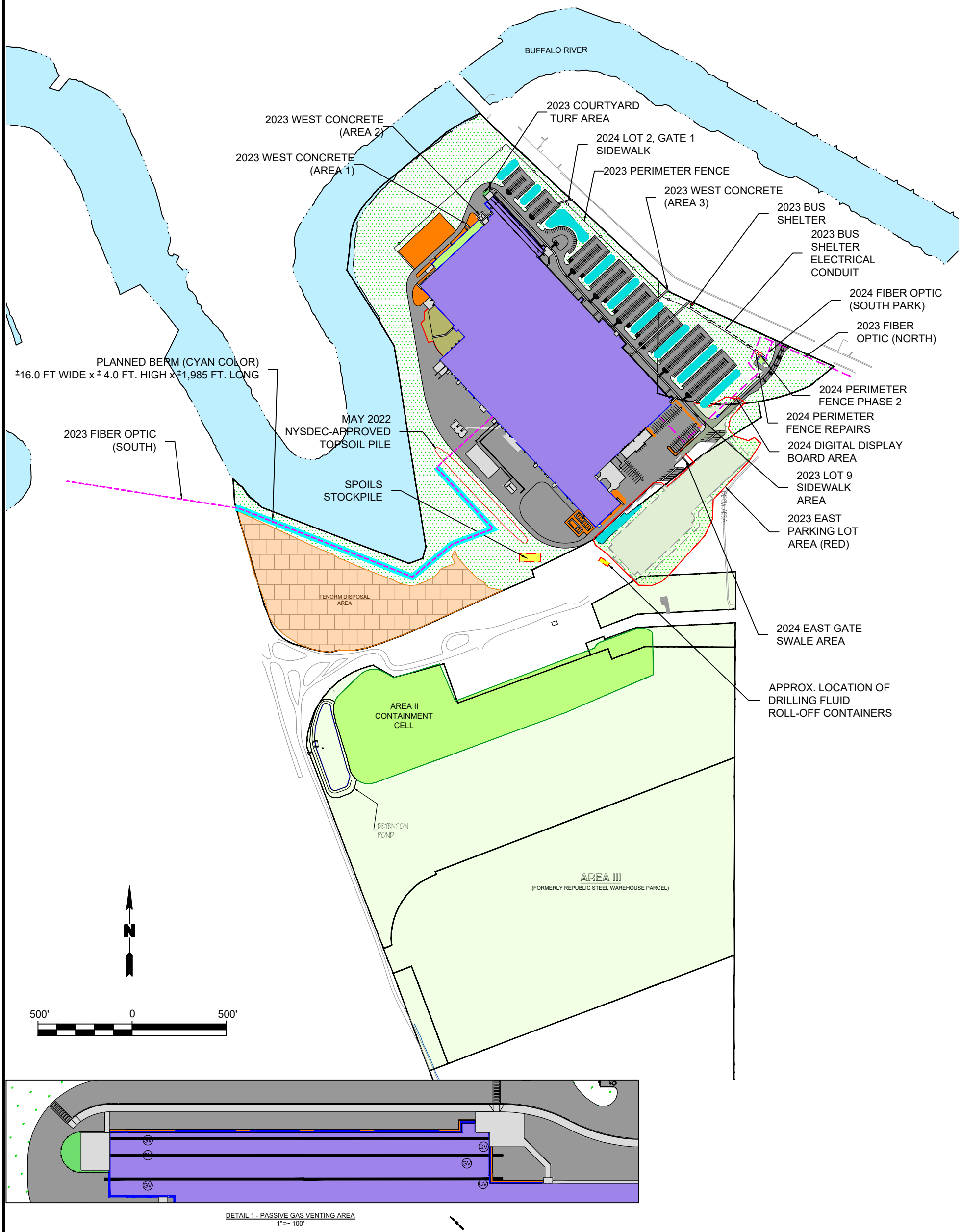
ROUX

Compiled by: RFL	Date: APRIL 2024	FIGURE
Prepared by: RFL	Scale: AS SHOWN	1
Project Mgr: THF	Project: 4334.00001B000	
File: FIGURE 1; SITE VICINITY AND LOCATION MAP_2024.DWG		

F:\CAD\BENCHMARK\FORT SCHUYLER\PRR\2024\FIGURE 1; SITE VICINITY AND LOCATION MAP_2024.DWG

LEGEND:
PROPERTY BOUNDARY OF AREAS I, II, & III
APPROX. TAR & BLUE SOIL/FILL EXCAVATION LIMITS
A1-MW-2 NETWORK MONITORING WELL
A1-MW-7 NETWORK MONITORING WELL (WATER LEVEL ONLY)
A1-MW-M2 NON-NETWORK MONITORING WELL
A3-ORC-1 ORC SOCK WELL
PS1 GROUNDWATER COLLECTION PUMP STATION
SG-01 BUFFALO RIVER STAFF GAUGE LOCATION
A4-MW-SR OFF-SITE MONITORING WELL
A1-P-3 DECOMMISSIONED/ABANDONED MONITORING WELL
SLURRY WALL (AS-BUILT)
GROUNDWATER COLLECTION TRENCH (AS-BUILT)
GROUNDWATER TREATMENT FORCEMAIN (AS-BUILT)
EXISTING 48" CONCRETE PIPE (FMR. MANHOLES SHOWN)
LIMITS OF CONTAINMENT CELL
SOIL FLUSHING SYSTEM: 4" PERF. HDPE PIPE (INVERT ELEVATIONS SHOWN)
SOIL FLUSHING SYSTEM: 4" SOLID HDPE PIPE
SOIL FLUSHING SYSTEM: 2" SOLID HDPE FORCEMAIN
FORCEMAIN & SOIL FLUSHING SYSTEM FLOW DIRECTION
FENCE (ON-SITE)
BUILDING
STONE-LINED BIORETENTION AREA
TENORM VARIANCE AREA
1341 SOUTH PARK
SBL 122.20-1-3.1
(APPROXIMATELY 8 ACRES)
FMR. NORFOLK SOUTHERN PROPERTY
0 ABBY
SBL 122.20-1-23.12
(APPROXIMATELY 24 ACRES)
312 ABBY
SBL 122.20-1-5.1
(APPROXIMATELY 3 ACRES)
321 BARGE CANAL
SBL 122.20-1-1
(APPROXIMATELY 2 ACRES)
AREA I
(FORMERLY REPUBLIC STEEL PLANT PARCEL)
(APPROXIMATELY 90 ACRES)
1339 SOUTH PARK
SBL 122.16-1-8.1
(APPROXIMATELY 81 ACRES)
AREA II
(FORMERLY DONNER-HANNA COKE PLANT PARCEL)
(APPROXIMATELY 50 ACRES)
310 ABBY
SBL 132.08-1-6
(APPROXIMATELY 45 ACRES)
AREA III
(FORMERLY REPUBLIC STEEL WAREHOUSE PARCEL)
(APPROXIMATELY 42 ACRES)
308 ABBY
SBL 132.08-1-7
(APPROXIMATELY 41 ACRES)
0 TIFFT
SBL 132.12-1-9.11
(APPROXIMATELY 1 ACRE)
FMR. AUGUST FENE & SONS CO.
(APPROXIMATELY 4 ACRES)
SOUTH PARK AVE
(ABBOTT RD)
NEW ABBY ST
AMUSA ST
O CONNOR AVE
BEACON ST
BELL ST
BURT ST
RUTLNG BLVD
PROSPECT ST
ABBY ST
(66' WIDE)
(60' WIDE)
(50' WIDE)
(80' WIDE)
A1-MW-7
A1-MW-8R
A1-MW-8
A1-P-4
A1-MW-10
A1-P-3
A1-MW-3
A1-MW-5
A1-MW-1
A1-MW-2
A1-MW-6
A1-P-2
A1-MW-9
A1-MW-11
A1-MW-M2
A1-MW-4
A1-MW-4R
SG-02
SG-03
A2-MW-17
A2-MW-16
A2-MW-4
A2-MW-13
A2-MW-12
A2-MW-3
A2-MW-1
A2-MW-14
A2-MW-15
A2-MW-10R
A2-MW-2
A2-MW-21R
A2-MW-19
A2-MW-7
A2-MW-6
A2-MW-8
A2-MW-5
A2-MW-4R
A3-MW-5
A3-MW-3
A3-ORC-1
A3-ORC-2
A3-ORC-3
A3-ORC-5
A3-ORC-4
A3-ORC-6
A3-ORC-7
A3-ORC-8
A3-ORC-9
A3-ORC-10
A3-ORC-11
A3-MW-6
A3-MW-10
A3-MW-11
A4-MW-SR
A4-MW-SR
A4-MW-SR

F:\CAD\BENCHMARK\FORT SCHUYLER\PRR\2024\FIGURE 3; SITE COVER PLANTRC AND ROUX.DWG



DETAIL 1 - PASSIVE GAS VENTING AREA
1"=~ 100'

LEGEND:

- PROPERTY BOUNDARY OF AREAS I, II, & III
- STEELFIELDS (AKA RIVERBEND) SITE BUILDING
- 115-34.5 kV ELECTRIC SUB-STATION
- STONE-LINED BIORETENTION AREA
- A. GREEN SPACE COVER
- B. ASPHALT COVER
- B. ASPHALT COVER INSTALLED IN 2021
- C. CONCRETE SLAB ON-GRADE BUILDING COVER
- D. EXTERIOR CONCRETE COVER
- E. DRIP STONE, NO. 1 STONE, & NO. 2 CRUSHER RUN STONE COVER
- F. BIO-RETENTION COVER
- G. SYNTHETIC TURF COVER
- H. AREA II CONTAINMENT CELL - GEOSYNTHETIC & SOIL COVER

NOTES:
1. AREA 1 COVER SYSTEM DEPICTION AND NOTES FROM DRAWING PROVIDED BY TRC.

Title:

EXISTING COVER AND SUB-SLAB DEPRESSURIZATION SYSTEM PERIODIC REVIEW REPORT

STEELFIELDS (AKA RIVERBEND) SITE
BUFFALO, NEW YORK

Prepared for
FORT SCHUYLER MANAGEMENT CORPORATION

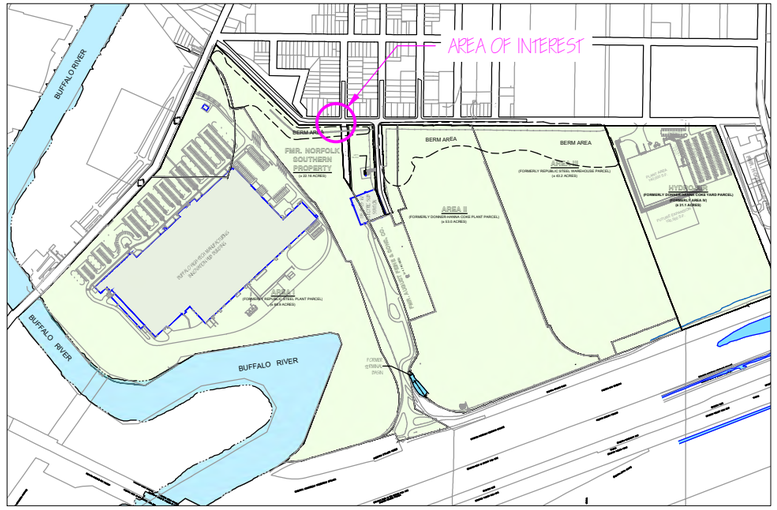
ROUX

Compiled by: RFL	Date: AUGUST 2024	FIGURE
Prepared by: RD	Scale: AS SHOWN	3
Project Mgr: THF	Project: 4334.00001B000	
File: FIGURE 3; SITE COVER PLANTRC AND ROUX.DWG		

F:\CAD\TurnKey\Riverbend (formerly Steelfields)\PRR\2023 - May 1, 2022 through May 1, 2023\Figure 4; Abby Street Drain Site Sketch (2018).dwg, 5/19/2023 12:36:19 PM

SITE PLAN:

SCALE (APPROX.): 1" = 1200'



ABBY-EAST DRAIN
(4-INCH PERFORATED/CORRUGATED)

ABBY-SECONDARY RELIEF DRAIN
(6-INCH PERFORATED/CORRUGATED)

O'CONNER STREET MANHOLE

O'CONNER ST.

ABBY ST. (66' R.O.W.)

DI

DI

DI

STOP

STOP

CLEAN-OUT

CLEAN-OUT

CLEAN-OUT

18" PVC

BARAGA STREET MANHOLE

M.H. (PAVED OVER)

EXIST. 6" V.T.

ABBY-WEST DRAIN
(6-INCH PERFORATED/CORRUGATED)

ABBY-MAIN DRAIN
(FORMERLY ABBY-WEST)
(6-INCH PERFORATED/CORRUGATED)

ABBY-MAIN FINGER DRAIN
(6-INCH RIGID PERFORATED/CORRUGATED)

BARAGA ST. DRAIN
(6-INCH PERFORATED/CORRUGATED)

ABBY-MAIN DRAIN
(6-INCH PERFORATED/CORRUGATED)

CLEAN-OUT

R ST. (PAPER)

LEGEND:

- EDGE OF PAVEMENT (ABBY STREET)
- NEW ABBY STREET DRAIN LINES
- EXISTING ABBY STREET DRAIN LINES
- SANITARY SEWER LINES (APPROX.)
- WATER LINES (APPROX.)
- GAS LINES (APPROX.)
- MANHOLE
- DI DROP INLET

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: MAY 2018
DRAFTED BY: BCH-CMC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0322-022-001

ABBEY STREET DRAINAGE SYSTEM SITE SKETCH

PERIODIC REVIEW REPORT

RIVERBEND SITE
BUFFALO, NEW YORK

PREPARED FOR
FORT SCHUYLER MANAGEMENT CORPORATION

FIGURE 4

APPENDIX A

SITE INSPECTION (IC/EC) FORM
INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

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

Site Details **Box 1**

Site No. **V00619**

Site Name Steelfields (aka Riverbend)

Site Address: 312 Abby Street Zip Code: 14220
City/Town: Buffalo
County: Erie
Site Acreage: 182.000

Reporting Period: May 01, ~~2024~~ 2023 to May 01, 2025

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	X	
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		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? 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

SITE NO. V00619 Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
122.16-1-8.1	Fort Schuyler Management Corporation	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan O&M Plan

Area I: Maintain cover, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (8/16/07)

122.20-1-21	Fort Schuyler Management Corporation	Monitoring Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction O&M Plan

Area II: Maintain vegetative cover until buildout whereupon one foot of clean cover or alternative with a demarcation layer is required, O&M of groundwater pre-treatment plant, O&M of containment cell, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (5/21/08)

122.20-1-3.1	Fort Schuyler Management Corporation	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan O&M Plan

Area I: Maintain cover, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (8/16/07)

122.20-1-5.1	Fort Schuyler Management Corporation	Monitoring Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction O&M Plan

Area II: Maintain vegetative cover until buildout whereupon one foot of clean cover or alternative with a demarcation layer is required, O&M of groundwater pre-treatment plant, O&M of containment cell, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (5/21/08)

132.08-1-6	Fort Schuyler Management Corporation	O&M Plan Ground Water Use Restriction

Soil Management Plan
Landuse Restriction
Monitoring Plan

Area II: maintain vegetative cover until buildout whereupon one foot of clean cover or alternative with a demarcation layer is required, O&M of groundwater pre-treatment plant, O&M of containment cell, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (5/21/08)

132.08-1-7 Fort Schuyler Management Corp.

Monitoring Plan
Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
O&M Plan

Area III: Maintain vegetative cover (limited area sampling required before buildout, failure to meet SSALs would require one foot of clean cover or alternative with a demarcation layer), O&M of passive groundwater treatment, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (5/21/08)

132.12-1-9.11 Fort Schuyler Management Corp.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
O&M Plan

Monitoring Plan

Area III: Maintain vegetative cover (limited area sampling required before buildout, failure to meet SSALs would require one foot of clean cover or alternative with a demarcation layer), O&M of passive groundwater treatment, land use restriction, fencing, groundwater use prohibition, soil/fill management, SVI evaluation or installation of vapor mitigation system before buildout. (5/21/08)

Box 4

Description of Engineering Controls

Parcel	Engineering Control
122.16-1-8.1	Cover System Fencing/Access Control Vapor Mitigation
Passive Gas Venting System installed in northwestern corner of onsite building.	
122.20-1-21	Groundwater Treatment System Cover System Groundwater Containment Leachate Collection Fencing/Access Control
122.20-1-3.1	Cover System Fencing/Access Control
122.20-1-5.1	Groundwater Treatment System Cover System Fencing/Access Control
132.08-1-6	Groundwater Treatment System Cover System

Parcel	Engineering Control
	Groundwater Containment Leachate Collection Fencing/Access Control
132.08-1-7	Cover System Fencing/Access Control
132.12-1-9.11	Cover System Fencing/Access Control

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
✗	

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
✗	

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. V00619

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 Scott Bateman (print name) at Fort Schuyler Management Corporation (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

5/12/25
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 Forbes at Wendel 2558 Hamburg Turpk 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

5-21-25
Date

APPENDIX A2

ENVIRONMENTAL INSPECTION FORMS
&
AREA III STOCKPILE ANALYTICAL DATA

AREA-I

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Name: RiverBend Site Area-I Project No.: 4334.0001B000

Client: Fort Schuyler Management Corporation

Property Address: 1339 South Park Ave City, State: Zip Code:

Property ID: (Tax Assessment Map) Section: Block: Lot(s):

Preparer's Name: Rick Dubisz Date/Time: 4/29/25 0930

CERTIFICATION

The results of this inspection were discussed with the owner and/or owner's representative. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Actions Form has been completed. Proper implementation of these corrective actions have been discussed with the owner, agreed upon, and scheduled.

Preparer / Inspector: Rick Dubisz **Date:** 4/29/25

Signature:

Next Scheduled Inspection (date): May 2026

Final Surface Cover / Vegatation

In accordance with the Soil/Fill Management Plan, vegetative or other (eg. Asphalt, buildings, concrete) surface coverage over the entire redeveloped parcel is required by the developer or owner as a pre-condition of occupancy. The following documents the condition of the above.

1. Final Cover is in Place and in good condition?	☑ yes	☐ no	☐ N/A
Cover consists of (mainly): Building, asphalt, concrete and grass cover			
2. Evidence of erosion?	☐ yes	☑ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☑ no	☐ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☑ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☑ yes	☐ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐ yes	☑ no	☐ N/A
7. Damage to any surface coverage?	☐ yes	☑ no	☐ N/A

If yes to any question above, please provide more information below.

Some areas of disturbed vegetation due to winter plowing activities. - Soil cover remains intact.

AREA-I

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Security & Access

In accordance with the Soil/Fill Management Plan, fencing is required to restrict access in all undeveloped areas and as necessary in redeveloped areas. In addition, all fencing around undeveloped areas will be posted with "No Trespassing" signs.

1. Is access controlled by perimeter fencing?	☑ yes	☐ no	☐ N/A
If not, please note:			
2. Is fencing in need of repair?	☐ yes	☑ no	☐ N/A
3. Area access gates in working order?	☑ yes	☐ no	☐ N/A
4. Suffecient signage posted (No Trespassing)?	☑ yes	☐ no	☐ N/A
5. Has there been any noted or reported trespassing?	☐ yes	☑ no	☐ N/A

Please note any irregularities/ changes in site access and security:

Property Use Changes / Site Development

Has the property usage changed, or site been redeveloped since the last inspection?

☑ yes ☐ no ☐ N/A

If so, please list with date: Perimeter Fence- 8/1/24
Fiber optic South- 9/2024
EASI Gate Concrete Swale- 10/11/24
Digital Display Board- 11/7/24
Perimeter Fence Repairs- 3/12/25

This space for Notes and Comments – changes updated in Appendix D of PMP

Please include the following Attachments:

1. Site Sketch
2. Photographs See Appendix D of PMP

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Name: Riverbend Site - Area II **Project No.:** 4334.0001B000

Client: FSMC

Property Address: 310 Abby Street **City, State:** Buffalo, NY **Zip Code:** 14210

Property ID: (Tax Assessment Map) **Section:** **Block:** **Lot(s):**

Preparer's Name: Rick Dubisz **Date/Time:** 4/29/25 1030

CERTIFICATION

The results of this inspection were discussed with the owner and/or owner's representative. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Actions Form has been completed. Proper implementation of these corrective actions have been discussed with the owner, agreed upon, and scheduled.

Preparer / Inspector: Rick Dubisz **Date:** 4/29/25

Signature:

Next Scheduled Inspection (date): MAY 2026

FINAL SURFACE COVER / VEGETATION

In accordance with the Soil/Fill Management Plan, a one-foot soil cover w/ a demarcation layer over the entire 34-acre southern portion of Area II, outside the containment cell area is required by the developer or owner as a pre-condition of occupancy. The following documents the condition of the above cover system, if in place.

1. Final Cover is in Place and in good condition?	☒ yes	☐ no	☐ N/A
Cover consists of (soil, gravel, vegetation, etc.):			
2. Evidence of erosion?	☐ yes	☒ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☐ no	■ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☒ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	☒ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐ yes	☒ no	☐ N/A
7. Damage to any surface coverage?	☐ yes	☒ no	☐ N/A

If yes to any question above, please provide more information below.

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

CONTAINMENT CELL COVER SYSTEM

In accordance with Section 2.3 of the Site Management Plan, the owner/developer of the site is required to complete the following checklist.

1. Integrity of Containment Cell Cover System	☑	acceptable	☐	not acceptable	
Areas of Concern:					
2. Erosion damage?	☐	yes	☑	no	☐ N/A
3. Seepage breakouts?	☐	yes	☑	no	☐ N/A
4. Cracking of soil cover?	☐	yes	☑	no	☐ N/A
5. Gas vent or monitoring well damage?	☐	yes	☑	no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐	yes	☑	no	☐ N/A
7. Integrity of slope and drainage swales?	☐	yes	☑	no	☐ N/A
8. Animal burrows?	☐	yes	☑	no	☐ N/A

If yes to any question above, please provide more information below.

GROUNDWATER COLLECTION SYSTEM

1. Are the pumps currently operating at Pump Station Manholes and record depth to water.					
Pump Station No. 1	☑	yes	☐	no	9 feet
Pump Station No. 2	☑	yes	☐	no	7.5 feet
Pump Station No. 3	☑	yes	☐	no	6.6 feet
2. Any visible signs of damage/leakage to conveyance pipes?	☐	yes	☑	no	
3. If Pump is not operating at time of inspection, can pump be manually activated?					
Pump Station No. 1	☐	yes	☐	no	
Pump Station No. 2	☐	yes	☐	no	
Pump Station No. 3	☐	yes	☐	no	
4. Is pump station manhole hatch shut, latched, and locked?					
Pump Station No. 1	☑	yes	☐	no	
Pump Station No. 2	☑	yes	☐	no	
Pump Station No. 3	☑	yes	☐	no	

5. Note any visible problems with manhole or control panel at time of inspection.

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

SOIL FLUSHING SYSTEM

1. Record the ball valve position inside each soil flushing manhole.

Pump Station No. 1	☐	closed	☐	1/4 open	☑	1/2 open	☐	3/4 open	☐	full
Pump Station No. 2	☐	closed	☐	1/4 open	☑	1/2 open	☐	3/4 open	☐	full
Pump Station No. 3	☐	closed	☐	1/4 open	☑	1/2 open	☐	3/4 open	☐	full

2. Any visible signs of damage/leakage to conveyance pipes? ☐ yes ☑ no

3. Note any visible problems with manhole, frame, or cover.

GROUNDWATER PRE-TREATMENT FACILITY

1. Is access controlled by perimeter fencing?	☑	yes	☐	no	☐	N/A
If not, please note:						
2. Is fencing in need of repair?	☐	yes	☑	no	☐	N/A
3. Area access gates in working order?	☑	yes	☐	no	☐	N/A
4. Is Building in need of any maintenance or repair?	☐	yes	☑	no	☐	N/A
If not, please note:						

STORM WATER COLLECTION SYSTEM

NA

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

ACTIVE SUB-SLAB DEPRESSURIZATION SYSTEM (ASD)

Prior to any build-out in Areas II or III, a soil vapor intrusion (SVI) evaluation will be performed to assess the presence of intrusive subsurface vapors and, if present, to identify the necessity of installing an active sub-slab depressurization system (ASD).

1. Is there an ASD present on-site?	☐ yes	☐ no	☑ N/A
2. If yes, is it currently operating?	☐ yes	☐ no	☐ N/A
3. Is the ASD annual inspection checklist completed?	☐ yes	☐ no	☐ N/A
4. Is the ASD annual inspection checklist enclosed?	☐ yes	☐ no	☐ N/A

PROPERTY SECURITY & ACCESS

In accordance with the Soil/Fill Management Plan, fencing is required to restrict access in all undeveloped areas and as necessary in redeveloped areas. In addition, all fencing around undeveloped areas will be posted with "No Trespassing" signs.

1. Is access controlled by perimeter fencing?	☑ yes	☐ no	☐ N/A
2. Is fencing in need of repair?	☐ yes	☑ no	☐ N/A
3. Area access gates in working order?	☑ yes	☐ no	☐ N/A
4. Suffecient signage posted (No Trespassing)?	☑ yes	☐ no	☐ N/A
5. Has there been any noted or reported trespassing?	☐ yes	☑ no	☐ N/A

Please note any irregularities / changes in site access and security:

PROPERTY USE CHANGES / SITE DEVELOPMENT

Has the property usage changed, or site been redeveloped since the last inspection?	☐ yes	☑ no	☐ N/A

If so, please list with date:

LONG-TERM GROUNDWATER MONITORING

1. Is there a plan in place and currently being followed?	☑ yes	☐ no	☐ N/A
2. Are the wells currently intact and operational?	☑ yes	☐ no	☐ N/A

When was the most recent sampling event performed? ~~[illegible]~~ July 2024
When was the most recent LTGWM report submitted? MAY 2024
When is the next tentatively scheduled sampling event? July 2025
Observations (as necessary):

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

ABBY STREET SURFACE DRAINAGE SYSTEM

Although Abby Street surface drainage system monitoring is not a requirement of the Area II Site Management Plan, the NYSDEC has requested routine assessment, flushing, and repair (as necessary) in order to maintain proper drainage in this portion of Area II.

1. Is the surface drainage system operating as intended?	[x]	yes	[ ]	no	[ ]	N/A
2. Is there any visible surface drainage along the berm?	[ ]	yes	[x]	no	[ ]	N/A
3. Is there observed flow into the Baraga Street manhole?	[ ]	yes	[x]	no	[ ]	N/A
4. Is there observed flow into the O'Conner Street manhole?	[x]	yes	[ ]	no	[ ]	N/A

When was the most recent assessment/flushing performed?

Results of the most recent assessment/flushing? SURFACE DRAINS were Repaired in the spring OF 2024. NO Flushing performed

Observations (if any):

Corrective Actions (if any):

NEW INFORMATION

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

[ ] yes [✓] no [ ] N/A

Comments:

~~CWTS is currently offline due to an electrical power surge. System is being troubleshooted and repairs are underway.~~

CWTS treatment system upgrades completed in Spring 2025.

ATTACHMENTS (as appropriate):

1. Site Sketch	[ ]	yes	[✓]	no
2. Photographs	[ ]	yes	[✓]	no

AREA - III

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Name: Project No.:

Client: FSMC

Property Address: 308 Abby St City, State: Buffalo NY Zip Code: 14210

Property ID: (Tax Assessment Map) Section: Block: Lot(s):

Preparer's Name: Rick Dubisz Date/Time: 4/29/25 1130

CERTIFICATION

The results of this inspection were discussed with the owner and/or owner's representative. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Actions Form has been completed. Proper implementation of these corrective actions have been discussed with the owner, agreed upon, and scheduled.

Preparer / Inspector: Rick Dubisz **Date:** 4/29/25

Signature:

Next Scheduled Inspection (date): MAY 2026

Final Surface Cover / Vegetation

In accordance with the Soil/Fill Management Plan, a one foot soil cover or other (eg. Asphalt, buildings, concrete) cover is required by the developer or owner as a pre-condition of occupancy. Soil surface samples outside the remediated areas may provide otherwise. The following documents the condition of the above cover if in-place.

1. Final Cover is in Place and in good condition?	☐ yes	☐ no	☑ N/A
Cover consists of (mainly): Site not developed - no cover in-place			
2. Evidence of erosion?	☐ yes	☑ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☐ no	☑ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☑ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	☑ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐ yes	☑ no	☐ N/A
7. Damage to any surface coverage?	☐ yes	☑ no	☐ N/A

If yes to any question above, please provide more information below.

AREA - III

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Security & Access

In accordance with the Soil/Fill Management Plan, fencing is required to restrict access in all undeveloped areas and as necessary in redeveloped areas. In addition, all fencing around undeveloped areas will be posted with "No Trespassing" signs.

1. Is access controlled by perimeter fencing?	☑ yes	☐ no	☐ N/A
If not, please note:			
2. Is fencing in need of repair?	☐ yes	☑ no	☐ N/A
3. Area access gates in working order?	☑ yes	☐ no	☐ N/A
4. Sufficient signage posted (No Trespassing)?	☑ yes	☐ no	☐ N/A
5. Has there been any noted or reported trespassing?	☐ yes	☑ no	☐ N/A

Please note any irregularities/ changes in site access and security: _____

Property Use Changes / Site Development

Has the property usage changed, or site been redeveloped since the last inspection?

☐ yes ☑ no ☐ N/A

If so, please list with date: _____

Active Sub-Slab Depressurization System (ASD) An ASD system may be required by the developer in Area III based on the NYSDOH and NYSDEC review of results of soil vapor intrusion sampling. If required an annual ASD inspection checklist will need to be developed.

Is there an ASD present on-site?

☐ yes ☐ no ☑ N/A

If yes, is it currently operating?

☐ yes ☐ no ☑ N/A

ROUX

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

ORC Well Monitoring and Maintenance

Is there ORC mitigation present on-site?

☑ yes ☐ no ☐ N/A

Are the wells currently intact and operational?

☑ yes ☐ no ☐ N/A

Has regular maintenance and monitoring been documented and enclosed or referenced?

☑ yes ☐ no ☐ N/A

Long-Term Ground Water Monitoring

Is there a plan in place and currently being followed?

☑ yes ☐ no ☐ N/A

Are the wells currently intact and operational?

☑ yes ☐ no ☐ N/A

When was the most recent sampling event report and submittal? Date: December 2024

When is the next projected sampling event? Date: July 2025

New Information

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

☐ yes ☑ no ☐ N/A

Comments:

This space for Notes and Comments

Please include the following Attachments:

1. Site Sketch
2. Photographs

ANALYTICAL REPORT

Lab Number:	L2356532
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVER BEND-SOIL PILE AREA III
Project Number:	B0322-022-002
Report Date:	10/03/23

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

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

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

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2356532-01	SOIL PILE AREA III	SOIL	RIVER BEND-SOUTH BUFFALO	09/22/23 00:00	09/26/23

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

Case Narrative

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

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

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

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

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

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

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

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: 10/03/23

ORGANICS

VOLATILES

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO
Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/30/23 11:58
Analyst: MAG
Percent Solids: 93%
TCLP/SPLP Ext. Date: 09/29/23 08:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	75		70-130
dibromofluoromethane	125		70-130

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/30/23 07:47
Analyst: MAG
TCLP/SPLP Extraction Date: 09/29/23 08:53

Extraction Date: 09/29/23 08:53

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1834420-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	78		70-130
dibromofluoromethane	118		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1834420-3 WG1834420-4								
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	110		100		63-132	10		20
Tetrachloroethene	130		120		70-130	8		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	88		88		70-130	0		20
Benzene	97		93		70-130	4		25
Vinyl chloride	93		88		55-140	6		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	97		93		70-130	4		25
1,4-Dichlorobenzene	100		100		70-130	0		20
2-Butanone	74		83		63-138	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		98		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	77		77		70-130
dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO

Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/02/23 02:05
Analyst: SZ
Percent Solids: 93%
TCLP/SPLP Ext. Date: 09/28/23 05:38

Extraction Method: EPA 3510C
Extraction Date: 09/30/23 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		21-120
Phenol-d6	84		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	78		33-120

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/01/23 19:50
Analyst: SZ
TCLP/SPLP Extraction Date: 09/26/23 15:47

Extraction Method: EPA 3510C
Extraction Date: 09/30/23 08:06

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1834020-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		21-120
Phenol-d6	83		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	78		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1834020-2 WG1834020-3								
Hexachlorobenzene	68		61		40-140	11		30
2,4-Dinitrotoluene	83		74		40-132	11		30
Hexachlorobutadiene	63		56		28-111	12		30
Hexachloroethane	74		65		21-105	13		30
Nitrobenzene	91		77		40-140	17		30
2,4,6-Trichlorophenol	82		75		30-130	9		30
Pentachlorophenol	92		83		9-103	10		30
2-Methylphenol	90		79		30-130	13		30
3-Methylphenol/4-Methylphenol	98		86		30-130	13		30
2,4,5-Trichlorophenol	82		74		30-130	10		30
Pyridine	40		48		10-66	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		81		21-120
Phenol-d6	86		74		10-120
Nitrobenzene-d5	87		75		23-120
2-Fluorobiphenyl	74		66		15-120
2,4,6-Tribromophenol	79		70		10-120
4-Terphenyl-d14	71		64		33-120

PCBS

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO

Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/28/23 12:11
Analyst: MEO
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 09/27/23 13:07
Cleanup Method: EPA 3665A
Cleanup Date: 09/28/20
Cleanup Method: EPA 3660B
Cleanup Date: 09/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.6	4.49	1	A
Aroclor 1221	ND		ug/kg	50.6	5.07	1	A
Aroclor 1232	ND		ug/kg	50.6	10.7	1	A
Aroclor 1242	ND		ug/kg	50.6	6.82	1	A
Aroclor 1248	ND		ug/kg	50.6	7.58	1	A
Aroclor 1254	25.1	J	ug/kg	50.6	5.53	1	B
Aroclor 1260	34.7	J	ug/kg	50.6	9.34	1	B
Aroclor 1262	ND		ug/kg	50.6	6.42	1	A
Aroclor 1268	14.3	J	ug/kg	50.6	5.24	1	B
PCBs, Total	74.1	J	ug/kg	50.6	4.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/28/23 09:30
Analyst: RMP

Extraction Method: EPA 3546
Extraction Date: 09/27/23 12:59
Cleanup Method: EPA 3665A
Cleanup Date: 09/28/20
Cleanup Method: EPA 3660B
Cleanup Date: 09/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1832702-1						
Aroclor 1016	ND		ug/kg	49.1	4.36	A
Aroclor 1221	ND		ug/kg	49.1	4.92	A
Aroclor 1232	ND		ug/kg	49.1	10.4	A
Aroclor 1242	ND		ug/kg	49.1	6.62	A
Aroclor 1248	ND		ug/kg	49.1	7.37	A
Aroclor 1254	ND		ug/kg	49.1	5.37	A
Aroclor 1260	ND		ug/kg	49.1	9.08	A
Aroclor 1262	ND		ug/kg	49.1	6.24	A
Aroclor 1268	ND		ug/kg	49.1	5.09	A
PCBs, Total	ND		ug/kg	49.1	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III

Project Number: B0322-022-002

Lab Number: L2356532

Report Date: 10/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1832702-2 WG1832702-3									
Aroclor 1016	89		86		40-140	3		50	A
Aroclor 1260	79		77		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		74		30-150	A
Decachlorobiphenyl	73		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		76		30-150	B
Decachlorobiphenyl	72		70		30-150	B

METALS

Project Name: RIVER BEND-SOIL PILE AREA III
Lab Number: L2356532
Project Number: B0322-022-002
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO
Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%
TCLP/SPLP Ext. Date: 09/28/23 05:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Barium, TCLP	0.218	J	mg/l	0.500	0.0210	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Lead, TCLP	ND		mg/l	0.500	0.0270	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	09/29/23 16:19	09/30/23 20:20	EPA 7470A	1,7470A	DJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	09/29/23 18:44	09/30/23 12:25	EPA 3015	1,6010D	JMF

Project Name: RIVER BEND-SOIL PILE AREA III **Lab Number:** L2356532

Project Number: B0322-022-002 **Report Date:** 10/03/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1833697-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Barium, TCLP	ND		mg/l	0.500	0.0210	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Lead, TCLP	ND		mg/l	0.500	0.0270	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	09/29/23 18:44	09/30/23 12:10	1,6010D	JMF

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 09/25/23 15:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1833698-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	09/29/23 16:19	09/30/23 20:13	1,7470A	DJR

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 09/25/23 15:17

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III

Project Number: B0322-022-002

Lab Number: L2356532

Report Date: 10/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1833697-2								
Arsenic, TCLP	96		-		75-125	-		20
Barium, TCLP	98		-		75-125	-		20
Cadmium, TCLP	93		-		75-125	-		20
Chromium, TCLP	95		-		75-125	-		20
Lead, TCLP	92		-		75-125	-		20
Selenium, TCLP	100		-		75-125	-		20
Silver, TCLP	96		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1833698-2								
Mercury, TCLP	96		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 III	QC Batch ID: WG1833697-3		QC Sample: L2356532-01		Client ID: SOIL PILE AREA							
Arsenic, TCLP	ND	1.2	1.20	100		-	-		75-125	-		20
Barium, TCLP	0.218J	20	20.2	101		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.496	94		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.94	97		-	-		75-125	-		20
Lead, TCLP	ND	5.3	5.02	95		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.24	103		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 III	QC Batch ID: WG1833698-3		QC Sample: L2356532-01		Client ID: SOIL PILE AREA							
Mercury, TCLP	ND	0.025	0.0239	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1833697-4 QC Sample: L2356532-01 Client ID: SOIL PILE AREA III						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.218J	0.221J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1833698-4 QC Sample: L2356532-01 Client ID: SOIL PILE AREA III						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO
Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Dry Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	09/29/23 16:41	1,1030	GEF

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002
Lab Number: L2356532
Report Date: 10/03/23

SAMPLE RESULTS

Lab ID: L2356532-01
Client ID: SOIL PILE AREA III
Sample Location: RIVER BEND-SOUTH BUFFALO
Date Collected: 09/22/23 00:00
Date Received: 09/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	09/27/23 11:38	121,2540G	ROI
pH (H)	10.3		SU	-	NA	1	-	09/28/23 20:36	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/30/23 09:47	09/30/23 11:38	125,7.3	JLB
Sulfide, Reactive	79		mg/kg	10	10.	1	09/30/23 09:47	09/30/23 12:01	125,7.3	JLB

Project Name: RIVER BEND-SOIL PILE AREA III **Lab Number:** L2356532

Project Number: B0322-022-002 **Report Date:** 10/03/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1833996-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	09/30/23 09:47	09/30/23 11:28	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1833999-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	09/30/23 09:47	09/30/23 11:54	125,7.3	JLB

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III

Project Number: B0322-022-002

Lab Number: L2356532

Report Date: 10/03/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1833399-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1833996-2								
Cyanide, Reactive	100		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1833999-2								
Sulfide, Reactive	97		-		60-125	-		40

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVER BEND-SOIL PILE AREA III

Project Number: B0322-022-002

Lab Number: L2356532

Report Date: 10/03/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1832606-1 QC Sample: L2356500-01 Client ID: DUP Sample						
Solids, Total	87.3	87.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1833399-2 QC Sample: L2356044-01 Client ID: DUP Sample						
pH	8.18	8.20	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1833996-3 QC Sample: L2356532-01 Client ID: SOIL PILE AREA III						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1833999-3 QC Sample: L2356532-01 Client ID: SOIL PILE AREA III						
Sulfide, Reactive	79	ND	mg/kg	NC		40

Project Name: RIVER BEND-SOIL PILE AREA III
Project Number: B0322-022-002

Lab Number: L2356532
Report Date: 10/03/23

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(*)
L2356532-01A	Vial Large Septa unpreserved (4oz)	A	NA		5.3	Y	Absent		TCLP-EXT-ZHE(14)
L2356532-01B	Vial Large Septa unpreserved (4oz)	A	NA		5.3	Y	Absent		REACTS(14),IGNIT-1030(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2356532-01C	Vial Large Septa unpreserved (4oz)	A	NA		5.3	Y	Absent		REACTS(14),IGNIT-1030(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2356532-01D	Vial Large Septa unpreserved (4oz)	A	NA		5.3	Y	Absent		REACTS(14),IGNIT-1030(14),TS(7),PH-9045(1),NYTCL-8082(365),REACTCN(14)
L2356532-01S	Vial unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-VOA(14)
L2356532-01T	Vial unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-VOA(14)
L2356532-01W	Amber 1000ml unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-8270(14)
L2356532-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2356532-01X9	Tumble Vessel	A	NA		5.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RIVER BEND-SOIL PILE AREA III	**Lab Number:**	L2356532
Project Number:	B0322-022-002	**Report Date:**	10/03/23

REFERENCES

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

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

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

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

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: 9/27/23

ALPHA Job #: L2356532

Client Information

Client: Roux Env Eng & Geo DPC
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-851-0559
Fax:
Email: Rick Dubiel

Project Information

Project Name: River Bend - Soil Pile Area III
Project Location: River Bend - South Buffalo
Project #: B0322-022-002
(Use Project name as Project #) ☑
Project Manager: Rick Dubiel
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:

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	TCLP VOCs	TCLP SVOCs	TCLP Metals	RCRA	Ignitability, Corrosivity, Reactivity	Total Bottle	Sample Specific Comments
56532-01	Soil Pile Area III	9/22/23		Soil	RLO	✓	✓	✓	✓	✓		

Container Type: A A A A A
Preservative: A A A A 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
	9/26/23 1130	Motley	9/26/23 1444
			9/27/23 0120

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)

THE MJW COMPANIES

Radiological Consulting Professionals and Expert Technical Services

Summary Report of Fieldwork for Roux Inc. for Steelfields Site

For survey conducted August 26, 2024

Prepared by:

MJWTS

MJW TECHNICAL SERVICES

15 Hazelwood Dr., Suite 112

Amherst, NY 14228

Introduction

Roux Inc., on behalf of Fort Schuyler, participate in a voluntary cleanup program of the Steelfields property. In the fall of 2022, the owners of the railyard that is adjacent to the property replaced a culvert pipe and generated a pile of waste. During a routine inspection, a NYSDEC representative noticed a pile of slag like material and brought to the attention of a Roux Inc. representative. Roux Inc. and Fort Schuyler reviewed many options for proper approach to safely dispose of the slag like material. Since MJW and Roux Inc. have a continuing relationship in the investigation of these materials, MJW was called and sent an RSS technician to the site.

This investigation was conducted over the course of four hours after MJW was called on site on Monday August 26, 2024. MJW investigated the roughly Two (2) cy3 of material field scans with radiological instrumentation as well as sample gathering for lab analysis at GEL Labs.

Summary of Field Activities

On Monday August 26, 2024, MJW Radiological Control Technician Paul Koch (PK) mobilized to the Steelfields site to support of Roux personnel with the suspected TENORM found between the railyard and fenced off area belonging to Roux. Upon arrival (PK) set up and took background and source measurements with a Ludlum 2241-2 gamma survey meter with a 44-10 2” x 2” NaI detector (background: 6931CPM). PK then spoke with Roux personnel and was shown a small area with potential TENORM in it.

The suspected TENORM area consisted of a small pile, approximately ten feet long and four feet high next to an area of shallow standing water. The pile was formed of a visible slaglike substance overgrown in parts with various weeds. The pile looked to have been undisturbed in some time due to the perfusion of plant growth. (PK) took measurements on the pile using a Ludlum 2241-2 gamma survey meter paired with a 44-10 2”x2” Nal probe.

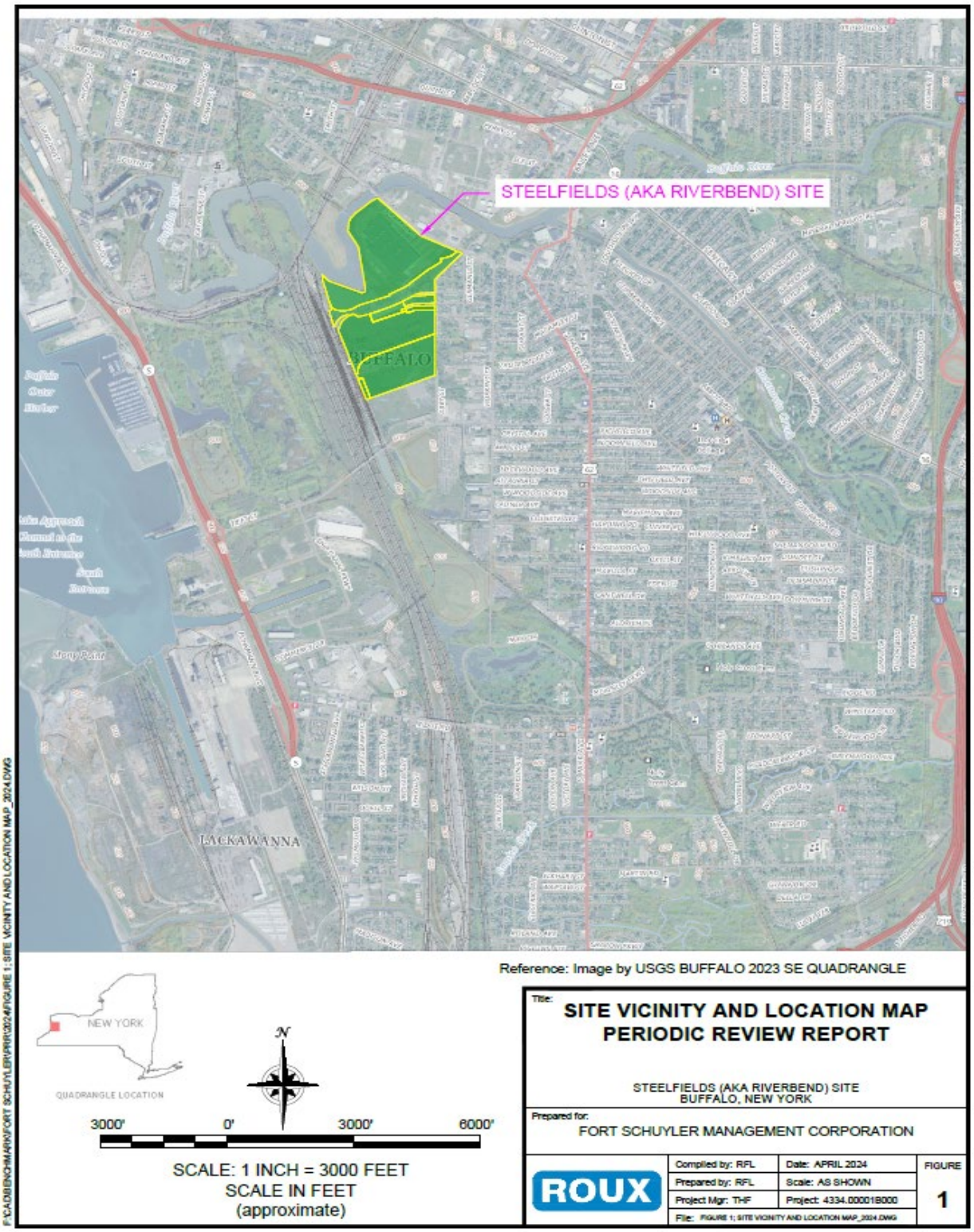
Readings across the pile ranged from (6500 to 8500cpm), with a background of(6931cpm). Dose rates were also taken on the pile at this time with readings showing a dose of (4 to 5uRem). Scaler measurements on the sections showed low level readings with small increases in certain locations, at which point (PK) then proceeded to take multiple samples from the pile for laboratory analysis. MJW will use historical data from WNY Area as a background reference for the sample analysis.

As the suspected TENORM was in a controlled area no further actions were taken at the time. MJW is awaiting further comments from Roux. MJW took samples to send to GEL Labs. MJW included an **Attachment C** of the results for NYSDEC review and approval of appropriate waste facility for the material.

Figures and Photos

Photo 1 Slaglike Material at Steelfields Location

Figure 1: Site Vicinity and Location Map



Attachment A: Field Survey Sheet

Radiological Survey Report Form

Activity: Roux Steelfield

Survey Number: 20240826-001

Survey Date: 8-26-24 Time: 1000 Surveyed By: Paul Tkach

Page: 1 of 1

Instrument/Detector Model #	Inst./Detector Serial #	BGK/units/type		% Eff.	Nuclide	Cal. Due Date
Ludlum 2241-2 / 43-90	262755	1	CPM α	22.4%	Pu-239	08-23-25
Ludlum 3 / 44-9	222619	50	CPM β	21%	Tc-99	01-17-25
Thermo MicroRem	B693G	4	µRem/hr γ	NA	NA	01-02-25
Ludlum 2241-2/44-10	206098/PR112642	6931	CPM γ	20.76%	Cs-137	09-28-25

Area/Material Surveyed	Total (gross cpm)	Total (net cpm)	LAWs (net cpm)		Smear #	Smears (gross cpm)			Smears (dpm/100cm²)			Dose Rate * (µRem/hr)	
	2x2 Readings	2x2 Readings	alpha	beta		alpha	beta	H-3	alpha	beta	H-3	30 cm	1 cm
Pile-pt1	7000	1500										3	4
Pile-pt2	8000	2500										3	4
Pile-Pt3	7500	2000										3	4
Pile-Pt4	6500	1000										3	4
Pile-Pt5	8000	2500										4	5
Pile-Pt6	8000	2500										4	5
Pile-Pt7	7500	2000										3	4
Pile-Pt8	7500	2000										3	4

* = Dose rates include background

Reviewed By (print/signature): Alex Backus

Date: 8/27/24

Attachment B: Daily QC and Calibration Paperwork

Single Channel Scaler Instrumentation Set-Up Sheet

Inst. Model/SN: 2241-2 - 206098
Detector Model/SN: 44-10 - PR112642
High Voltage: NA
Date/Time: 8-26-24/1000

Source Type: thorium
Activity: NA
Source ID: NA
Technician: Paul Koch

Record 10, one-minute background counts:

1 6931
2 6852
3 7013
4 6911
5 6766
6 6809
7 7113
8 6952
9 6900
10 6786

Record 10, one-minute gross source counts:

1 46961
2 47301
3 47425
4 46990
5 47409
6 47531
7 47225
8 47630
9 46864
10 47619

Calculate the average background count:

Avg: 6,903

Calculate the average background count:

Avg: 47,296

Calculate the Background Range +/- 20%*

Low: 5,522
High: 8,284

Calculate the Source Count Range +/- 20%*

Low: 37,837
High: 56,755

* Instrument is analog. Ranges adjusted to nearest whole number detectable per instrument scale.

RSO or designee Review/Date: _____ 8/27/24

Single Channel Scaler Response Test Sheet

Inst. Model/SN: 2241-2 - 206098
Detector Model/SN: PR 112642
High Voltage: N/A

Source Type: thorium
Activity: unknown
Source ID: N/A

Background Range +/- 20%*
Low: 5,522
High: 8,284

Source Count Range +/- 20%*
Low: 37,837
High: 56,755

* Instrument is analog. Ranges adjusted to nearest whole number detectable per instrument scale.

Date	Time	HV +/- 10v	Bkg Count	Gross Source	Battery Check (S/U)	Cal Due Date	Inst. QC (S/U)	Tech
8-26-24	1000	N/A	6931	47,425	S	9-28-25	S	PCK

S = Satisfactory U = Unsatisfactory N/A = Not applicable for this instrument

RSO or designee Review/Date: 8/27/24

Multiscale Set-Up and Response Test Sheet

Inst. Model/SN: MicroRem B693G
Detector Model/SN: N/A
High Voltage: S

Source Type: thorium
Activity: NA
Source ID: NA

Date/Time: 8-26-24 1000
Technician: Paul Koch
Units:

	Scale 1 (x 0.1)		Scale 2 (x 1.0)		Scale 3 (x 10)		Scale 4 (x 100)		Scale 5 (x 1000)	
Background	4		NA		NA		NA		NA	
Background Range +/- 20%	Low	High	Low	High	Low	High	Low	High	Low	High
	3	5								
Source Gross			NA		300		NA		NA	
Source Range +/- 20%	Low	High	Low	High	Low	High	Low	High	Low	High
					200	400				

Response Test

Date	Time	Cal. Due	High Voltage (S/U)	Battery Check (S/U)	BKG	Scale 1 (x 0.1)	Scale 2 (x 1.0)	Scale 3 (x 10)	Scale 4 (x 100)	Scale 5 (x 1000)	Inst. QC (S/U)	Tech Initials
8-26-24	1000	01-02-25	S	S	4uRem	NA	NA	300	NA	NA	S	PCK

S = Satisfactory U = Unsatisfactory N/A = Not applicable for this instrument

RSO or designee Review/Date: 8/27/24

Designer and Manufacturer of Scientific and Industrial Instruments

www.ludlums.com

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
501 Oak Street
325-235-5494
Sweetwater, TX 79556, U.S.A.

ACCREDITED
CERT # 4084.01

Customer MJW CORPORATION ORDER NO. 20479275/562972

Mfg. Ludlum Measurements, Inc. Model 2241-2 Serial No. 206098

Mfg. Ludlum Measurements, Inc. Model 44-10 Serial No. PR112642

Cal. Date 28-Sep-24 Cal Due Date 28-Sep-25 Cal. Interval 1 Year Meterface cpm

Check mark ✓ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 41 % Alt 706.8 mm Hg

☐ New Instrument ☐ Instrument Received ✓ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

✓ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
✓ F/S Resp. ck ☐ Reset ck. ☐ Window Operation
✓ Audio ck. ✓ Alarm Setting ck. ✓ Batt. ck.

✓ Calibrated in accordance with LMI SOP 14.8 ☐ Calibrated in accordance with LMI SOP 14.9

Instrument Volt Set Comments V Input Sens. Comment mV Det. Oper. Comments V at Comment mV Threshold Dial Ratio ___ = ___ mV

COMMENTS:

	Det.1	Det.2
Deadtime:	0µSec	0µSec
Cal Constant:	100e-2	100e-2
Alarm:	50kcpm	50kcpm
Alert:	20kcpm	20kcpm
High Voltage:	900V	900V
Sensitivity:	35mv	35mv
Probe:	44-10	n/a

'Ratemeter Readout' calibration was achieved with no deadtime.

Firmware: P-09-17

OL checked but not set

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.
Multimeter uncertainty within 1.3% of reading. Gamma uncertainty within 5.0% of reading. Neutron uncertainty within 7.0% of reading. Count rate uncertainty within 5.4% of reading

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING
Dig.rate			
Dig.rate			

Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Ratemeter Readout	800K cpm	799 Kcpm	799 Kcpm
	200K cpm	199	199
	80K cpm	79	79
	20K cpm	19.9	19.9
	8K cpm	7.9	7.9
	2K cpm	1.99	1.99
	800 cpm	800 cpm	800 cpm
	200 cpm	200	200
	80 cpm	80	80
	20 cpm	20	20

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Scaler Readout	800K cpm	79962 (6)	79962 (6)
	200K cpm	19954	19954
	80K cpm	7996	7996
	20K cpm	1995	1995
	8K cpm	799	799
	2K cpm	199	199
	800 cpm	80	80
	200 cpm	20	20
	80 cpm	8	8
	20 cpm	2	2

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.
All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors.
Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence using a coverage factor of k=2.
The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323AB-2013

ISO/IEC 17025:2017(E)
State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: Cs-137 S/N: ☐ 059 ☐ 2171CP ☐ 2261CP 720 734 ☐ 781 ☐ 1131 ☐ 1616 ☐ 1696 ☐ 1909 ☐ 1916CP ☐ 2324/2521
☐ 5717CO ☐ 5719CO ☐ 60646 ☐ 70897 ☐ 73410 ☐ E552 ☐ G112 2168CP S-394 ☐ S-1054 ☐ T10081 ☐ T10082 Neutron Am-241 Be ☐ T-304 Ra-226 ☐ Y982
☐ E551 ☐ 5105 ☐ CSV280

☐ Alpha S/N ☐ Beta S/N ☐ Other

✓ m 500 S/N 190566 ☐ Oscilloscope S/N ✓ Multimeter S/N 86250390

Calibrator Jason Flores Title Calibrator Date 28-Sep-24

QC'd By Title Final QC Date 30 Sep 24

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

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Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
501 Oak Street
325-235-5494
Sweetwater, TX 79556, U.S.A.

Bench Test Data For Detector

Detector 44-10 Serial No. PR12642

Customer MJW CORPORATION ORDER NO. 20479275/562972

Counter 2241-2 Serial No. 206098 Counter Input Sensitivity 10 mV

Count Time 60sec. Distance Source to Detector Surface

Other

High Voltage	Background	Isotope Am241 Size ≈0.79uCi	Isotope Size	Isotope Size	Isotope Size
750	781	9682			
800	855	11320			
850	852	11343			
900	868	11329			
950	870	11379			
1000	863	11376			
1050	926	11228			
1100	936	11525			
1150	1223	11623			

Signature Jason Flores Date 28-SEPT-24

• Serving The Nuclear Industry Since 1962 •

Designer and Manufacturer of Scientific and Industrial Instruments

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CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
501 Oak Street
325-235-5494
Sweetwater, TX 79556, U.S.A.

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CERT # 4084.01

Customer MJW TECHNICAL SERVICES ORDER NO. 20460237/549948

Mfg. Bicron Model MICRO REM Serial No. B6936

Mfg. _____ Model _____ Serial No. _____

Cal. Date 2-Jan-24 Cal Due Date 2-Jan-25 Cal. Interval 1 Year Meterface 0-200µrem

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 73 °F RH 23 % Alt 712.0 mm Hg

☐ New Instrument Instrument Received ☑ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☐ F/S Resp. ck ☐ Reset ck. ☐ Window Operation ☐ Geotropism
☐ Audio ck. ☐ Alarm Setting ck. ☑ Batt. ck.
☐ Calibrated in accordance with LMI SOP 14.8 ☑ Calibrated in accordance with LMI SOP 14.9

Instrument Volt Set _____ V Input Sens. _____ mV Det. Oper. _____ V at _____ mV Threshold Dial Ratio _____ = _____ mV

☐ HV Readout (2 points) Ref./Inst. _____ / _____ V Ref./Inst. _____ / _____ V

COMMENTS:

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.
Multimeter uncertainty within 1.3% of reading, Gamma uncertainty within 5.0% of reading, Neutron uncertainty within 7.0% of reading, Count rate uncertainty within 5.4% of reading

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING
x1000	150 mrem/hr	150 mrem/hr	150 mrem/hr
x1000	50 mrem/hr	50	50
x100	15 mrem/hr	148	150
x100	5 mrem/hr	48	50
x10	1500 µrem/hr	148	150
x10	500 µrem/hr	48	50
x1	150 µrem/hr	150	150
x1	100 µrem/hr	100	100
x0.1	15 µrem/hr	18	150
x0.1			

Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Digital Readout			

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Log Scale			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.
All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors.
Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k=2.
The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323AB-2013

ISO/IEC 17025 2017(E)
State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: Cs-137 S/N: ☐ 059 ☐ 2171CP ☐ 2261CP ☐ 720 ☐ 734 ☑ 781 ☑ 1131 ☐ 1616 ☐ 1696 ☐ 1909 ☐ 1916CP ☐ 2324/2521
☐ 5717CO ☐ 5719CO ☐ 60646 ☐ 70897 ☐ 73410 ☐ E552 ☐ G112 ☐ 2168CP ☐ S-394 ☐ S-1054 ☐ T10081 ☐ T10082 Neutron Am-241 Be ☐ T-304 Ra-226 ☐ Y982
☐ E551 ☐ 5105 ☐ CSV280

☐ Alpha S/N _____ ☐ Beta S/N _____ ☑ Other Cs-137 L63C 201µCi

☐ m 500 S/N _____ ☐ Oscilloscope S/N _____ ☐ Multimeter S/N _____

Calibrator Joey Robison Title Calibrator Date 2JAN 24

QC'd By _____ Title Final QC Date 2 Jan 24

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AC Inst. Only ☐ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed: _____

Attachment C: Sample Analysis Results: SDG 683602

Upon review of the lab results from SDG 683602 provided by GEL Laboratories, LLC, MJW compiled table C.1 below. The information found in the table is the pertinent information regarding TENORM analysis; additional information is present in the Electronic Data Deliverable (EDD). An estimated 2 CY of material was in the pile represented in the report and analysis. Table C.1 below provides the analytical data for the samples analyzed.

MJW sent four (4) samples for analysis at GEL Labs in Charleston, South Carolina. Two (2) grab samples of material from different counts/spots on the pile, a field duplicate of one (1) of the grab samples, and one (1) composite sample. All samples were analyzed using EPA 901.1 Gamma Spectroscopy for Ra-226 and parent/daughter isotopes. The grab sample Roux-SF02-082624, its respective field duplicate, and lab duplicate were all additionally analyzed via Alpha spectroscopy for Isotopic Uranium and Isotopic Thorium.

DMM-5 classifies material upon the concentration of Ra-226 in subject material. The subject material of this report is classified as TENORM (Background-comparable) as no sample exceeded the Ra-226 limit of 5.0 pCi/g. Of all samples analyzed, the maximum Ra-226 concentration was 2.15 ± 0.225 pCi/g, with the average of all samples being 1.97 ± 0.2 pCi/g.

Typical background values in Western New York range between 0.85 – 1.10 pCi/g (ORNL/TM-7343,DOE/OR-21949-300 2_1993) and local background samples taken by MJW in the area return similar values; as well as background samples take by the DEC at the 2558 Hamburg Turnpike and 2424 Hamburg Turnpike test pads (Benchmark Turnkey, 0071-022-930).

Given the Background-comparable status of the subject material MJW recommends free release for unregulated disposal. The material may not be utilized in any manner of cover system at disposal locations, but internment of the material will present no concerns for human or environmental health and safety in the immediate or long-term time frames.

Table C.1

Nuclide Information Table										
↓Sample ID[1]							GS[3]		AS[3]	
Sample Concentration (pCi/g) →	[Ac-228]	UNC[2]	[K-40]	UNC	[Ra-226]	UNC	[U-238]	UNC	[U-238]	UNC
Roux-SF comp-082624	0.861	0.337	3.95	0.891	2.15	0.225	U	U	N/A	N/A
Roux-SF01-082624	1.18	0.349	2.63	0.996	1.89	0.277	1.57	1.22	N/A	N/A
Roux-SF01-082624 (683602001DUP)	1.12	0.264	2.85	0.757	1.94	0.2	U	U	N/A	N/A
Roux-SF02-082624	0.949	0.253	2.79	0.588	1.97	0.221	U	U	1.56	0.55
Roux-SF02-082624 DUP	0.669	0.247	2.85	0.692	1.92	0.24	U	U	1.32	0.459
Roux-SF02-082624 (683602002DUP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.28	0.646
Average Concentrations	**0.96**	**0.293**	**3.01**	**0.798**	**1.97**	**0.2**	**1.57**	**1.22**	**1.39**	**0.56**

1. Sample ID - Roux-Sample# (SF1,SF2)(SF comp for composite)-Date of collection-DUP (Field Duplicate)
2. UNC - Counting Uncertainty
3. GS - γ Spec, AS - α Spec
4. U - Unidentified
5. N/A - Not Analyzed

APPENDIX B

COMPREHENSIVE ANNUAL GROUNDWATER MONITORING REPORT

Comprehensive Groundwater Monitoring Report

Steelfields (aka Riverbend) Site)
NYSDEC Site V00619

Areas I, II & III
Buffalo, New York

May 2025
Revised July 2025

Prepared for:

Fort Schuyler Management Corporation
257 Fuller Road
Albany, NY 12203

Prepared by:

Roux Environmental Engineering and Geology, D.P.C.
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 4218

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& Management
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rouxinc.com

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1. Introduction

Roux Environmental Engineering and Geology, D.P.C[1] has prepared this Report, to present the results of the July 2024 groundwater monitoring event conducted at Area I (Former Steel Plant Parcel), Area II (Former Coke Plant Parcel), and Area III (Former Warehouse Parcel) of the Steelfields (aka Riverbend) Site on behalf of Fort Schuyler Management Corporation (FSMC (Site No. V00619) in Buffalo, NY (see Figure 1). This report also includes the results of the July and December 2024 Oxygen Release Compound (ORC) monitoring events for Area III.

The Area I through III groundwater monitoring event was performed from July 22nd, through July 25th, 2024. The Area III first semi-annual ORC monitoring event was performed July 22nd through July 26th, 2024. The Area III second semi-annual ORC event December 18th through December 20th, 2024.

The Long-Term Groundwater Monitoring (LTGWM) network wells are summarized in Table 1 and shown on Figure 2. A summary of field activities and findings for all three areas of the Site are presented below.

Purpose

The activities performed during the current site-wide groundwater monitoring event were performed in general accordance with the following documents:

- Work Plan for LTGWM of Area I (revised September 2002);
- *Work Plan for LTGWM of Areas II and III* (October 2007) submitted as Attachment A4 of Appendix HH of the Final Engineering Report for Areas II and III (May 2008);
- May 5, 2008 Response to NYSDEC comment letter regarding Area III Site Management Plan (comment/responses 8, 9, and 10);
- May 5, 2008 Response to NYSDEC comment letter regarding Areas II and III Final Engineering Report (comment/responses 19 and 22);
- *ORC Maintenance and Monitoring Manual* (March 2008) submitted as Attachment A5 of Appendix HH of the Final Engineering Report for Areas II and III (May 2008); and
- May 5, 2011 NYSDEC Response to Modification Request Letter.

This annual report includes a tabular and/or graphical assessment and detailed discussion of groundwater quality trends on an Area by Area basis. Groundwater flow patterns, however, are discussed on a site-wide basis. Groundwater samples were analyzed for the modified parameter list identified by Area in Table 2.

[1] Formerly Benchmark Civil/Environmental Engineering & Geology, PLLC and TurnKey Environmental Restoration, LLC (Benchmark-TurnKey)

2. Groundwater Elevations & Flow

Depth to water measurements and calculated groundwater elevations measured from eleven (11) monitoring wells and two (2) Buffalo River staff gauges in Area I, seventeen (17) wells in Area II, five (5) monitoring wells and eleven (11) ORC wells in Area III on July 24th , 2024 are summarized in Table 3. The Lake Erie elevation, presented in the table for reference, was obtained from the National Oceanic and Atmospheric Administration/National Ocean Service's (NOAA/NOS) Center for Operational Oceanographic Products and Services (CO-OPS) web page; Great Lakes Water Level Data Inventory for station number 9063020 Buffalo, Lake Erie, New York.

An isopotential map, presented as Figure 3, was prepared using data from the 2024 groundwater elevations, the collection systems as-built invert elevations, and the soil flushing system discharge invert elevations. The baseline isopotential map that was prepared by Geomatrix from the June 1998 groundwater elevations representing groundwater flow conditions at the Site prior to the Area II Containment Cell construction is presented as Figure 4 for contrast. Comparing the July 2024 and June 1998 isopotential maps demonstrate that the groundwater mound located between Areas I and II observed in June 1998 has been significantly reduced and pushed north; replaced instead by a groundwater "sink" created by the groundwater collection system. The groundwater depression observed in June 1998 around the terminal basin is also no longer present due to the discontinuation (in January 2009) of storm water management activities at the Site in that area. The terminal basin has since been backfilled (July 2016) as part of a larger site redevelopment plan. Figure 3 further shows the lowering of the water table of between 2 to 4 feet in the vicinity of the groundwater collection trench as generally predicted in the selected remedial approach groundwater flow model (Geomatrix, December 1998) (see Appendix A).

The containment cell area furthermore shows the five artificial groundwater mounds resulting from the soil flushing system; a remedial measure designed to remediate subsurface soils beneath five areas of concern identified during the Voluntary Cleanup. In general, the flushing system partially diverts groundwater, on a continuous basis, from pump stations PS-1, PS-2, and PS-3 to perforated distribution pipes in the system (shown on Figure 3). These mounds create a unique, yet effective, method to remediate residual impacts in those areas.

The groundwater flow, as depicted on Figure 3, also shows that potentially impacted groundwater from outside the containment cell to the north on the Former August Feine parcel is being drawn back toward the collection system, as predicted by pre-design MODFLOW® modeling. Aside from the significant hydraulic capture of the groundwater collection system in Area II, Site groundwater generally flows north toward the Buffalo River, with minor westerly and southerly components, with a slight local depression in Area III.

3. Groundwater Collection System Evaluation

An evaluation of the slurry wall effectiveness included comparing groundwater elevations from a single well identified as A2-MW-19 and A2-MW-7. Monitoring well A2-MW-19 is located outside the Containment Cell and well A2-MW-7 is located within the Cell as shown in Figure 3. Elevations for the well pair are highlighted light blue on Table 3. It should be noted that at the time of the water level measurements, the pump stations were operated manually due to ongoing electrical communication issues with pumps and treatment building, which may have attributed to the slight mounding observed within the inside wall of the containment cell. Due to intermittent treatment system operation for this monitoring period an outward gradient was observed during the July 2024 sampling event. A chart illustrating this gradient can be seen in Appendix E.

The groundwater collection/containment system appears to be effectively collecting impacted groundwater and controlling groundwater migration within the Area II Containment Cell as well as to the east and north of the Containment Cell. Routine system monitoring and maintenance in conjunction with long-term groundwater monitoring of Areas I and II, as scheduled, is expected to be sufficient to continue to assess the long-term effectiveness of the containment cell.

4. Field Activities & Findings

Area I

Area I field-measured and laboratory analyzed parameters are shown on Table 2, the summarized analytical results of which are presented in Table 4. Compounds detected above method detection limits are shown on the table with their associated concentration and NYSDEC Groundwater Quality Standard (NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998) for comparison. Concentrations exceeding NYSDEC Groundwater Quality Standards (GWQSs) are shaded. All compounds were either reported as non-detect or at concentrations below their respective GWQSs, with the exception of A1-MW-6, which had a concentration of total arsenic slightly above the GWQS and A1-MW-2 which had a pH slightly below the lower limit of 6.5 units. A discussion of the moving average trend analysis for Area I groundwater is presented later in this report.

During the current groundwater monitoring event, field personnel also performed visual immiscible layer surveillance of the Area I monitoring wells, and did not observe any nonaqueous phase liquid (NAPL) in any of the Area I wells listed in Table 1, except well A1-MW-6. From February 2005 to February 2017, a free product skimmer was used to collect accumulated NAPL from well A1-MW-6. Following a significant decline in volume of recoverable product, the passive skimmer was replaced with a dedicated absorbent sock in February 2017, which is to be replaced monthly going forward.

Based on the VOC analytical results of well A1-MW-6, it is apparent that the LNAPL is highly weathered and is having little effect on the groundwater quality at that location. In accordance with the revised LTGWM Plan, the removed absorbent socks were properly containerized in a standard waste container and disposed as nonhazardous solid waste. Well A1-MW-6 purge water was collected and treated through the onsite GWPTS. Based upon the progress to date and the marginal effects on groundwater quality at this location, monthly immiscible layer monitoring, monthly absorbent sock replacement, and annual on-site treatment of collected purge water from well A1-MW-6 should continue in accordance with the revised Area I LTGWM Plan.

Area II

Area II field-measured and laboratory analyzed parameters are shown on Table 2, the summarized analytical results of which are presented in Table 6. Compounds detected above method detection limits are shown on the table with their associated concentration and GWQS for comparison. Apart from a detection of benzene slightly above GWQSs at well A2-MW-16, all compounds were either reported as non-detect or at concentrations below their respective GWQSs. A discussion of the moving average trend analysis for Area II groundwater is presented later in this report.

Area III

Area III field-measured and laboratory analyzed parameters are shown on Table 2, the summarized analytical results of which are presented in Table 7. Compounds detected above method detection limits are shown on the table with their associated concentration and GWQS for comparison. Apart from pH at A3-MW-7, and A3-MW-10, benzene at wells A3-MW-7 and A3-MW-10, and cyanide in wells A3-MW-3 and A3-MW-10, all parameters were either reported as non-detect or at levels well below their respective GWQSs. A discussion of the moving average trend analysis for Area III groundwater is presented later in this report in accordance with NYSDEC-approved procedures.

Area III ORC Wells

ORC wells A3-ORC-1 through A3-ORC-11 are sampled semi-annually and are to be purged until 10 well volumes are removed or to dryness for four consecutive days, whichever occurs first, to obtain representative groundwater samples within the ORC area of Area III. Due to deteriorating weather conditions during the December 2024 monitoring event, the monitoring wells were purged for 3 three consecutive days. A summary of the July 2024 and December 2024 Area III ORC field-measured parameters and analytical results are presented in Table 8 and Table 9. The ORC "socks," suspended in each of the ORC wells are to be replaced when depleted. During the current monitoring event, ORC socks were removed and checked; none of which required replacement.

In addition to Benzene Only analysis, total BETX compounds were collected for the July 2024 sampling event and TCL Volatiles were collected for the December 2024 sampling event. The additional VOC compounds that were collected for both July and December are anomalies that were mainly caused by staffing adjustments at Roux. The additional data for both events has been summarized and is presented in tables 8 and 9. Analysis of the additional compounds still shows that Benzene has continued to be the main contaminant of concern for the ORC wells located in Area III. Toluene and xylene did exceed GWQS at several ORC wells but was not near the concentrations of Benzene in the same wells. Only A3-ORC-9 had a concentration of toluene greater than 1 ppm. To further demonstrate this the Area III wells that are sampled outside the ORC area only have exceedances of Beneze at A3-MW-7 and A3-MW-10.

Benzene concentrations detected above the laboratory method detection limit are shown on both tables with associated GWQS for comparison; concentrations exceeding the GWQSs are shaded. Benzene concentrations above GWQS for the July and December 2024 monitoring events were detected in each ORC well except, A3-ORC-7, A3-ORC-11 and was non-detect at A3-ORC-4 for both monitoring events.

The pH was below the GWQS lower limit of 6.5 at wells A3-ORC- 3 through A3-ORC-11 during both the July and December 2024 monitoring events. The pH was above the GWQS upper limit of 8.5 at well A3-ORC-1 during both July and December 2024 monitoring events. During the July event A3-ORC-2 demonstrated a pH in the acceptable range. However, it went dry during the December monitoring event and no field parameters were collected.

All ORC wells were sampled for alkalinity during both the July and December monitoring events. Alkalinity concentrations detected above laboratory method detection limits are shown on both Tables 8 & 9. Alkalinity does not have an associated GWQS for comparison. Alkalinity was detected at all well locations during the July monitoring event except for A3-ORC-6 & A3-ORC-9 which were non-detect. During the December monitoring event, alkalinity was detected at all well locations except A3-ORC-3, A3-ORC-6 & A3-ORC-9 which were non-detect.

The laboratory analytical data package and field forms for monitoring events are presented in Appendices C and D.

5. Moving Average Trend Analysis (MATA)

In general accordance with the LTGWM Plan for each Area of the Site, parameters exceeding the GWQS for two consecutive events are statistically evaluated. Statistical evaluation for each parameter of interest involves the averaging of four sequential monitoring event concentrations and plotting the moving average and the standard deviation of the measurements of the four-event period. The four (4) event MATA period that is currently being discussed for this report and makes up the trend analysis summary for Table 10 are the June 2021 event through June 2024 event and the MATA summary for the ORC wells is based on the last four (4) sampling events which covers June 2023 to December 2024. The Area by Area four (4) event moving average trend analysis (MATA) as well as the concentration versus time plots for those monitored locations and parameters requiring tracking (as defined above) are presented in Appendix B and summarized in Table 10. The MATA assessment indicates the following:

- **pH:** The concentration versus time and MATA plots for the field measured pH at wells A2-MW-16, A3-MW-7, A3-MW-9, and A3-MW-10 are shown in Attachment 2. The average trend analysis at A2-MW-16 remain slightly below the GWQS. However, during the past two monitoring events, the average trend is increasing towards the acceptable GWQS range. It should be noted the individual pH measurement at A2-MW-16 for July 2024 was within the acceptable GWQS range, The pH measurements at A3-MW-9 have been within the acceptable range over the past five monitoring events. since July of 2017. Monitoring well A3-MW-7 remains outside the acceptable range but indicate a long-term decreasing trend towards the acceptable GWQS range. Monitoring well A3-MW-10 is still outside the acceptable GWQS range. However, the past two monitoring events indicate an increase in the moving average towards the GWQS acceptable range.

  All ORC wells fall below the acceptable range of 6.5 with the exception of A3-ORC-1 which has been historically above the acceptable high range of 8.5, and A3-ORC-2, which was in the acceptable range during the July event. The statical trends for pH for Area III ORC wells have largely remained neutral over time. Apart from the following wells A3-ORC-3 and A3-ORC-2. Though the historical trending of A3-ORC-3 has generally been neutral the pH values of the last two sampling events have been lower than historical norms showing a slight decrease in MATA tracking. However, based on historical pH values it should still be considered neutral trending even with keeping the recent decreases in mind. During the July event, A3-ORC-2 did have a pH in the acceptable range showing an increase in the MATA trend from last years monitoring events. However, no field parameters were collected for pH at A3-ORC-2 during the December monitoring event due to the well being purged dry. Due to the missing event the MATA tracking will remain neutral until more sampling points can be collected.

  Benzene: The concentrations versus time plots at wells A1-MW-6, A2-MW-16, A3-MW-3, A3-MW-7, A3-MW-9 & -10 are shown on attachment 2. The benzene MATA trends at A1-MW-6 are neutral and below the GWQS. Monitoring well A2-MW-16 shows a decreasing trend over the past four monitoring events, but still above GWQS. Monitoring well A3-MW-3 MATA is considered a neutral trend and has been non-detect since the July 2019 sampling event and will be dropped from MATA tracking. Monitoring well A3-MW-7 is above the GWQS, but has shown a decreasing MATA trend over the past four monitoring events. Monitoring well A3-MW-9 plot indicates a continuing decreasing MATA trend below the GWQS. Monitoring Well A3-MW-10 indicates a continuous decreasing trend but still slightly over the GWQS.

  The benzene concentrations in the ORC wells have decreasing trends in A3-ORC-2, -4, & 5. ORC well A3-ORC-10 indicated a slight increasing trend, however benzene concentrations are well below previous sampling events. The remaining ORC wells indicate a neutral MATA trend.

- **n-Butylbenzene:** n-Butylbenzene was detected below the GWQS in monitoring well A1-MW-6 during the July 2024 sampling event, but the MATA remains above the GWQS.

- **n-Propylbenzene**: n-Propylbenzene in A1-MW-6 has continued to decrease in concentration and has a MATA assessment below GWQS.

- **Arsenic:** Arsenic in monitoring well A1-MW-6 indicated an increasing trend above the GWQS, the increased arsenic concentration may be attributed to high turbidity readings at the time of sampling. Arsenic concentrations for the last two sampling events at A3-MW-3 fell below GWQS, with the moving average trend below GWQS.

- **Cyanide:** Even though the cyanide concentration at monitoring well A3-MW-3 was below GWQS in Jun of 2021 and has been slightly above GWQS for the last three monitoring events, MATA tracking continues to show a decreasing trend over the past four monitoring events. Monitoring well A3-MW-7 indicates a decreasing moving average with the individual concentration below GWQSs for July 2024. Trending at A3-MW-10 tends to indicate an increasing trend. However, individual per event sampling concentrations fluctuated significantly with concentrations falling above and below GWQS keeping the MATA trend slightly increasing while remaining above GWQS. Cyanide at this location will continue to be tracked.

6. NYSDEC EQuIS Deliverables

On March 19th & 20th, 2025, Roux submitted the analytical data in Electronic Data Deliverable (EDD) format for the July and December 2024 groundwater and ORC monitoring events to the NYSDEC on behalf of FSMC to satisfy the NYSDEC EQuIS submittal requirement.

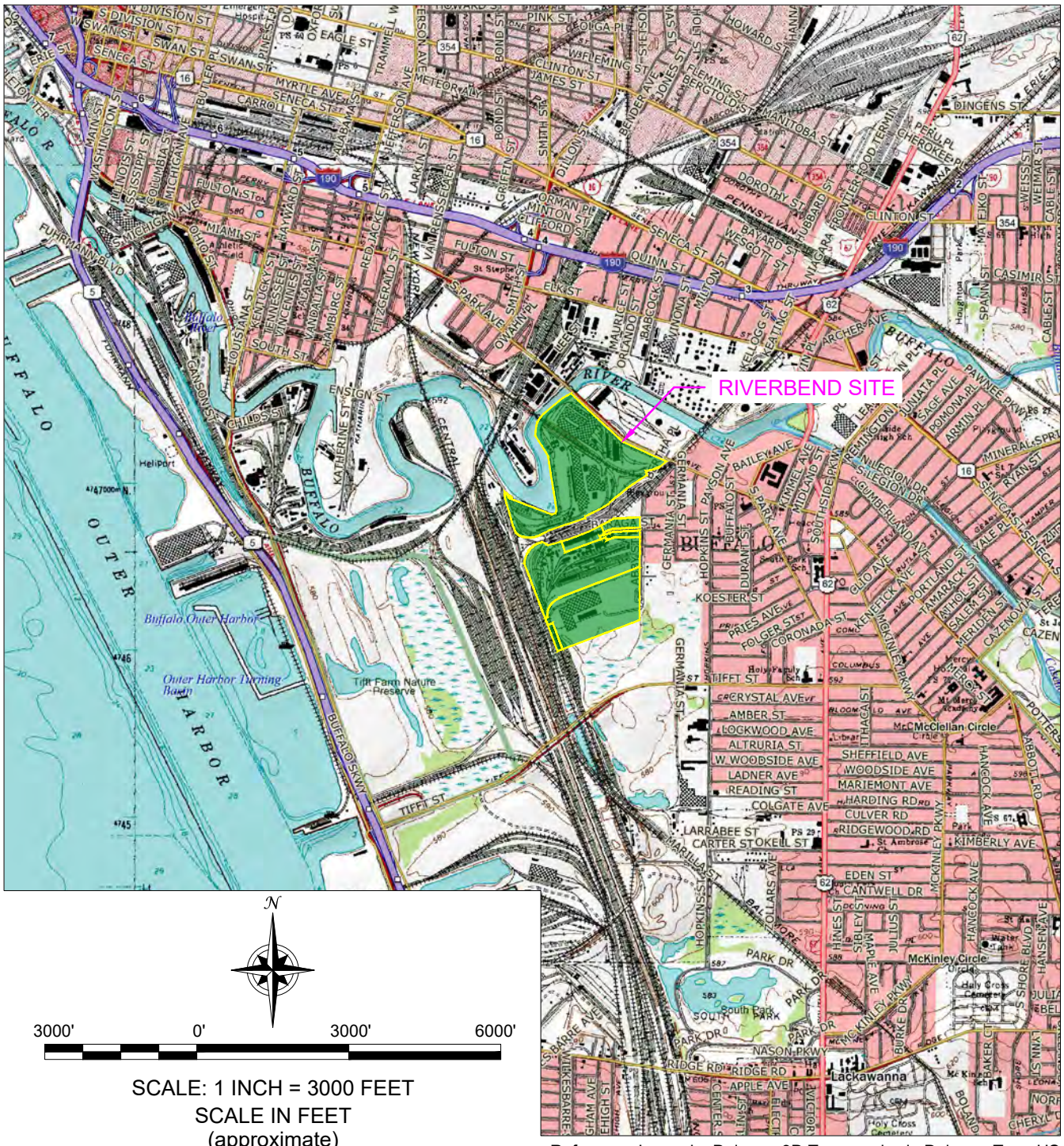
7. Planned Activities

A schedule summarizing the past, present, and future monitoring events is presented in Table 1. The NYSDEC-approved bi-annual analytical program is presented in Table 2. The next planned comprehensive monitoring event for Areas I, II, and III will be performed July 2025. Area III ORC well monitoring is tentatively scheduled for July and November 2025.

FIGURES

F:\CAD\TurnKey\Riverbend (formerly Steelfields)\LTGWM Program\2017 Comprehensive GWM Report\Figure 1; Site Vicinity and Location Map (2017).dwg

FIGURE 1



SCALE: 1 INCH = 3000 FEET
SCALE IN FEET
(approximate)

Reference: Image by Delorme 3D Topoquads via Delorme Topo USA.

TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0322-016-500

DATE: MARCH 2018

DRAFTED BY: BCH-CMC

SITE VICINITY & LOCATION MAP

ANNUAL GROUNDWATER MONITORING REPORT

RIVERBEND SITE
BUFFALO, NEW YORK

PREPARED FOR

FORT SCHUYLER MANAGEMENT CORPORATION

DISCLAIMER:
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N

200' 0' 200' 400'

SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

NOTE:
1. PROPERTY BOUNDARIES PER FOIT ALBERT ASSOCIATES MAY 2016 ENVIRONMENTAL EASEMENT FOR STEELFIELDS (AKA RIVERBEND, LLC) SITE.
2. AERIAL IMAGE FROM MICROSOFT BING MAPS USING AUTODESK AUTOCAD GEOLOCATION INTERFACE JULY 2024.

Title:

SITE PLAN
PERIODIC REVIEW REPORT

STEELFIELDS (AKA RIVERBEND) SITE
BUFFALO, NEW YORK

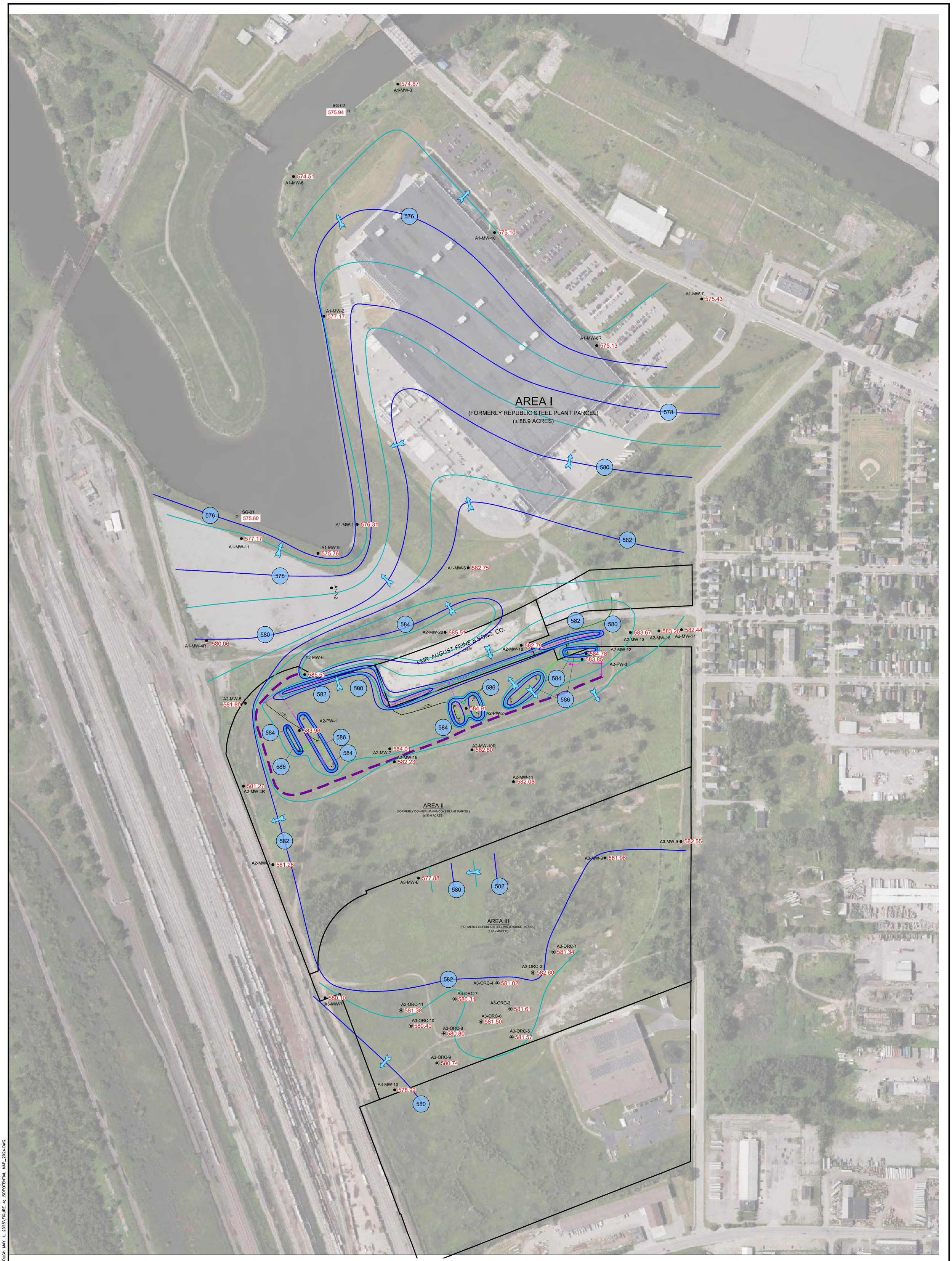
Prepared for:
FORT SCHUYLER MANAGEMENT CORPORATION

ROUX

Compiled by: RFL	Date: APRIL 2024
Prepared by: RFL	Scale: AS SHOWN
Project Mgr: THF	Project: 4334.00018.000
File: FIGURE 2; SITE PLAN (2024).DWG	

2

F:\CAD\BENCHMARK\FORT_SCHUYLER\PRR\2024\FIGURE 2; SITE PLAN (2024).DWG



LEGEND:

- MAJOR CONTOUR (2')
- MINOR CONTOUR (1')
- APPROXIMATE PROPERTY BOUNDARY
- A3-MW-6 578.52 — MONITORING WELL/GROUNDWATER ELEVATION
- SLURRY WALL (AS-BUILT)
- 6" PERF. HDPE — GROUNDWATER COLLECTION TRENCH (AS-BUILT)
- GROUNDWATER TREATMENT FORCEMAIN (AS-BUILT)
- EXISTING 48" CONCRETE PIPE (FMR. MANHOLES SHOWN)
- LIMITS OF CONTAINMENT CELL
- 588.6 — 4" PERF. HDPE — SOIL FLUSHING SYSTEM: 4" PERF. HDPE PIPE (INVERT ELEVATIONS SHOWN)
- SOIL FLUSHING SYSTEM: 4" SOILD HDPE PIPE
- 2" SOLID HDPE FM — SOIL FLUSHING SYSTEM: 2" SOLID HDPE FORCEMAIN
- FORCEMAIN & SOIL FLUSHING SYSTEM FLOW DIRECTION

Title:

ISOPOTENTIAL MAP - JULY 2024
PERIODIC REVIEW REPORT

RIVERBEND SITE
BUFFALO, NEW YORK

Prepared for:
FORT SCHUYLER MANAGEMENT CORPORATION

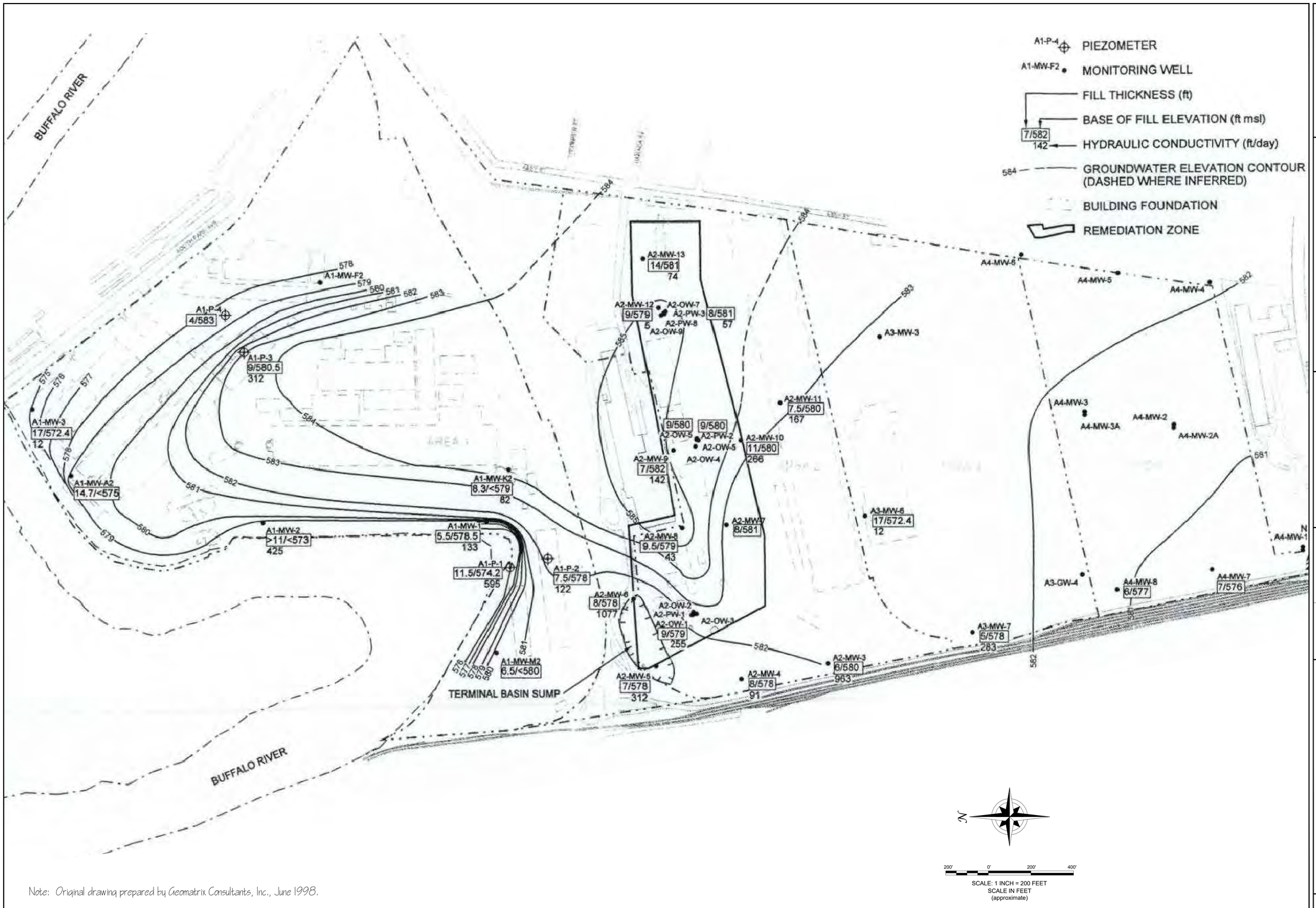
ROUX

Compiled by: CMC	Date: APRIL 2025
Prepared by: TB	Scale: AS SHOWN
Project Mgr: THF	Project: 4334.00001B000
File: FIGURE 4; ISOPOTENTIAL MAP_2024.DWG	

3

F:\CAD\TURNKEY\RIVERBEND (FORMERLY STEELFIELDS)\PRR\2025 - MAY 1, 2024 THROUGH MAY 1, 2025\FIGURE 4; ISOPOTENTIAL MAP_2024.DWG

F:\CAD\Turnkey\Buffalo\ Bromley Steel\Misc\ TOMS Program\2016 Comprehensive GWM Report\Figure 4, GWM Isopotential Map (June 1998).dwg



Note: Original drawing prepared by Geomatrix Consultants, Inc., June 1998.

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0322-016-500

REVISIONS

NO.	BY	DATE	REMARKS

DRAWN BY: BCH
DATE: JUNE 2016
CHECKED BY:
APPROVED BY:

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SEAL

ISOPOTENTIAL MAP - JUNE 1998

GROUNDWATER / ORC MONITORING EVENT
FORMER STEEL MANUFACTURING SITE
BUFFALO, NEW YORK

PREPARED FOR:
FORT SCHUYLER MANAGEMENT CORPORATION

FIGURE 4

TABLES

TABLE 1

GROUNDWATER MONITORING NETWORK AND SAMPLE FREQUENCY [1,2,3]

Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Well Designation	Monitoring Event																																	
	Year 1		Year 2		Year 3		Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15[7]	Year 16[7]	Year 17[7]	Year 18[7]	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30	Year 31
	1 SA	2SA	1 SA	2SA	Annual		Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
AREA I																																		
A1-MW-1	Sep-04	Sep-05	Dec-06		Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-2	Sep-04	Sep-05	Dec-06		Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-3	Sep-04	Sep-05	Dec-06		Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-4R [4]	Sep-04	Sep-05	May-06	Dec-06	Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-5	Sep-04	Sep-05	May-06	Dec-06	Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-6	Sep-04	Sep-05	May-06	Dec-06	Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-7 [5]	*water level only*									May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-8R [6]	Sep-04	Sep-05	May-06	Dec-06	Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14		Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-9	Sep-04	Sep-05	May-06	Dec-06	Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-10 [6]	Sep-04	Sep-05	Dec-06		Aug-07		Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A1-MW-11 [4]	Not yet installed															Information N/A		Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●									●	●
AREA II																																		
A2-MW-3					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-4R					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-5					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-6	*water level only*																																	
A2-MW-7	*water level only*																																	
A2-MW-10						Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-11	*water level only*																																	
A2-MW-12	*water level only*																																	
A2-MW-13					Jul-07	Dec-07	Apr-08		May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-16					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-17					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	Jul-19	Jun-20	Jul-21	Jun-22	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A2-MW-18	*water level only*																																	
A2-MW-19	*water level only*																																	
A2-MW-20	*water level only*																																	
AREA III																																		
A3-MW-3							Oct-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	19-Jul	20-Jun	Jul-30	1-Jul	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A3-MW-6							Oct-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	19-Jul	20-Jun	Jul-31	2-Jul	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A3-MW-7					Jul-07	Dec-07	Apr-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	19-Jul	20-Jun	Jul-32	3-Jul	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A3-MW-9							Oct-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	19-Jul	20-Jun	Jul-33	4-Jul	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●
A3-MW-10							Oct-08	May-09	May-10	May-11	Jun-12	Jun-13	Jun-14	Jul-15	Jun-16	Jul-17	Sep-18	19-Jul	20-Jun	Jul-34	5-Jul	Jun-23	**Jul-24**	●	●	●	●	●	●	●	●	●	●	●

Well Designation	Year 3		Year 4		Year 5		Year 6		Year 7		Year 8		Year 9		Year 10		Year 11		Year 12		Year 13		Year 14		Year 15[7]		Year 16[7]		Year 17[7]		Year 18[7]		Year 19		Year 20	
	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	1 SA	2SA	2 SA	2SA	3 SA	2SA	4 SA	2SA	1 SA	2SA	1 SA	2SA
AREA III - ORC wells (every 6 months)																																				
A3-ORC-1	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-2	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-3	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-4	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-5	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-6	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-7	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-8	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-9	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-10	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**
A3-ORC-11	Jul-07	Dec-07	Apr-08	Nov-08	May-09	Nov-09	May-10	Nov-10	May-11	Nov-11	Jun-12	Nov-12	Jun-13	Dec-13	Jun-14	Dec-14	Jul-15	Nov-15	Jun-16	Dec-16	Jul-17	Dec-17	Jun-18	Nov-18	Jun-19	Dec-19	Jun-20	Dec-20	Jun-21	Dec-21	Jun-22	Dec-22	Jun-23	Nov-23	**Jul-24**	**Dec-24**

Notes:

1. Per the LTGWM Plan, newly installed monitoring wells require four consecutive semi-annual groundwater monitoring events, then annually thereafter.
2. Per the LTGWM Plan, existing monitoring wells require two consecutive semi-annual groundwater monitoring events, then annually thereafter.
3. The groundwater sampling plan was modified to a bi-annual frequency (see Table 2) as per NYSDEC approval letter dated May 5, 2011.
4. Due to redevelopment activities in Area I, wells A1-MW-4 and A1-MW-M2 were replaced on July 11-12, 2017 with wells A1-MW-4R and A1-MW-11, respectively.
5. Per a NYSDEC request, A1-MW-7 was sampled for VOCs, arsenic, chromiuim, and lead in 2011 only; water level and field parameters annually thereafter.
6. Well A1-MW-8 and piezometer A1-P-4 were replaced June 6-7, 2016 with wells A1-MW-8R and A1-MW-10, respectively.
7. Annual groundwater monitong event was performed by others.

Legend:

Sep-18	= current monitoring event
●	= future monitoring event
19-Jun	= Annual sampling event perfromed by others.

ROUX

TABLE 2

ANALYTICAL PROGRAM SUMMARY [1]

Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Well Designation	Monitoring Year															
	2011, 2013, 2015, 2017, 2019, 2021, 2023								2012, 2014, 2016, 2018, 2020, 2022, 2024							
	Field	CP-51 VOCs	8260 Benzene Only	As	Cr	Pb	CN	Alk.	Field	CP-51 VOCs	8260 Benzene Only	As	Cr	Pb	CN	Alk.
AREA I																
A1-MW-1	x	x		x					x			x				
A1-MW-2	x	x							x							
A1-MW-3	x	x							x							
A1-MW-4R [2]	x	x							x							
A1-MW-5	x	x							x	x						
A1-MW-6	x	x		x					x	x		x				
A1-MW-7 [3]	x								x							
Al-MW-8R [4]	x	x		x					x			x				
A1-MW-9	x	x							x							
A1-MW-10 [4]	x	x			x				x				x			
A1-MW-11 [2]	x	x							x							
AREA II																
A2-MW-3	x	x							x							
A2-MW-4R	x	x							x							
A2-MW-5	x	x							x							
A2-MW-6	*water level only*								*water level only*							
A2-MW-7	*water level only*								*water level only*							
A2-MW-10R	x	x							x							
A2-MW-11	*water level only*								*water level only*							
A2-MW-12	*water level only*								*water level only*							
A2-MW-13	x	x							x							
A2-MW-16	x	x		x	x	x			x	x		x	x	x		
A2-MW-17	x	x							x	x						
A2-MW-18	*water level only*								*water level only*							
A2-MW-19	*water level only*								*water level only*							
A2-MW-20	*water level only*								*water level only*							
AREA III																
A3-MW-3	x	x		x			x		x	x		x			x	
A3-MW-6	x	x		x			x		x	x		x			x	
A3-MW-7	x	x					x		x	x					x	
A3-MW-9	x	x				x			x	x				x		
A3-MW-10	x	x					x		x	x					x	
AREA III - ORC wells (every 6 months)																
A3-ORC-1	x		x					x	x		x					x
A3-ORC-2	x		x					x	x		x					x
A3-ORC-3	x		x					x	x		x					x
A3-ORC-4	x		x					x	x		x					x
A3-ORC-5	x		x					x	x		x					x
A3-ORC-6	x		x					x	x		x					x
A3-ORC-7	x		x					x	x		x					x
A3-ORC-8	x		x					x	x		x					x
A3-ORC-9	x		x					x	x		x					x
A3-ORC-10	x		x					x	x		x					x
A3-ORC-11	x		x					x	x		x					x
Totals:	**34**	**22**	**11**	**6**	**2**	**2**	**4**	**11**	**34**	**9**	**11**	**6**	**2**	**2**	**4**	**11**

Notes:

1. Modified analytical plan as per NYSDEC approval letter dated May 5, 2011.
2. Due to redevelopment activities in Area I, wells A1-MW-4 and A1-MW-M2 were replaced on July 11-12, 2017 with wells A1-MW-4R and A1-MW-11, respectively.
3. Per a NYSDEC request, A1-MW-7 was sampled for VOCs, arsenic, chromiuim, and lead in 2011; water level and field parameters annually thereafter.
4. Well A1-MW-8 and piezometer A1-P-4 were replaced June 6-7, 2016 with wells A1-MW-8R and A1-MW-10, respectively.

ROUX

TABLE 3

GROUNDWATER ELEVATION MEASUREMENTS
July 24, 2024

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend Site) (V00619-9)
Buffalo, New York

Monitoring Location	TOR Elevation (fmsl)	DTP (fbTOR)	DTW (fbTOR)	Product Thickness (feet)	Groundwater Elevation (fmsl)	Corrected Groundwater Elevation [1] (fmsl)
Area I Monitoring Wells [2]						***11 Wells***
A1-MW-1	586.38	NP	10.07	NP	576.31	576.31
A1-MW-2	586.39	NP	9.22	NP	577.17	577.17
A1-MW-3	591.98	NP	17.11	NP	574.87	574.87
A1-MW-4R	588.76	NP	8.70	NP	580.06	580.06
A1-MW-5	590.48	NP	7.73	NP	582.75	582.75
A1-MW-6	591.60	NP	17.09	NP	574.51	574.51
A1-MW-7	586.97	NP	11.54	NP	575.43	575.43
A1-MW-8R	589.83	NP	14.70	NP	575.13	575.13
A1-MW-9	588.05	NP	12.29	NP	575.76	575.76
A1-MW-10	589.73	NP	14.63	NP	575.10	575.10
A1-MW-11	591.73	NP	14.56	NP	577.17	577.17
Area II Monitoring Wells [2]						***17 Wells***
A2-MW-3	588.95	NP	7.67	NP	581.28	581.28
A2-MW-4R	588.59	NP	7.32	NP	581.27	581.27
A2-MW-5	587.25	NP	5.45	NP	581.80	581.80
A2-MW-6	592.69	NP	7.18	NP	585.51	585.51
A2-MW-7	602.05	NP	18.04	NP	584.01	584.01
A2-MW-10R	593.59	NP	10.99	NP	582.60	582.60
A2-MW-11	590.11	NP	8.03	NP	582.08	582.08
A2-MW-12	604.12	NP	19.34	NP	584.78	584.78
A2-MW-13	597.90	NP	14.23	NP	583.67	583.67
A2-MW-16	597.62	NP	14.36	NP	583.26	583.26
A2-MW-17	596.94	NP	14.50	NP	582.44	582.44
A2-MW-18	587.64	NA	4.85	NA	582.79	582.79
A2-MW-19	592.02	NP	9.79	NP	582.23	582.23
A2-MW-20	591.54	NP	6.03	NP	585.51	585.51
A2-PW-1	601.76	NP	17.80	NP	583.96	583.96
A2-PW-2	603.91	NP	19.00	NP	584.91	584.91
A2-PW-3	603.88	NP	20.03	NP	583.85	583.85
Area III Monitoring Wells [2]						***5 Wells***
A3-MW-3	585.40	NP	3.44	NP	581.96	581.96
A3-MW-6	585.70	NP	7.82	NP	577.88	577.88
A3-MW-7	586.39	NP	6.29	NP	580.10	580.10
A3-MW-9	597.61	NP	15.06	NP	582.55	582.55
A3-MW-10	585.41	NP	6.49	NP	578.92	578.92

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TABLE 3

GROUNDWATER ELEVATION MEASUREMENTS
July 24, 2024

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend Site) (V00619-9)
Buffalo, New York

Monitoring Location	TOR Elevation (fmsl)	DTP (fbTOR)	DTW (fbTOR)	Product Thickness (feet)	Groundwater Elevation (fmsl)	Corrected Groundwater Elevation [1] (fmsl)
Area III ORC Monitoring Wells [2]						***11 Wells***
A3-ORC-1	587.17	NP	5.83	NP	581.34	581.34
A3-ORC-2	587.35	NP	4.75	NP	582.60	582.60
A3-ORC-3	587.55	NP	5.94	NP	581.61	581.61
A3-ORC-4	587.14	NP	6.12	NP	581.02	581.02
A3-ORC-5	587.77	NP	6.20	NP	581.57	581.57
A3-ORC-6	587.53	NP	6.03	NP	581.50	581.50
A3-ORC-7	587.16	NP	6.85	NP	580.31	580.31
A3-ORC-8	587.51	NP	6.71	NP	580.80	580.80
A3-ORC-9	585.15	NP	4.41	NP	580.74	580.74
A3-ORC-10	587.60	NP	7.20	NP	580.40	580.40
A3-ORC-11	587.70	NP	6.32	NP	581.38	581.38
Surface Water [4]						***3 Locations***
SG-01 (downstream)	585.07	NP	9.27	NP	575.80	
SG-02 (upstream)	590.72	NM	14.78	NP	575.94	
Lake Erie [5]	572.9	_	_	_	572.90	

Notes:
1. Groundwater elevations are corrected if free product (i.e., LNAPL) is present.
2. Monitoring well reference point elevations (i.e., top of riser for wells and sheet pile for staff gauges) have been surveyed at various times by TurnKey or Steelfields.
4. Staff Gauge (SG) locations are located at the upstream and downstream locations indicated on Figure 1. Each staff gauge was surveyed on January 3, 2008 by Niagara Boundary personnel.
5. Source: NOAA Tides & Currents Web Page- Buffalo, NY Station ID 9063020; average daily elevation (from 8 am to 4 pm) of Buffalo, New York Station #9063020.

Definitions:
DTP = depth to product, if present
DTW = detph to water
fmsl = feet above mean sea level
fbTOR = feet below top of riser
NP = no measureable product was present
NM = not measured for this event
R = replacement well
TOR = top of riser
Highlighted to note wells used for slurry wall evaluation

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TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS [1,2]
Area I: Former Steel Plant Parcel

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Parameter	Monitoring Location and Date of Sample Collection											GWQS/GV [1]
	A1-MW-1	A1-MW-2	A1-MW-3	A1-MW-4R	A1-MW-5	A1-MW-6 [3]	A1-MW-7	A1-MW-8R	A1-MW-9	A1-MW-10	A1-MW-11	
	07/24/24	07/24/24	07/24/24	07/25/24	07/25/24	07/24/24	07/25/24	07/24/24	07/25/24	07/24/24	07/25/24	
Field Measurements (units as indicated) [2]												
pH (units)	8.10	**6.45**	6.99	7.09	7.56	7.34	6.80	6.66	7.44	6.79	7.07	**6.5 - 8.5**
Temperature (degrees C)	13.7	16.4	16.3	14.8	17.3	17.3	15.4	14.3	16.3	15.6	16.0	**NA**
Specific Conductance (uS)	630	648	1245	668	727.1	1142	1020	2085	727.3	4229	1058	**NA**
Turbidity (NTU)	22.0	55	298	54.0	17.00	>1000	54.0	43.0	17.0	71.0	26.0	**NA**
Dissolved Oxygen (mg/L)	2.52	1.09	1.43	1.20	1.95	1.32	1.16	1.93	2.28	1.52	1.90	**NA**
Eh (mV)	-181	-64	-96	173	-29	-111	64	-42	63	-64	-112	**NA**
Visual Observation	Clear	Clear	Turbid	Clear	Clear	Turbid	Clear	Clear	Clear	Sl Turbid	Clear	**NA**
Olfactory Observation	No odor	No odor	No odor	No odor	No odor	Sl Petroleum	No odor	No odor	No odor	No odor	No odor	**NA**
Volatile Organic Compounds (ug/L)												
Benzene	--	--	--	--	ND	ND	--	--	--	--	--	**1**
n-Butylbenzene	--	--	--	--	ND	2.1 J	--	--	--	--	--	**5**
sec-Butylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
tert-Butylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
p-Cymene (4-Isopropyltoluene)	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Ethylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Isopropylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Methyl tert butyl ether	--	--	--	--	ND	ND	--	--	--	--	--	**10**
n-Propylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Toluene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
1,2,4-Trimethylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
1,3,5-Trimethylbenzene	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Xylenes, Total	--	--	--	--	ND	ND	--	--	--	--	--	**5**
Total VOCs	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	***2.1***	***0.0***	***0.0***	***0.0***	***0.0***	***0.0***	**10**
Total Inorganics (mg/L)												
Total Arsenic	0.0064	NS	NS	NS	NS	**0.0537**	NS	0.0168	NS	NS	NS	**0.025**
Total Chromium	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	**0.05**

Notes:

1. NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value 6NYCRR Part 703 (effective June 1998)
2. Field measurements were collected immediately before and after groundwater sample collection.
3. Light non-aqueous phase liquid (LNAPL) detected.
4. " NA " = Not Applicable, a GWQS/GV has not been established for this parameter.
5. " ND " = the sample location was analyzed for this parameter, but reported at a concentration less than the method detection limit.
6. " -- " = compound is not analyzed at this location

" J " = Estimated Value

Color Code:

= Shaded values represent exceedances of the NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value.

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TABLE 5

SUMMARY OF LNAPL THICKNESS / REMOVAL IN A1-MW-6
Area I: Former Republic (LTV) Steel Plant Parcel

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Date	LNAPL Measurement			Estimated Quantity Removed (oz.)	Absorbant Sock Replaced (Y or N)	Comments
	Top (fbTOR)	Bottom (fbTOR)	Thickness (feet)			
05/20/24	18.01	18.01	0.00	0	no	
06/10/24	17.64	17.64	0.00	0	yes	Changed absorbent sock.
07/10/24	17.51	17.51	0.00	0	no	
08/28/24	17.54	17.54	0.00	0	yes	Changed absorbent sock.
09/26/24	18.01	18.01	0.00	0	no	
10/24/24	17.94	17.94	0.00	0	no	
11/19/24	19.22	19.22	0.00	0	no	
12/20/24	18.35	18.35	0.00	0	no	
01/14/25	18.94	18.94	0.00	0	yes	Changed absorbent sock.
02/14/25	18.01	18.01	0.00	0	no	
03/27/25	17.38	17.38	0.00	0	no	Changed absorbent sock.
04/27/25	17.64	17.64	0.00	0	yes	Changed absorbent sock.

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TABLE 6

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS [1,2]
Area II: Former Coke Plant Parcel

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Parameter	Monitoring Location and Date of Sample Collection							GWQS/GV [1]
	A2-MW-3	A2-MW-4R	A2-MW-5	A2-MW-10R	A2-MW-13	A2-MW-16	A2-MW-17	
	07/22/24	07/23/24	07/25/24	07/22/24	07/22/24	07/23/24	07/23/24	
Field Measurements (units as indicated) [2]								
pH (units)	7.18	7.25	7.3	6.58	6.98	7.08	6.99	**6.5 - 8.5**
Temperature (degrees C)	19.3	15.1	19.2	15.4	19.2	16.9	14.4	**NA**
Specific Conductance (uS)	1089	946	718	1175	2403	1798	2610	**NA**
Turbidity (NTU)	14	48	18	15	14	88	12	**NA**
Dissolved Oxygen (mg/L)	0.87	1.93	1.37	1.04	1.97	1.63	1.1	**NA**
Eh (mV)	53	-70	8	-41	-10	-75	-119	**NA**
Visual Observation	Clear	Clear	Clear	Clear	Clear	Clear	Clear	**NA**
Olfactory Observation	No Odor	No Odor	No Odor	No Odor	No Odor	No Odor	No Odor	**NA**
Volatile Organic Compounds (ug/L)								
Benzene	--	--	--	--	--	**1.4**	ND	**1**
n-Butylbenzene	--	--	--	--	--	ND	ND	**5**
sec-Butylbenzene	--	--	--	--	--	ND	ND	**5**
tert-Butylbenzene	--	--	--	--	--	ND	0.87 J	**5**
p-Cymene (4-Isopropyltoluene)	--	--	--	--	--	ND	ND	**5**
Ethylbenzene	--	--	--	--	--	ND	ND	**5**
Isopropylbenzene	--	--	--	--	--	ND	ND	**5**
Methyl tert butyl ether	--	--	--	--	--	ND	ND	**10**
n-Propylbenzene	--	--	--	--	--	ND	ND	**5**
Toluene	--	--	--	--	--	ND	ND	**5**
1,2,4-Trimethylbenzene	--	--	--	--	--	ND	ND	**5**
1,3,5-Trimethylbenzene	--	--	--	--	--	ND	ND	**5**
Xylenes, Total	--	--	--	--	--	ND	ND	**5**
Total VOCs	***0***	***0***	***0***	***0***	***0***	***1.4***	***0.87***	**10**
Inorganics (mg/L)								
Total Arsenic	--	--	--	--	--	0.0032 J	--	**0.025**
Total Chromium	--	--	--	--	--	0.0083 J	--	**0.05**
Total Lead	--	--	--	--	--	0.0044 J	--	**0.025**

Notes:

1. NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value 6NYCRR Part 703 (effective June 1998)
2. Field measurements were collected immediately before and after groundwater sample collection.
3. " NA " = Not Applicable, a GWQS/GV has not been established for this parameter.
4. " ND " = the sample location was analyzed for this parameter, but reported at a concentration less than the method detection limit.
5. " -- " = This parameter was not analyzed.

Color Code:

= Shaded values represent exceedances of the NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value.

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TABLE 7

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS [1,2]
Area III: Former Warehouse Parcel

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Parameter	Monitoring Location and Date of Sample Collection					GWQS/GV [1]
	A3-MW-3	A3-MW-6	A3-MW-7	A3-MW-9	A3-MW-10	
	07/24/24	07/24/24	07/25/24	07/23/24	07/23/24	
Field Measurements (units as indicated) [2]						
pH (units)	7.27	8.38	**9.27**	7.52	**5.94**	**6.5 - 8.5**
Temperature (degrees C)	18.3	15.3	16.2	14.1	15.2	**NA**
Specific Conductance (uS)	1497	462.4	400.6	1263	4930	**NA**
Turbidity (NTU)	45	57	15	49	17	**NA**
Dissolved Oxygen (mg/L)	2.29	1.55	1.42	1.74	1.08	**NA**
Eh (mV)	-76	-29	-227	-72	-23	**NA**
Visual Observation	Clear	Clear	Clear	Clear	Clear	**NA**
Olfactory Observation	No Odor	No Odor	Sulfur	No Odor	No Odor	**NA**
Volatile Organic Compounds (ug/L)						
Benzene	ND	ND	**8.3**	ND	**1.3**	**1**
n-Butylbenzene	ND	ND	ND	ND	ND	**5**
sec-Butylbenzene	ND	ND	ND	ND	ND	**5**
tert-Butylbenzene	ND	ND	ND	ND	ND	**5**
p-Cymene (4-Isopropyltoluene)	ND	ND	ND	ND	ND	**5**
Ethylbenzene	ND	ND	ND	ND	ND	**5**
Isopropylbenzene	ND	ND	ND	ND	0.96 J	**5**
Methyl tert butyl ether	ND	ND	ND	ND	ND	**10**
n-Propylbenzene	ND	ND	ND	ND	ND	**5**
Toluene	ND	ND	ND	ND	ND	**5**
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	**5**
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	**5**
Xylenes, Total	ND	ND	ND	ND	ND	**5**
Total VOCs	***0***	***0***	***8.3***	***0***	***2.26***	**10**
Inorganics (mg/L)						
Total Arsenic	0.0194	0.0067	--	--	--	**0.025**
Total Lead	--	--	--	0.0097	--	**0.025**
Wet Chemistry (mg/L)						
Cyanide	**1.63**	0.027	0.145	--	**0.442**	**0.2**

Notes:

1. NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value 6NYCRR Part 703 (effective June 1998)
2. Field measurements were collected immediately before and after groundwater sample collection.
4. "--" Analysis was not performed for this parameter.
5. " J " = Estimated Value
6. " NA " = Not Applicable, a GWQS/GV has not been established for this parameter.
7. " ND " = the sample location was analyzed for this parameter, but reported at a concentration less than the method detection limit.

Color Code:

= Shaded values represent exceedances of the NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value.

ROUX

TABLE 8

SUMMARY OF JULY 2024 ORC ANALYTICAL RESULTS [1,2,3]
Area III: Former Warehouse Parcel
Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Parameter	Monitoring Location											GWQS [2]
	A3-ORC-1	A3-ORC-2	A3-ORC-3	A3-ORC-4	A3-ORC-5	A3-ORC-6	A3-ORC-7	A3-ORC-8	A3-ORC-9	A3-ORC-10	A3-ORC-11	
Field Measurements During Purge (units as shown) [1]												
Static Depth to Water (fbTOR)	5.60	4.75	5.27	5.31	5.98	5.68	6.85	6.54	3.95	6.47	6.23	--
Total Depth (fbTOR)	14.08	14.43	14.38	14.38	14.03	14.36	14.36	14.63	14.03	14.55	14.57	--
One Casing Volume (gallons)	5.54	6.32	5.95	5.92	5.26	5.67	4.90	5.28	6.58	5.28	5.45	--
Number of Volumes Purged	4.0	1.4	4.0	3.9	4.5	3.7	2.3	3.1	12.2	5.0	4.6	--
Sample Determination [3]	4-days	4-days	4-days	4-days	4-days	4-days	4-days	4-days	volume	4-days	4-days	--
Purge: Day 1 (07/22/24) (gallons)	6.0	6.0	6.0	6.0	7.0	6.0	5.0	5.5	20.0	6.0	6.0	--
Purge: Day 2 (07/23/24) (gallons)	6.0	1.0	6.0	6.0	6.3	5.0	2.5	4.5	20.0	7.0	7.0	--
Purge: Day 3 (07/24/24) (gallons)	5.0	0.8	7.5	5.0	5.0	5.0	2.0	3.5	20.0	6.5	6.0	--
Purge: Day 4 (07/25/24) (gallons)	5.0	1.0	4.5	6.0	5.5	5.0	2.0	3.0	20.0	7.0	6.0	--
Sample Collection (date indicated)	07/25/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	07/26/24	--
Cumulative Volume Purged (gallons)	22.0	8.8	24.0	23.0	23.8	21.0	11.5	16.5	80.0	26.5	25.0	--
Field Measurements During Sample Collection (units as shown) [3]												
pH (units)	**12.51**	7.50	**4.33**	**4.76**	**3.14**	**3.25**	**5.29**	**4.19**	**1.63**	**5.50**	**5.43**	6.5 - 8.5
Temperature (deg C)	19.4	18.1	22.0	20.2	18.8	19.4	17.8	20.6	19.1	17.4	17.9	--
Specific Conductance (uS)	1527	5500	6079	4266	4846	8816	2838	9012	7052	5340	5106	--
Turbidity (NTU)	71	305	167	337	181	344	240	148	175	617	181	--
Dissolved Oxygen (ppm)	0.21	3.47	2.71	2.71	2.45	2.13	3.03	1.46	1.71	3.5	3.17	--
ORP (mV)	-267	-129	21	- 15	-1	64	-25	24	134	- 61	-108	--
Visual Observation	turbid	turbid	sl turbid	turbid	turbid	turbid	turbid	turbid	clear	turbid	turbid	--
Volatile Organic Compounds (mg/L):												
Benzene	**1.7**	**0.94**	**1.6**	ND	**2.4**	**4.4**	0.00036 J	**21**	**39**	**3.6**	0.00047 J	0.001
Toluene	**0.18**	ND	ND	ND	**0.068**	ND	ND	**0.62**	**2.6**	ND	ND	0.005
p/m- Xylene	**0.034 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Wet Chemistry (mg/L):												
Alkalinity	187	ND	63.3	318	263	ND	126	341	ND	536	329	--

Notes:

1. Field measurements were collected immediately before groundwater sample collection.
2. NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value 6NYCRR Part 703 (effective June 1998).
3. NYSDEC requirement: purge 10 well volumes or to dryness for 4 consecutive days, then sample. "Volume" indicates that 10 well volumes were purged prior to sample collection and "4-days" indicates that the well was purged to
4. " ND " indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).

Color Code:

= Shaded values represent exceedances of the NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value.

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TABLE 9

SUMMARY OF DECEMBER 2024 ORC ANALYTICAL RESULTS [1,2,3]
Area III: Former Warehouse Parcel

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend) Site (V00619-9)
Buffalo, New York

Parameter	Monitoring Location											GWQS [2]
	A3-ORC-1	A3-ORC-2	A3-ORC-3	A3-ORC-4	A3-ORC-5	A3-ORC-6	A3-ORC-7	A3-ORC-8	A3-ORC-9	A3-ORC-10	A3-ORC-11	
Field Measurements During Purge (units as shown) [1]												
Static Depth to Water (fbTOR)	4.90	5.20	5.85	5.84	4.20	6.17	6.98	6.43	3.68	6.37	5.43	--
Total Depth (fbTOR)	14.08	14.43	14.38	14.38	14.03	14.36	14.36	14.63	14.03	14.55	14.57	--
One Casing Volume (gallons)	5.90	6.00	5.50	5.50	6.40	6.03	4.80	5.30	6.70	5.30	5.90	--
Number of Volumes Purged	3.0	2.3	2.8	2.9	3.0	2.6	3.2	2.4	9.0	3.8	3.1	--
Sample Determination	3-days	3-days	3-days	3-days	3-days	3-days	3-days	3-days	3-days	3-days	3-days	--
Purge: Day 1 (12/18/24) (gallons)	5.0	5.0	5.5	6.0	5.5	4.50	5.5	4.5	20.0	6.0	5.5	--
Purge: Day 2 (12/19/24) (gallons)	6.50	5.5	5.0	5.0	7.0	5.5	4.8	4.0	20.0	7.0	6.0	--
Purge: Day 3[3] (12/20/24) (gallons)	6.0	3.0	5.0	5.0	7.0	5.5	5.0	4.0	20.0	7.0	6.5	--
Sample Collection (date indicated)	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	11/30/23	--
Cumulative Volume Purged (gallons)	17.5	13.5	15.5	16.0	19.5	15.5	15.3	12.5	60.0	20.0	18.0	--
Field Measurements During Sample Collection (units as shown) [3]												
pH (units)	**12.14**	--	**3.07**	**5.18**	**5.97**	**4.84**	**6.29**	**5.64**	**4.23**	**6.45**	**5.99**	6.5 - 8.5
Temperature (deg C)	8.2	--	8.4	7.7	9.2	8.4	6.5	8.4	7.6	8.0	7.2	--
Specific Conductance (uS)	1824	--	6293	3106	1952	9516	5216	1832	6674	3343	2796	--
Turbidity (NTU)	43.4	--	446	137	103	266	317	113	117	438	126	--
Dissolved Oxygen (ppm)	1.05	--	4.81	4.85	2.74	3.87	3.46	3.61	3.39	7.06	3.96	--
ORP (mV)	228	--	306	118	22	90	-13	53	98	6	40	--
Visual Observation	clear	--	turbid	turbid	clear	turbid	turbid	clear	turbid	turbid	turbid	--
Volatile Organic Compounds (mg/L):												
Benzene	**0.81**	**1.8**	**1.2**	ND	**0.023**	**4.8**	**0.00095**	**2.2**	**55**	**0.022**	ND	0.001
Total Xylene	**0.038 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Acetone	ND	ND	**0.017 J**	**2.2 J**	0.0018 J	ND	**0.0035 J**	ND	ND	0.0027 J	0.0019 J	0.05
Carbon Disulfide	ND	ND	**0.012 J**	ND	ND	**0.065**	ND	ND	ND	ND	ND	0.06
Cyclohexane	ND	ND	ND	ND	ND	ND	**0.00028 J**	ND	ND	ND	ND	--
Isopropylbenzene	ND	ND	ND	ND	ND	ND	**0.001 J**	ND	ND	ND	ND	0.005
Toluene	**0.15**	ND	ND	ND	0.0018 J	ND	ND	ND	**3.9**	ND	ND	0.005
Ethylbenzene	ND	ND	ND	ND	ND	ND	**0.0024 J**	ND	ND	ND	ND	0.005
Wet Chemistry (mg $CaCO_3$/L):												
Alkalinity	223	28.9	ND	214	359	ND	311	524	ND	388	309	--

Notes:
1. Field measurements were collected immediately before groundwater sample collection.
2. NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value 6NYCRR Part 703 (effective June 1998).
3. Sampling occurred over 3 days instead of 4 day to accomidate for inclement weather.

Definitions:
" ND " indicates parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).
-- A3-ORC-2 was dry at the time of sampling.

Color Code:
= Shaded values represent exceedances of the NYSDEC Class "GA" Groundwater Quality Standard/Guidance Value.

ROUX

TABLE 10

AREA-BY-AREA MOVING AVERAGE TREND ANALYSIS (MATA) SUMMARY

2024 Comprehensive Groundwater Monitoring Report
Steelfields (aka Riverbend Site) (V00619-9)
Buffalo, New York

Location	No. of Data Pts.	MATA Pts.	Moving Average Trend [1] [increasing (I), decreasing (D), neutral (N)]						
			pH	Benzene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Total Arsenic	Cyanide
Area I Monitoring Wells									
A1-MW-1	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-2	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-3	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-5	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-6	21	18	NA	N	I	NA	D	I	--
A1-MW-7	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-8R	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-9	NA	NA	NA	NA	NA	NA	NA	NA	--
A1-MW-10	NA	NA	NA	NA	NA	NA	NA	NA	--
Area II Monitoring Wells									
A2-MW-3	NA	NA	NA	NA	NA	NA	NA	NA	--
A2-MW-4R	NA	NA	NA	NA	NA	NA	NA	NA	--
A2-MW-5	NA	NA	NA	NA	NA	NA	NA	NA	--
A2-MW-10R	NA	NA	NA	NA	NA	NA	NA	NA	--
A2-MW-13	NA	NA	NA	NA	NA	NA	NA	NA	--
A2-MW-16	18	15	I	N	NA	NA	NA	NA	--
A2-MW-17	NA	NA	NA	NA	NA	NA	NA	NA	--
Area III Monitoring Wells									
A3-MW-3	17	14	NA	NA	NA	NA	NA	N	D
A3-MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA
A3-MW-7	18	15	D	D	NA	NA	NA	NA	D
A3-MW-9	17	14	D	N	NA	NA	NA	NA	NA
A3-MW-10	17	14	N	N	NA	NA	NA	NA	I
Area III Monitoring Wells									
A3-ORC-1	34	31	N	N	--	--	--	--	--
A3-ORC-2	34	31	N	N	--	--	--	--	--
A3-ORC-3	34	31	N	N	--	--	--	--	--
A3-ORC-4	34	31	N	N	--	--	--	--	--
A3-ORC-5	34	31	N	N	--	--	--	--	--
A3-ORC-6	34	31	N	N	--	--	--	--	--
A3-ORC-7	34	31	N	N	--	--	--	--	--
A3-ORC-8	34	31	N	N	--	--	--	--	--
A3-ORC-9	34	31	N	N	--	--	--	--	--
A3-ORC-10	34	31	N	N	--	--	--	--	--
A3-ORC-11	34	31	N	N	--	--	--	--	--

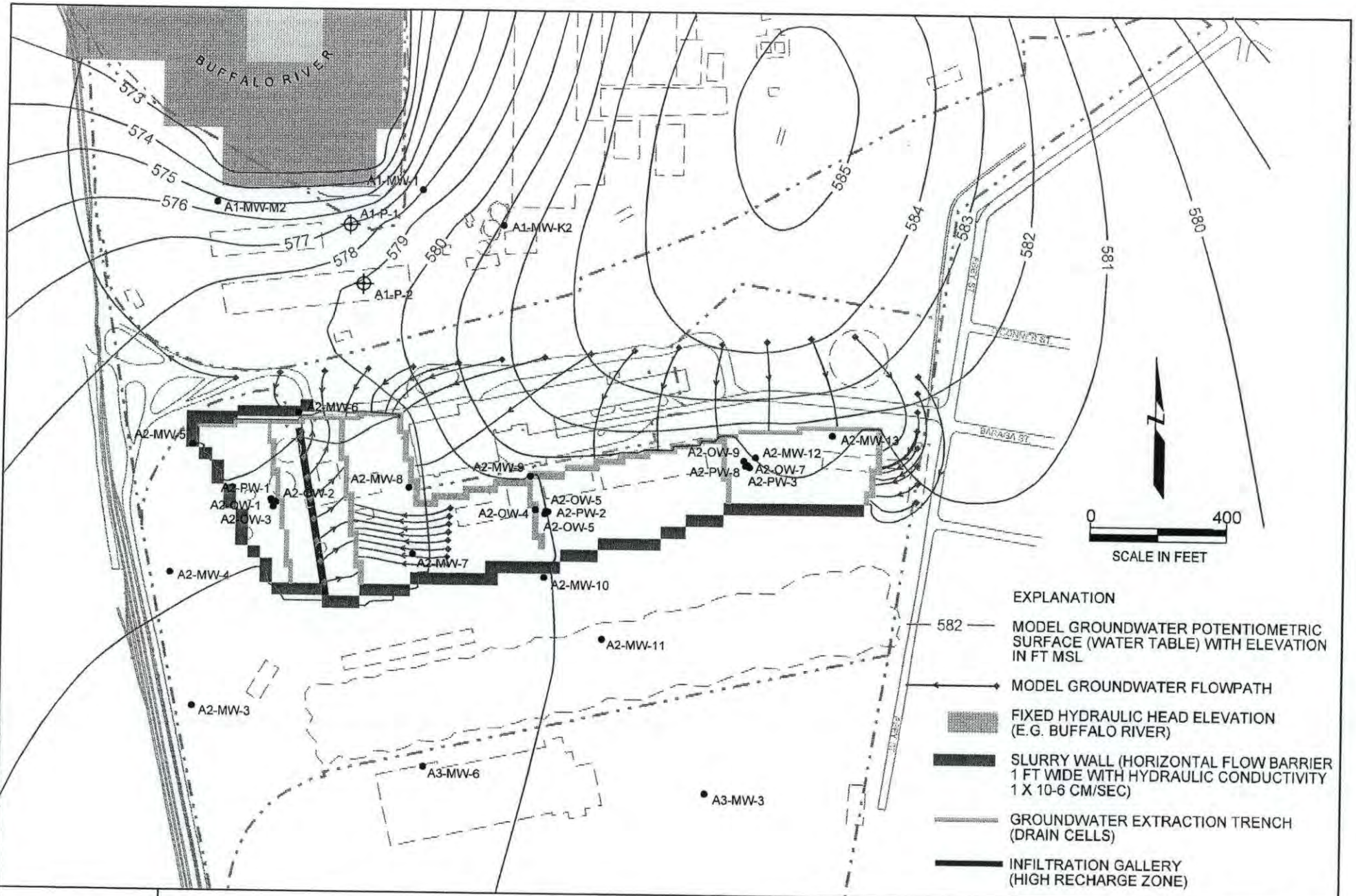
Notes:
1. In general accordance with the LTGWM Plan for each Area and based upon the groundwater results to date any parameter exceeding the groundwater quality standard for two (2) consecutive
2. " -- " = not analyzed for this parameter.
3. NA = indicates there have not been two consecutive exceedances of the GWQS/GV at this location and trending is "not applicable".

Color Code:

= Concentration versus time and 4-event moving average plots are provided in Attachment 2.

APPENDIX A

Geomatrix remedial approach groundwater flow model



GEOMATRIX

SIMULATED GROUNDWATER CONTOURS AND FLOWPATHS
REMEDIAL ALTERNATIVE 2
LTV Steel
Buffalo, New York

Figure
11

Project No.
B4991

MAP_WT3X.pen

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APPENDIX B

Historical Trend Analysis

APPENDIX B

Historical Trend Analysis

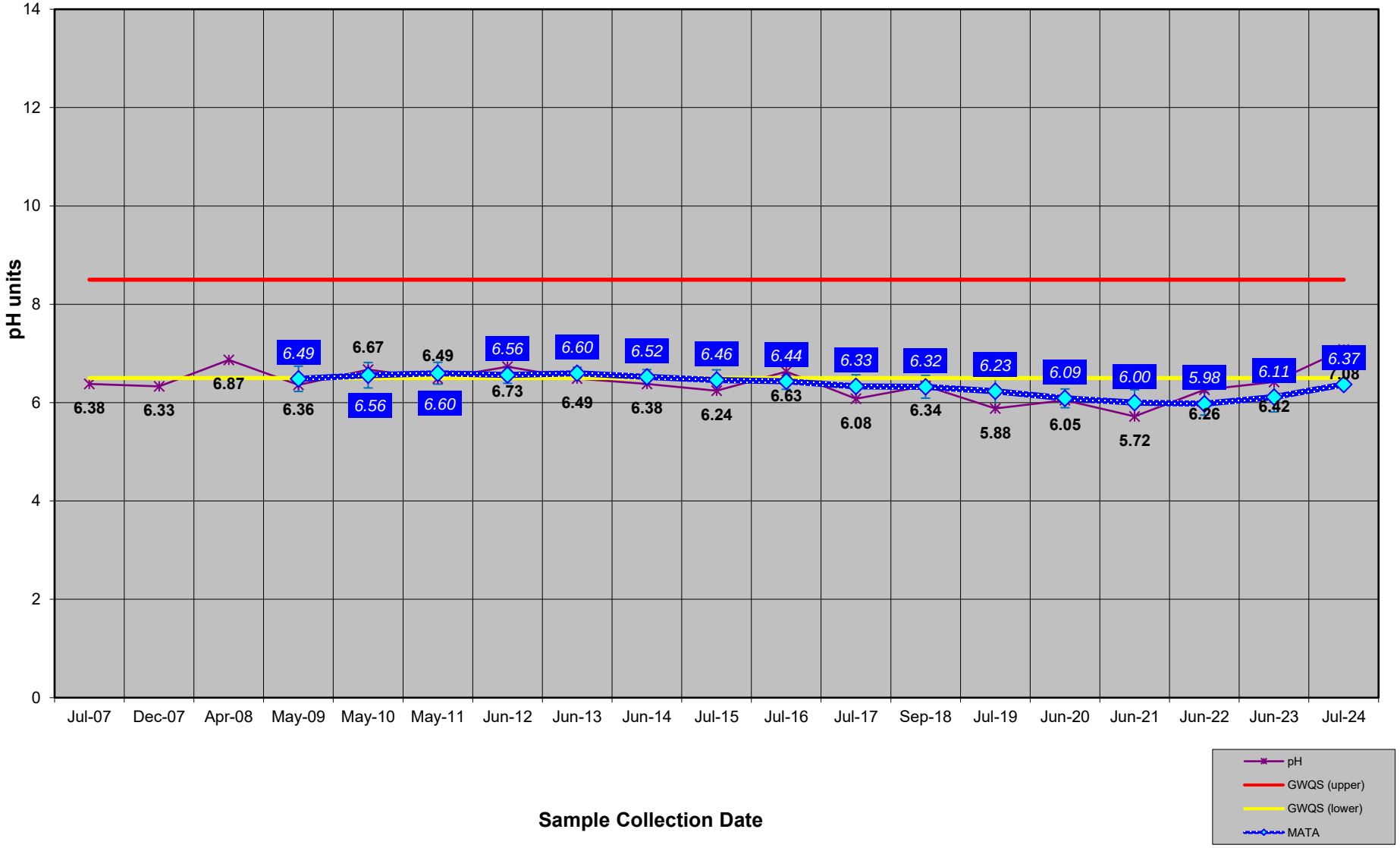
pH

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A2-MW-16
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



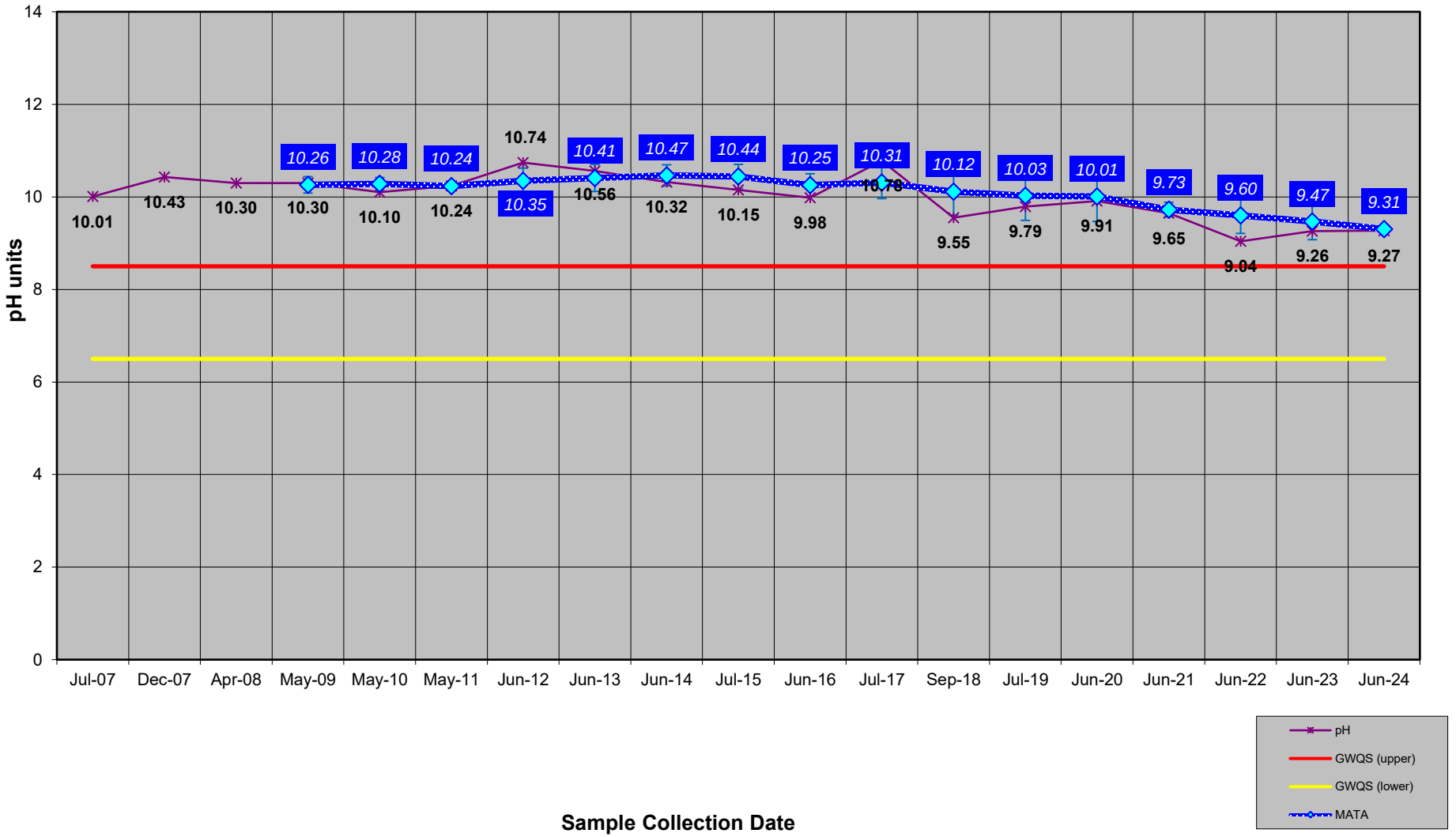
Sample Collection Date

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-7
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

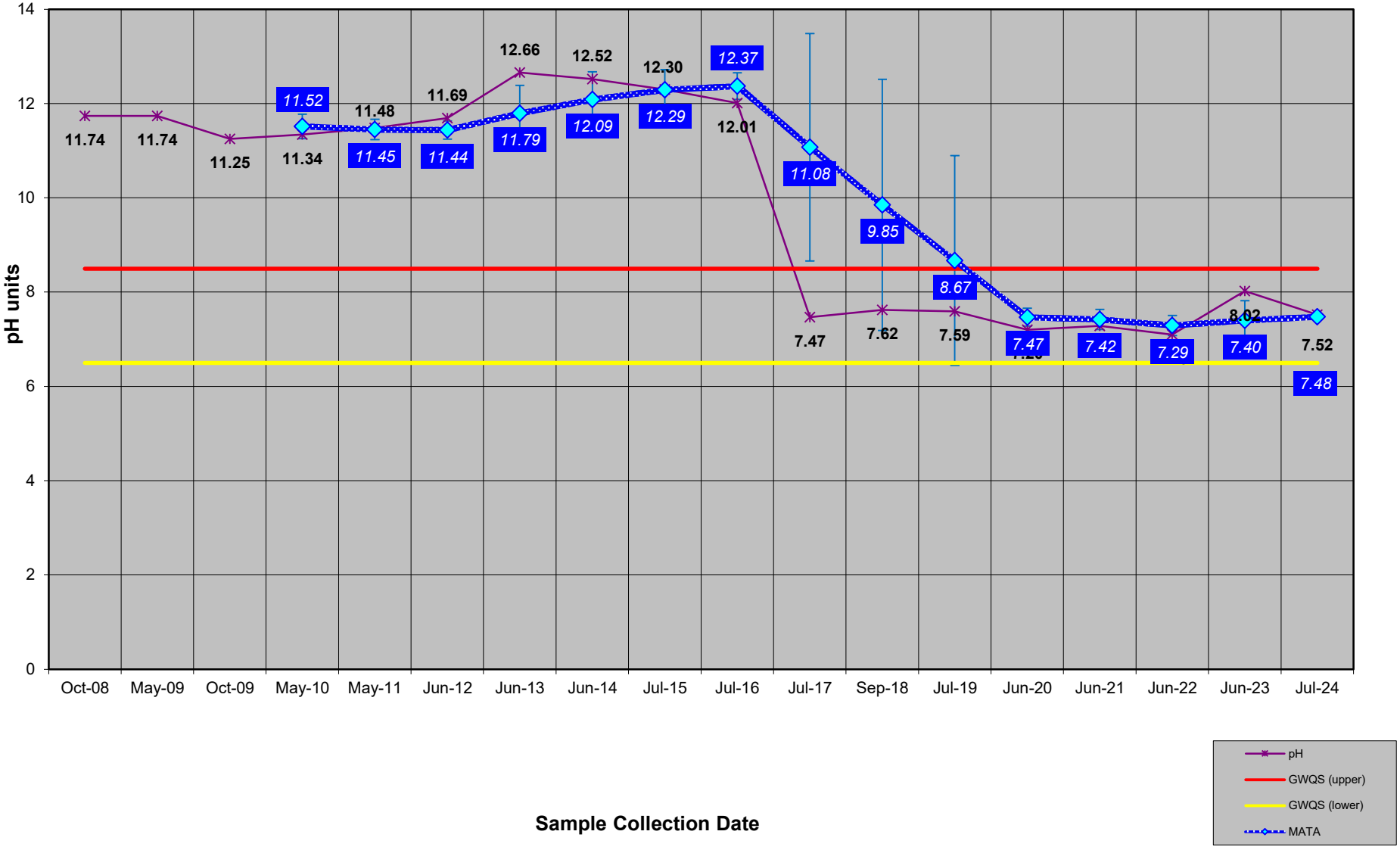


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-9
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



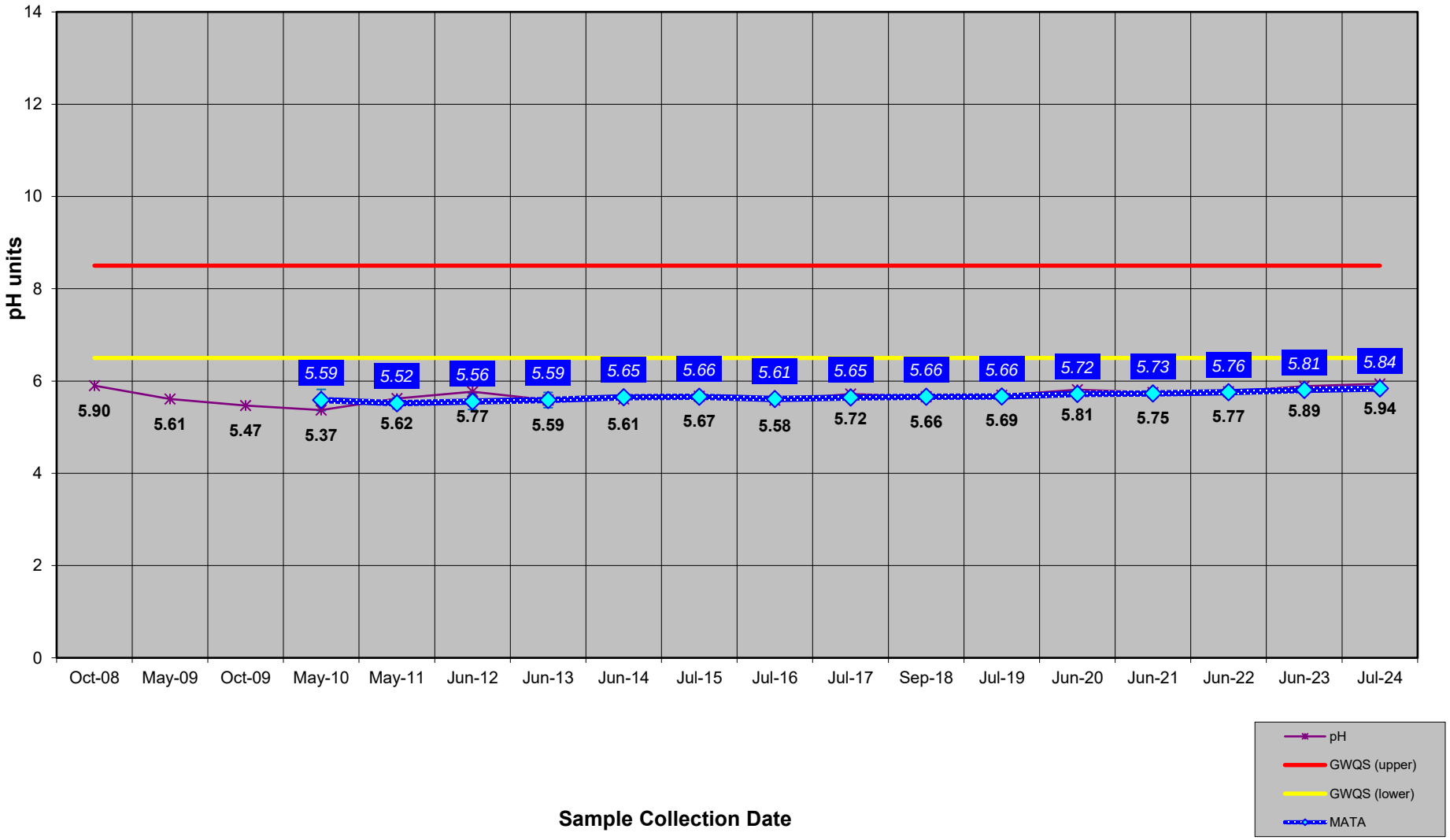
Sample Collection Date

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-10
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

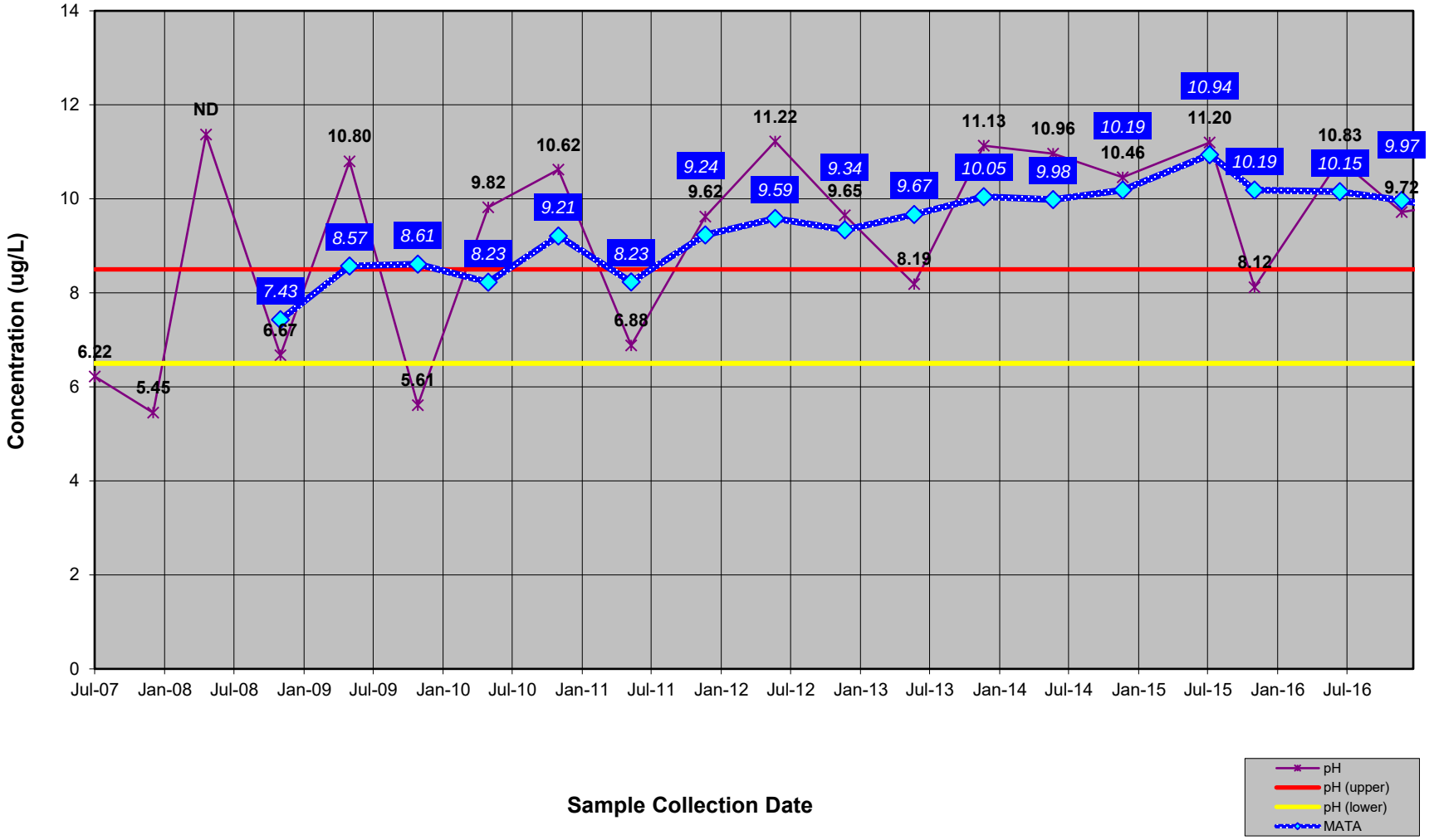


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-1
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

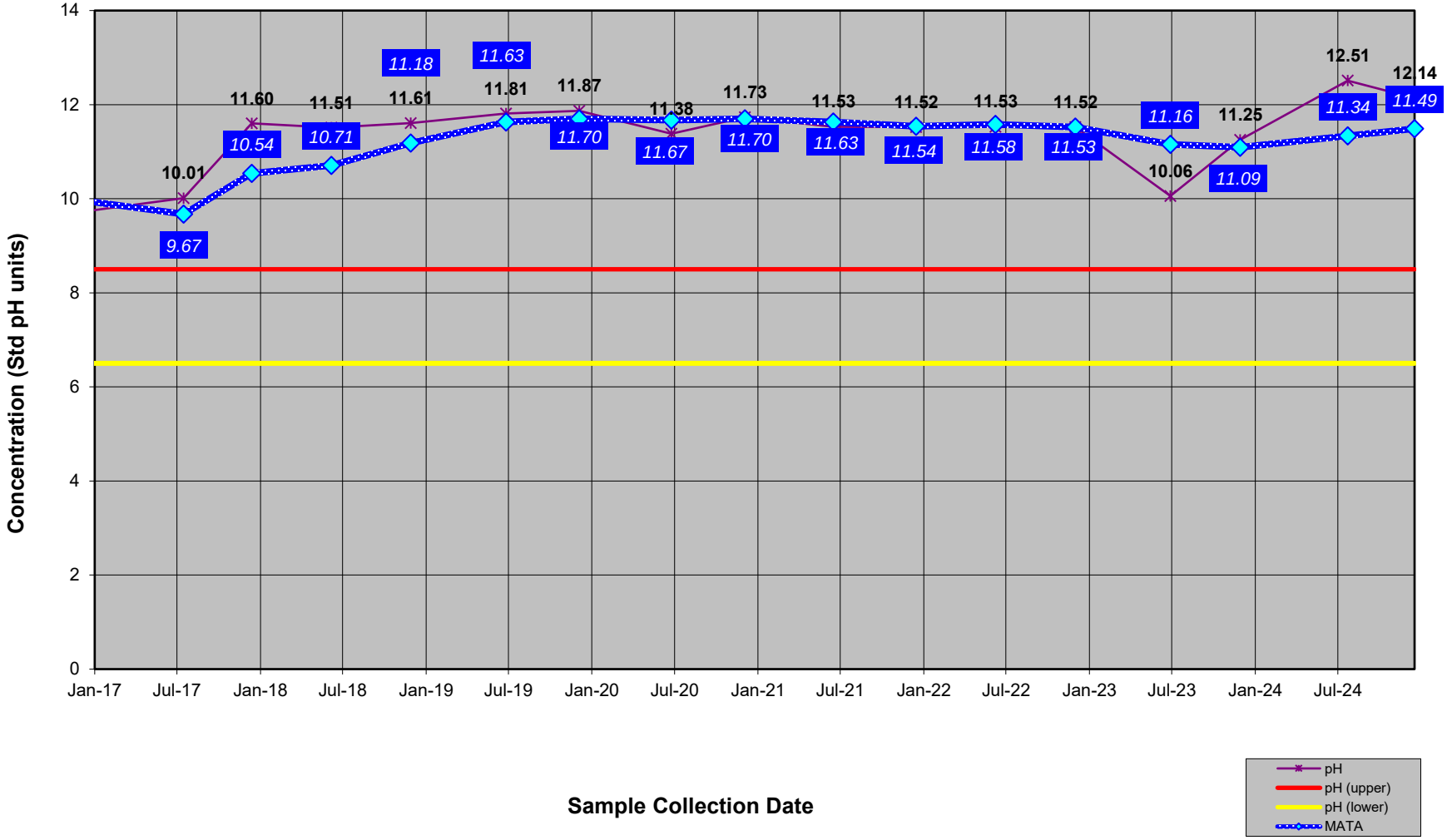


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-1
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

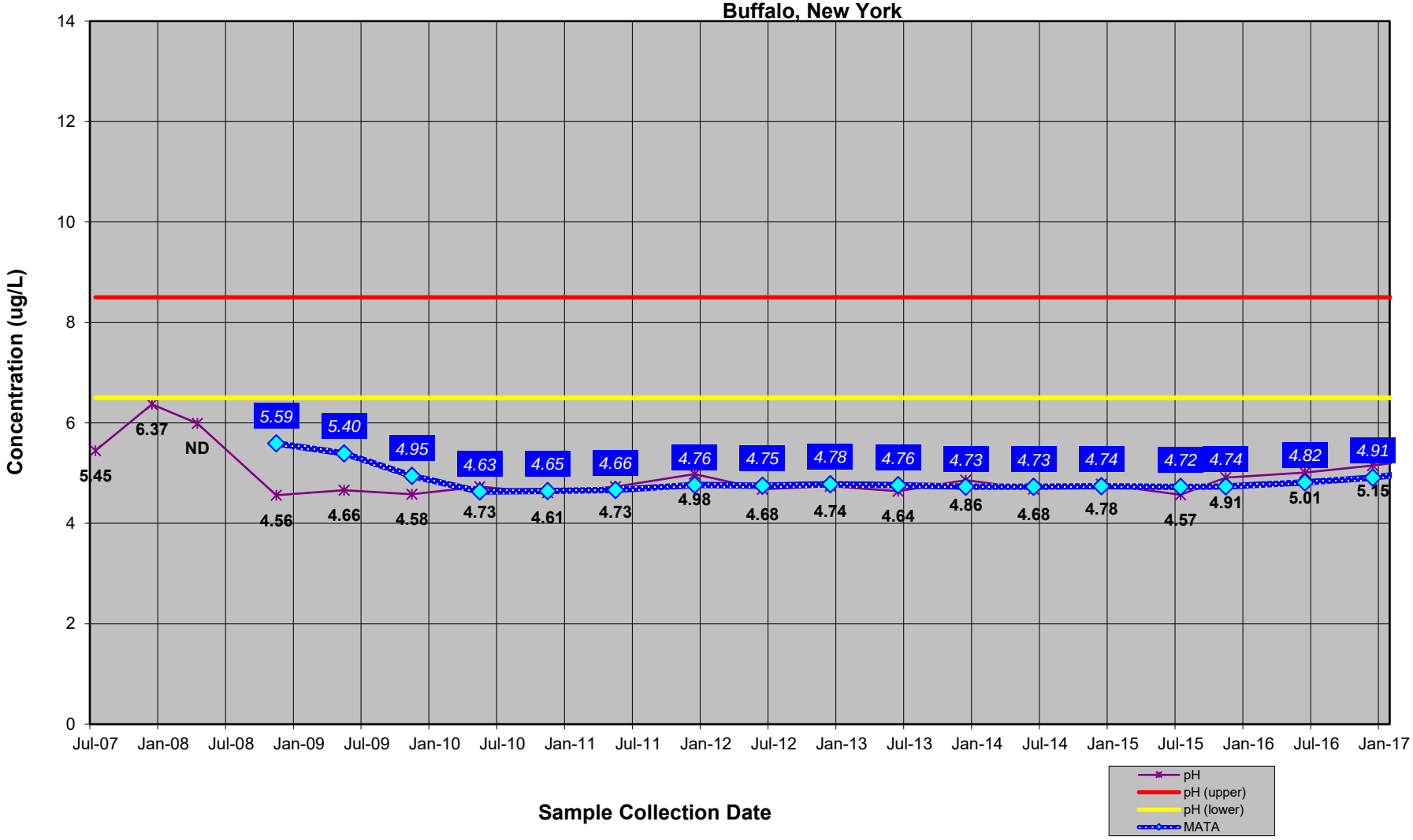


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-2
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

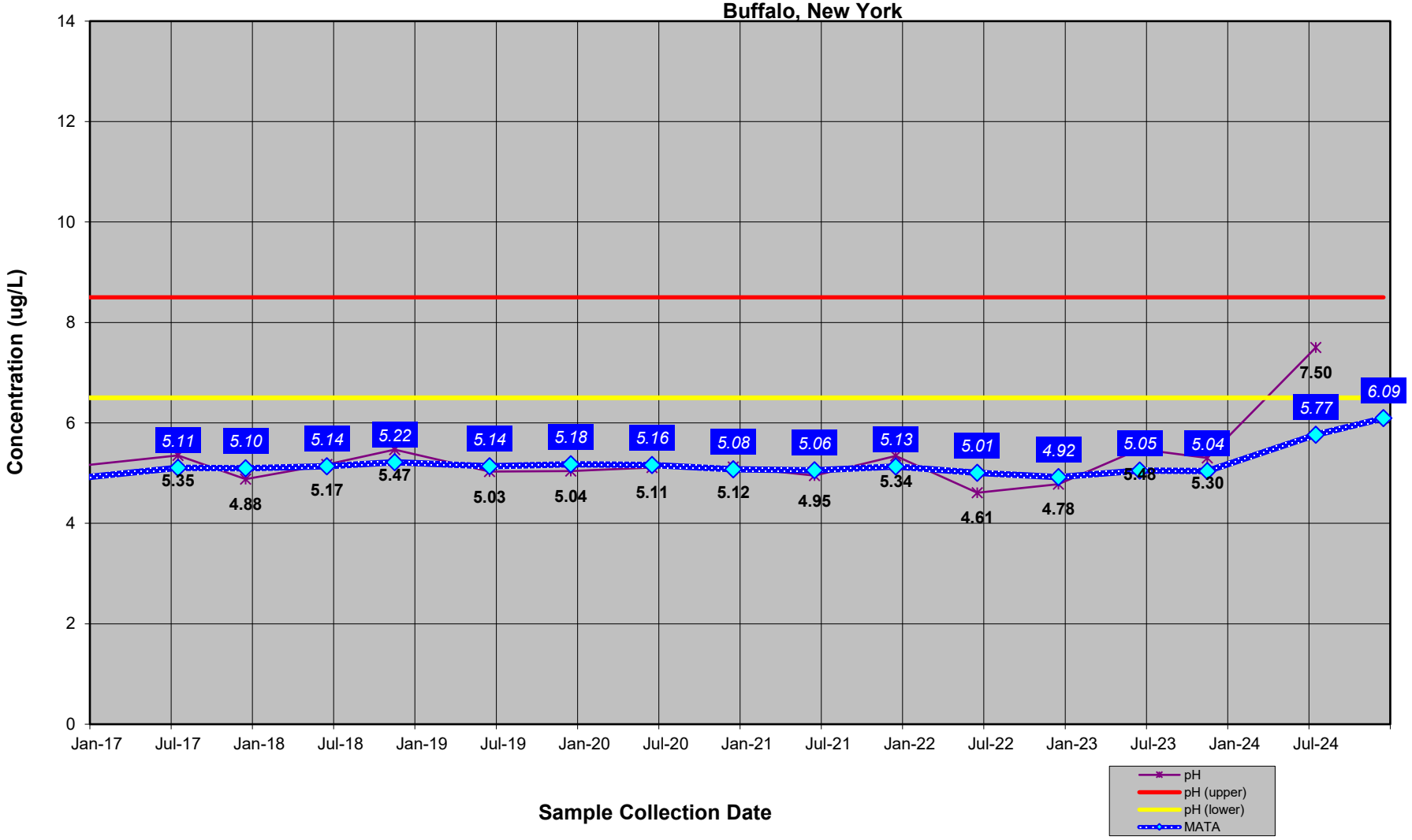


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-2
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

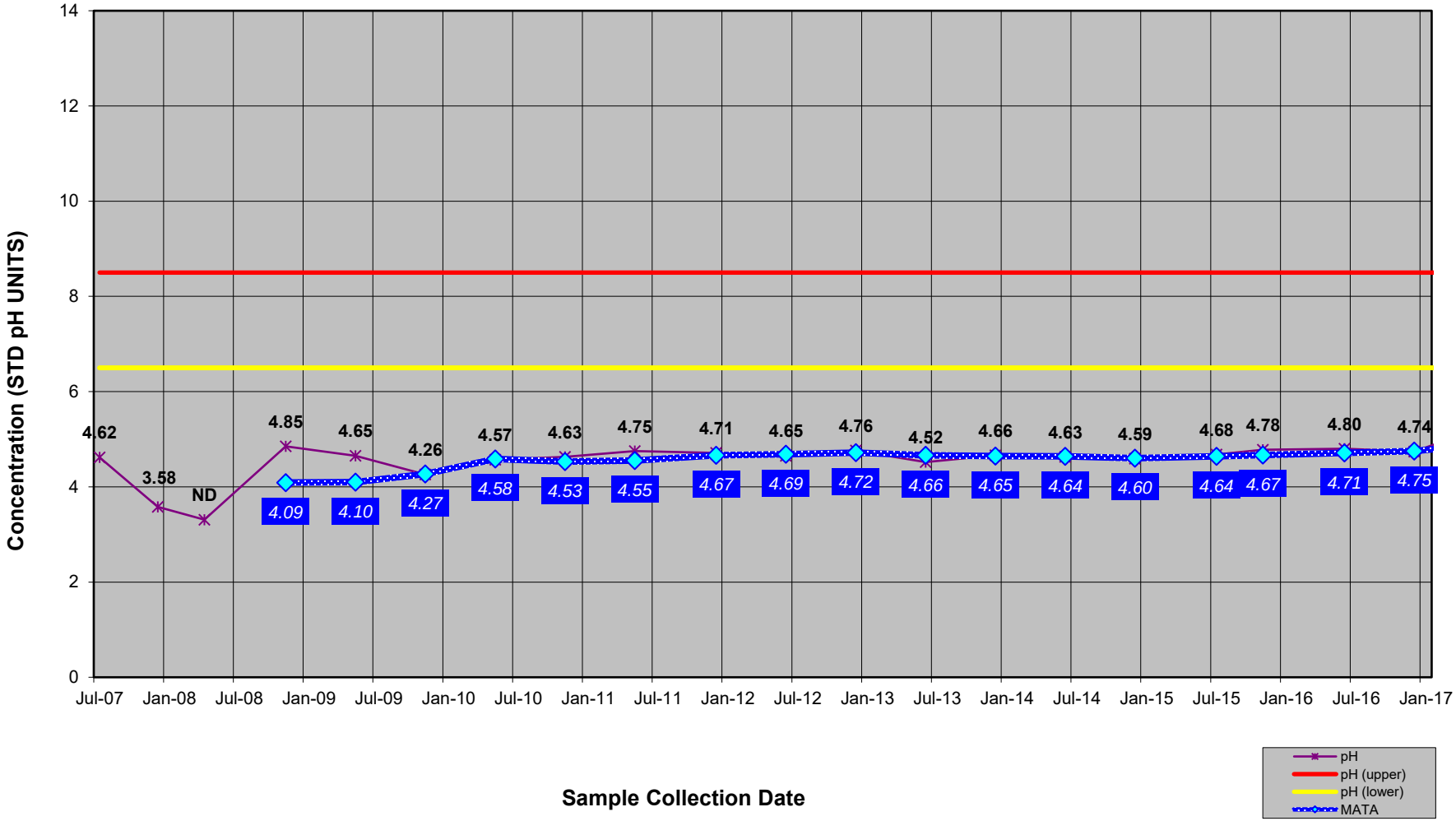


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-3
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

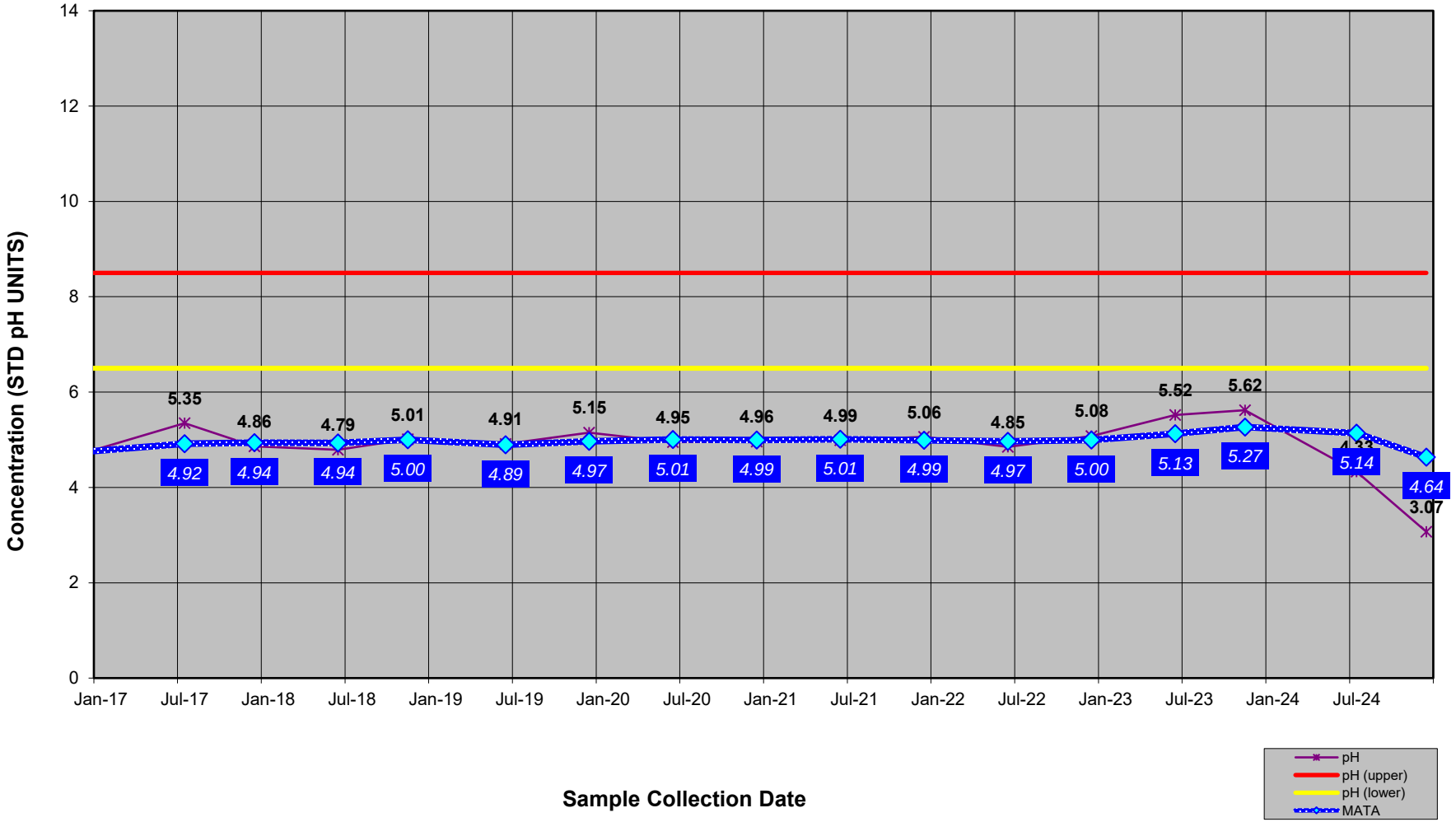


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-3
pH

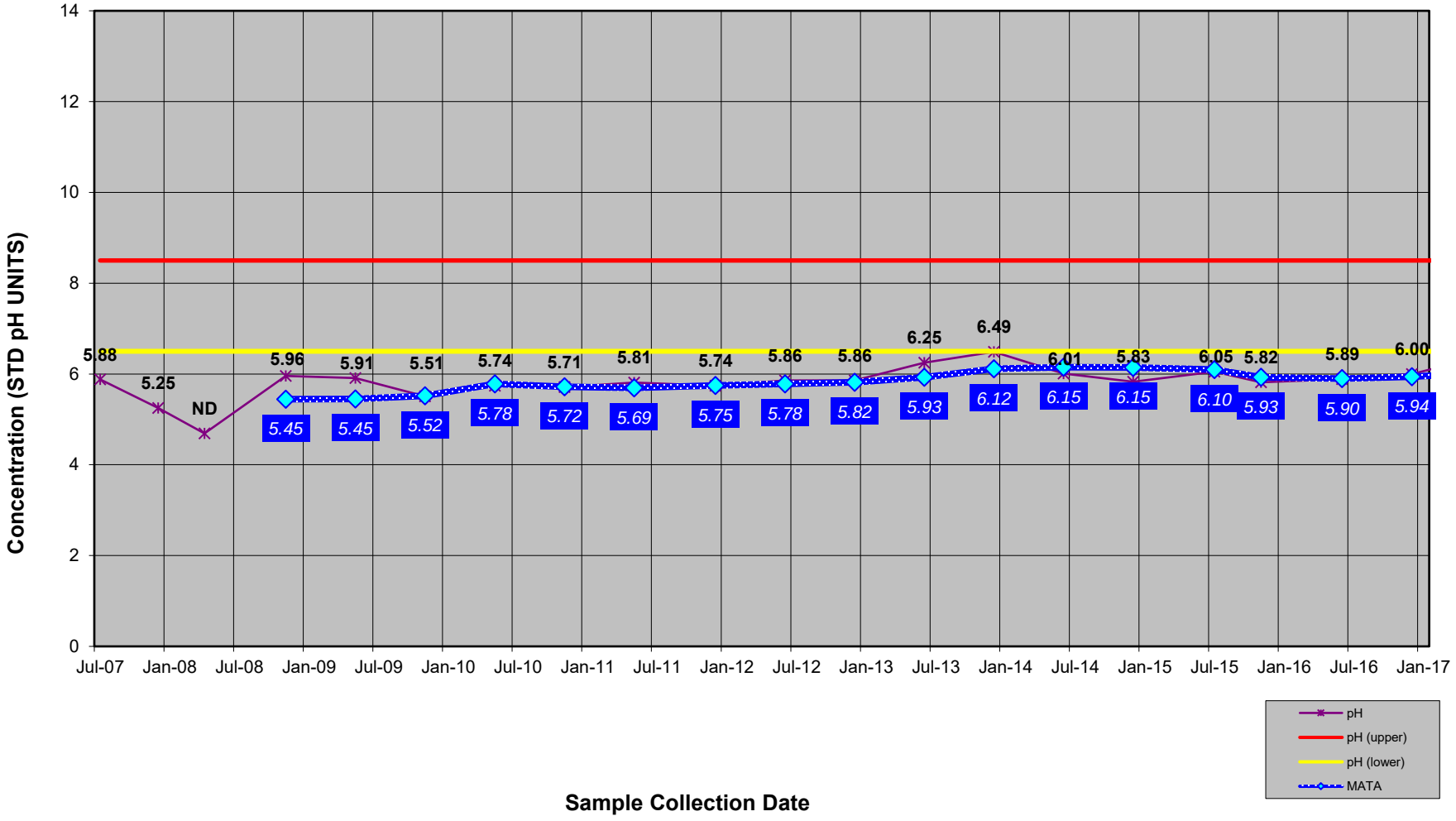
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-4
pH

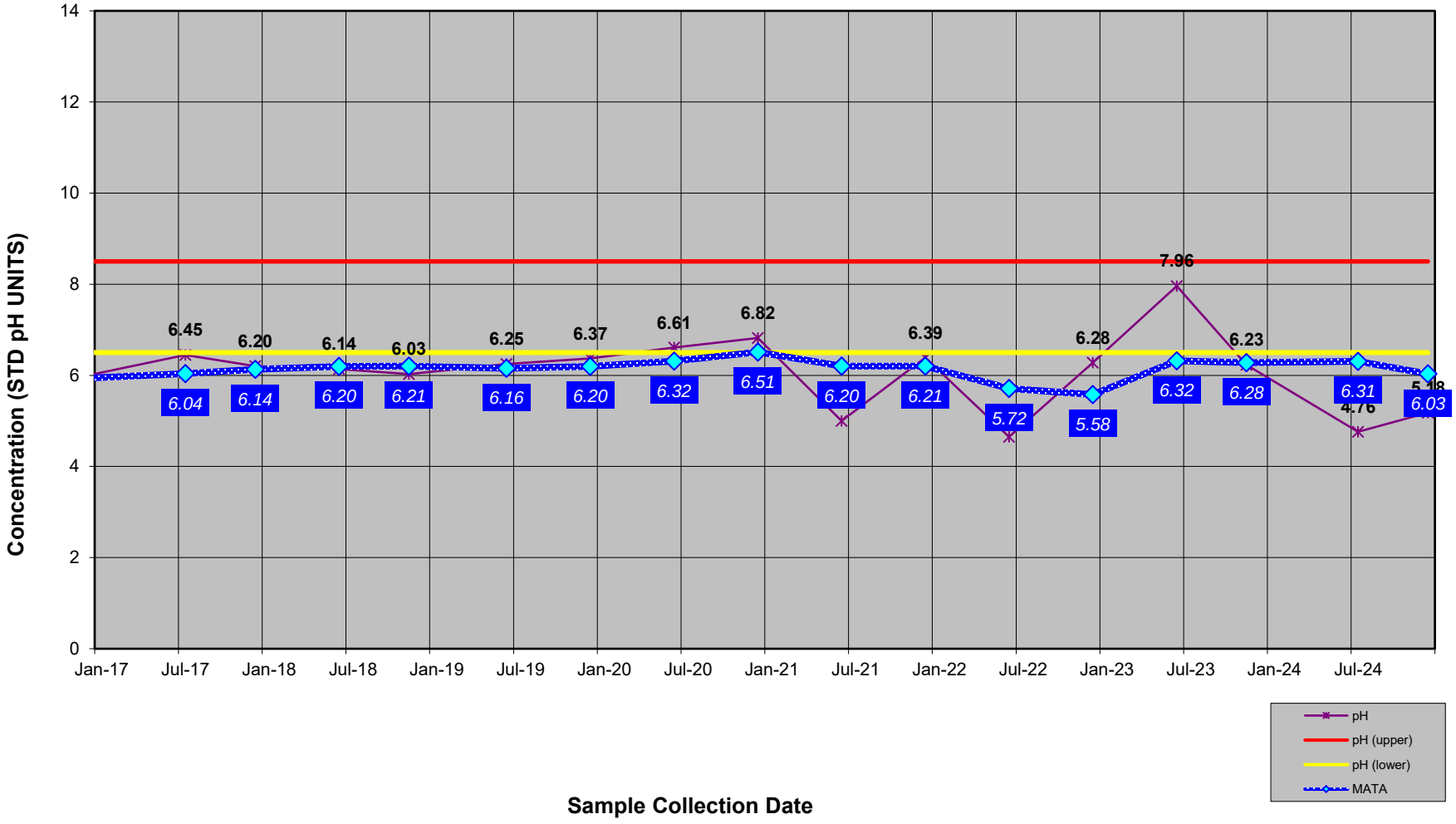
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-4
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

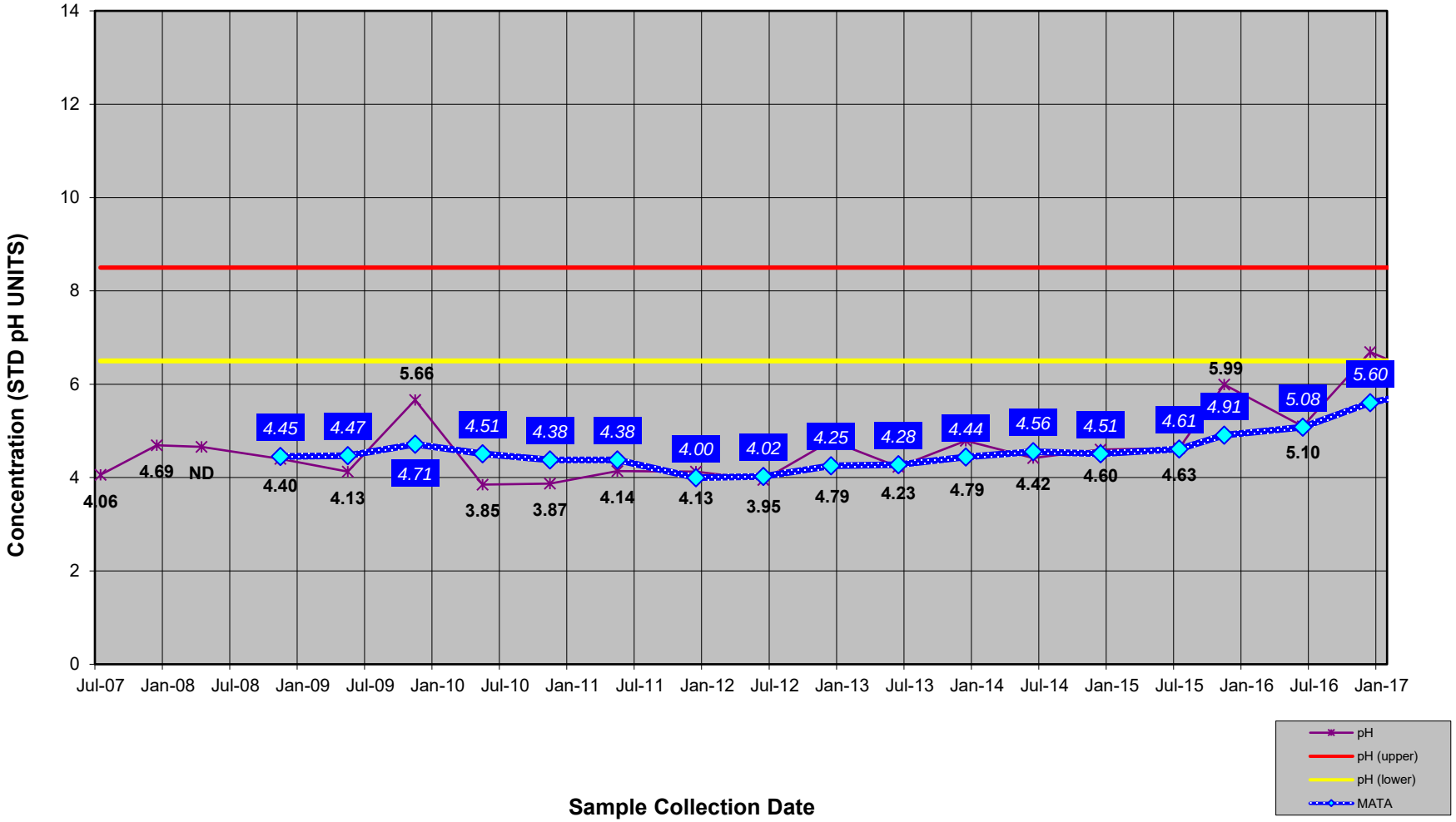


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-5
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

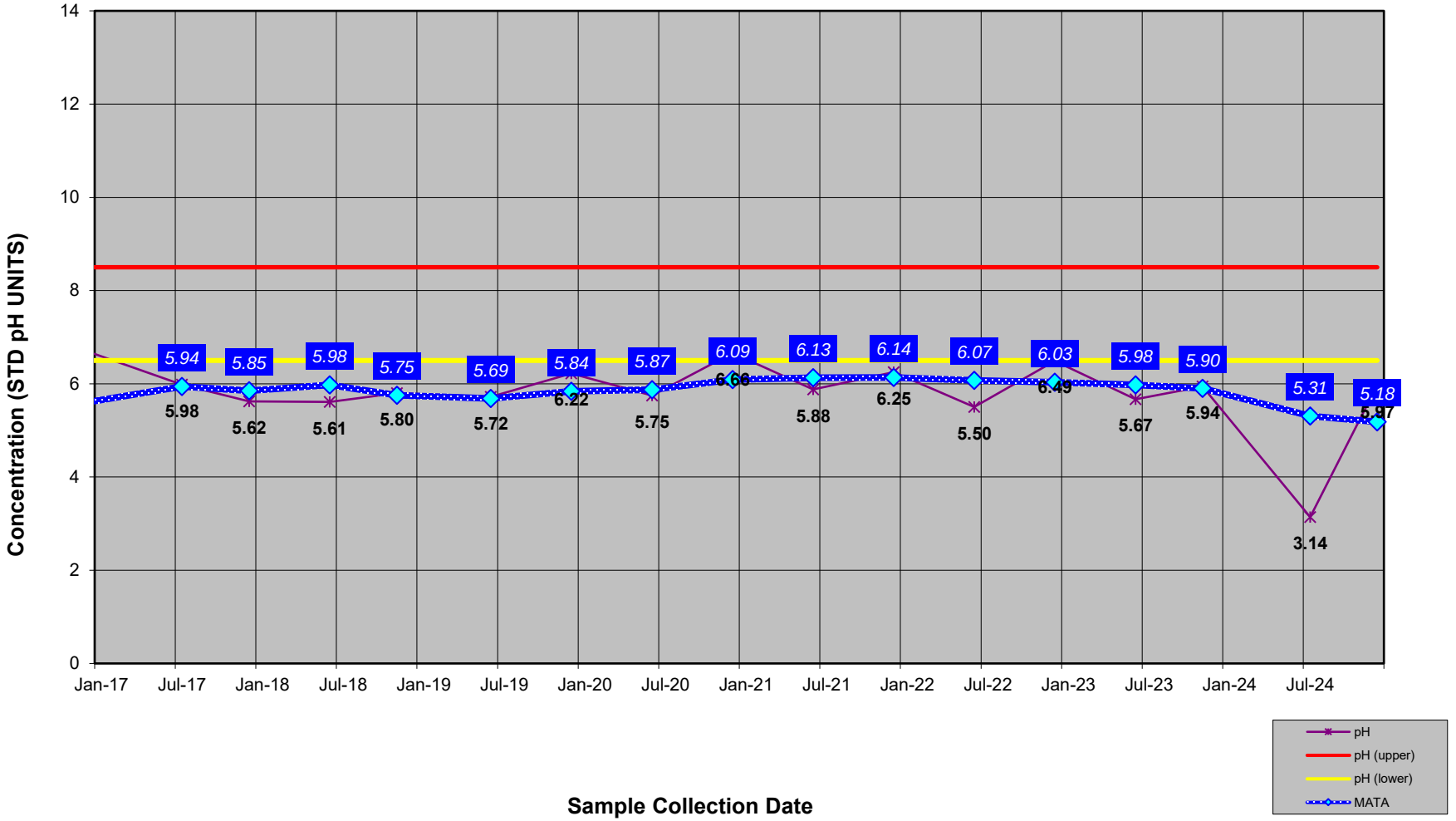


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-5
pH

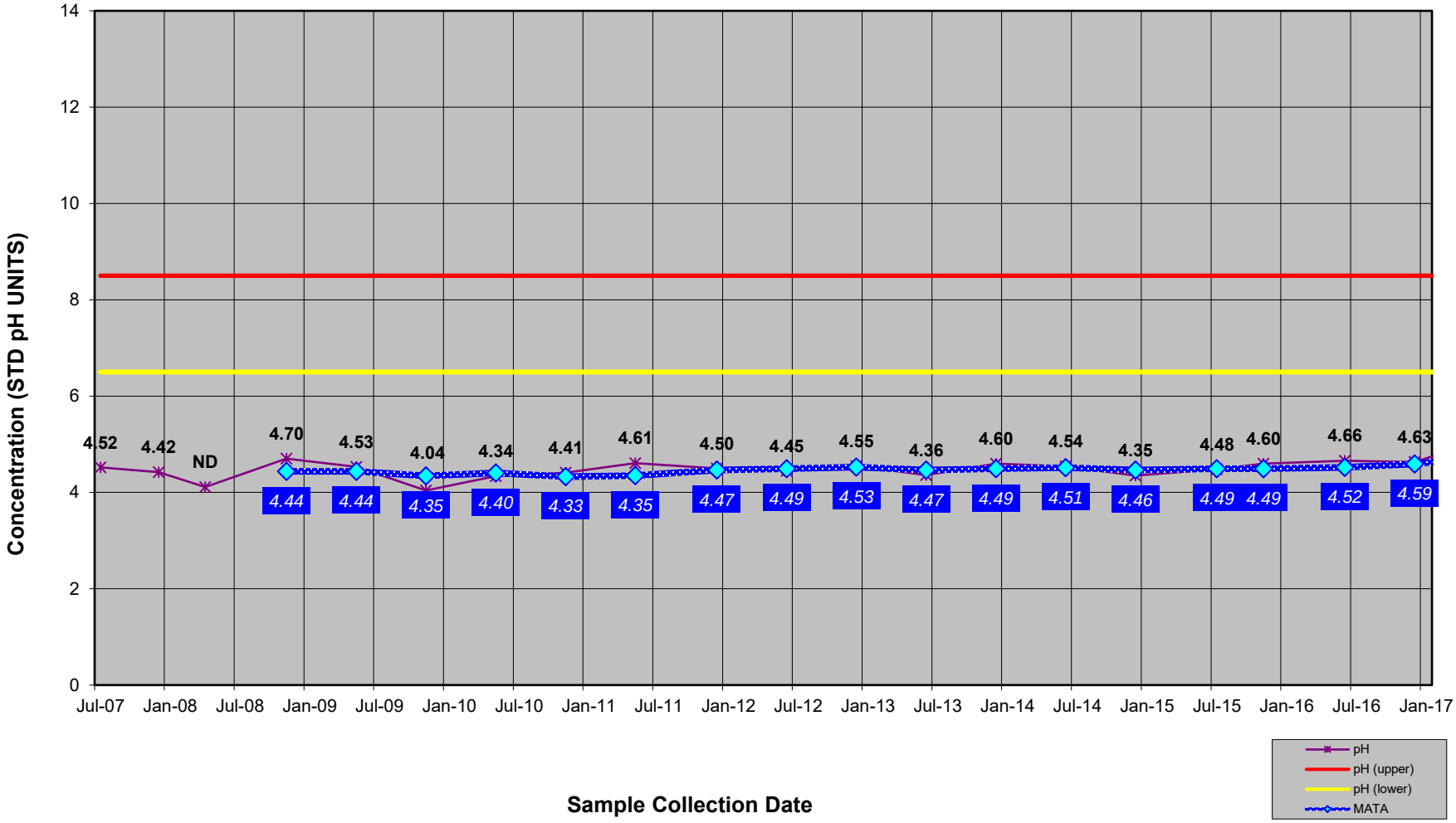
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-6
pH

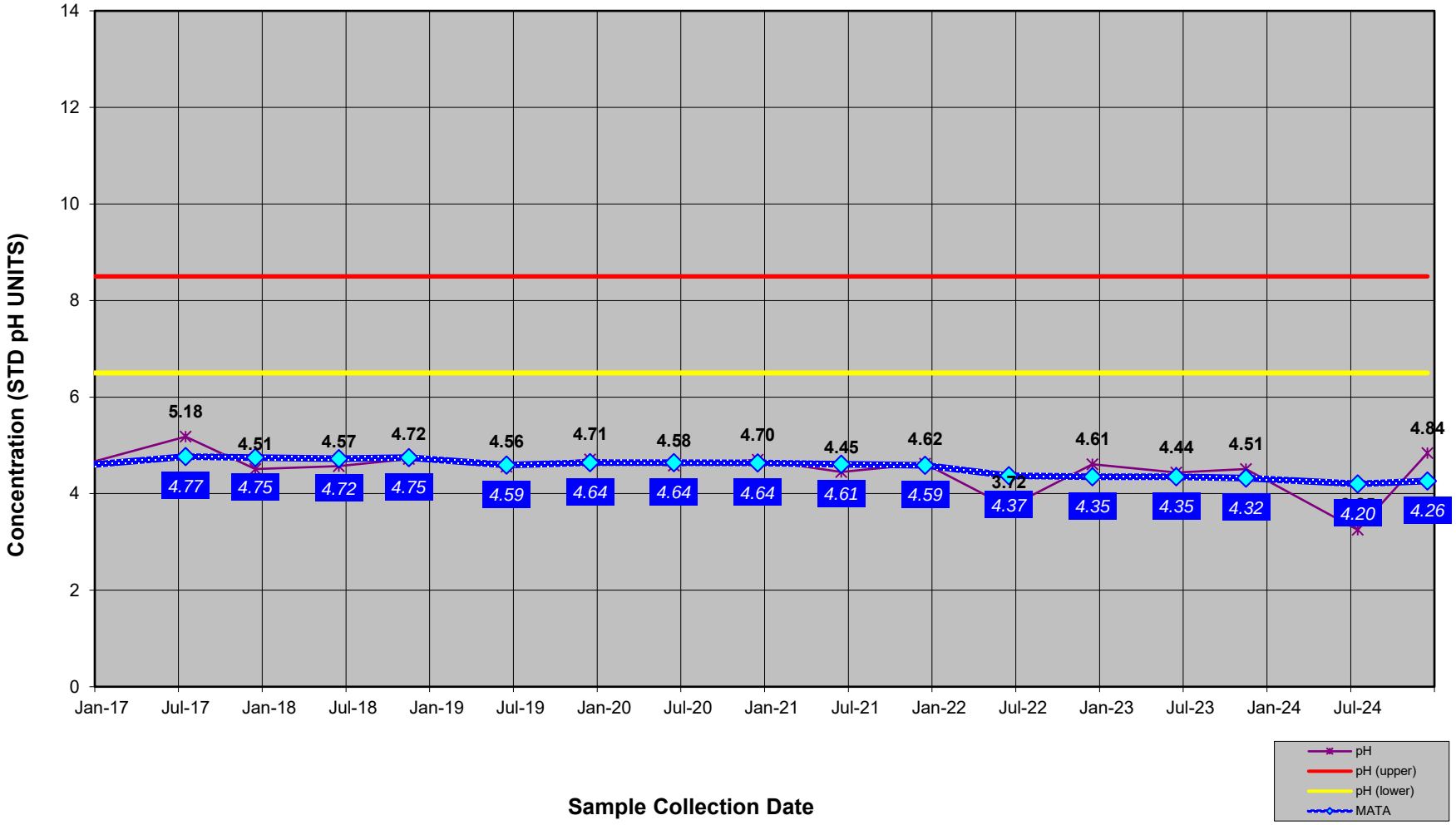
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-6
pH

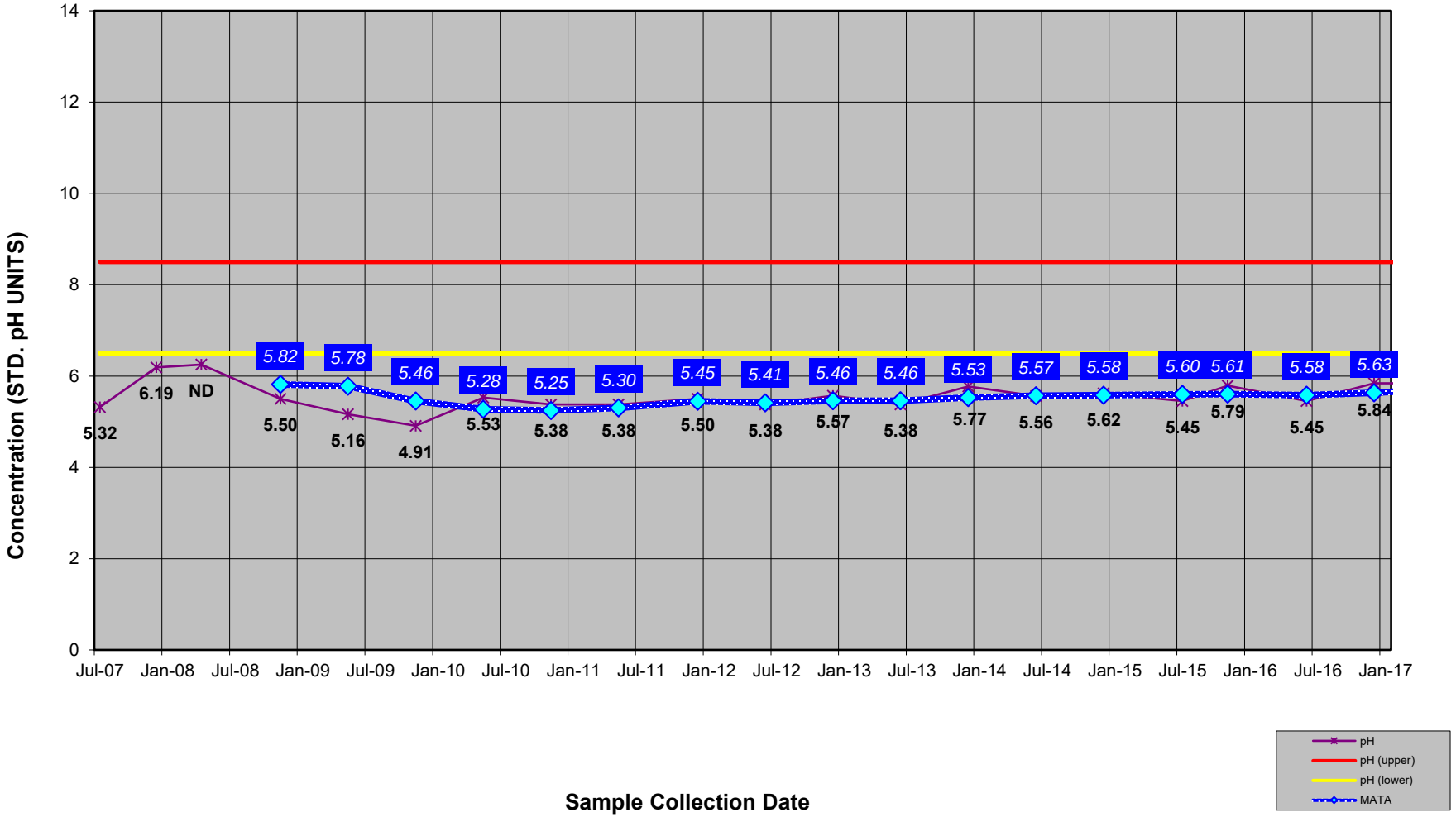
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-7
pH

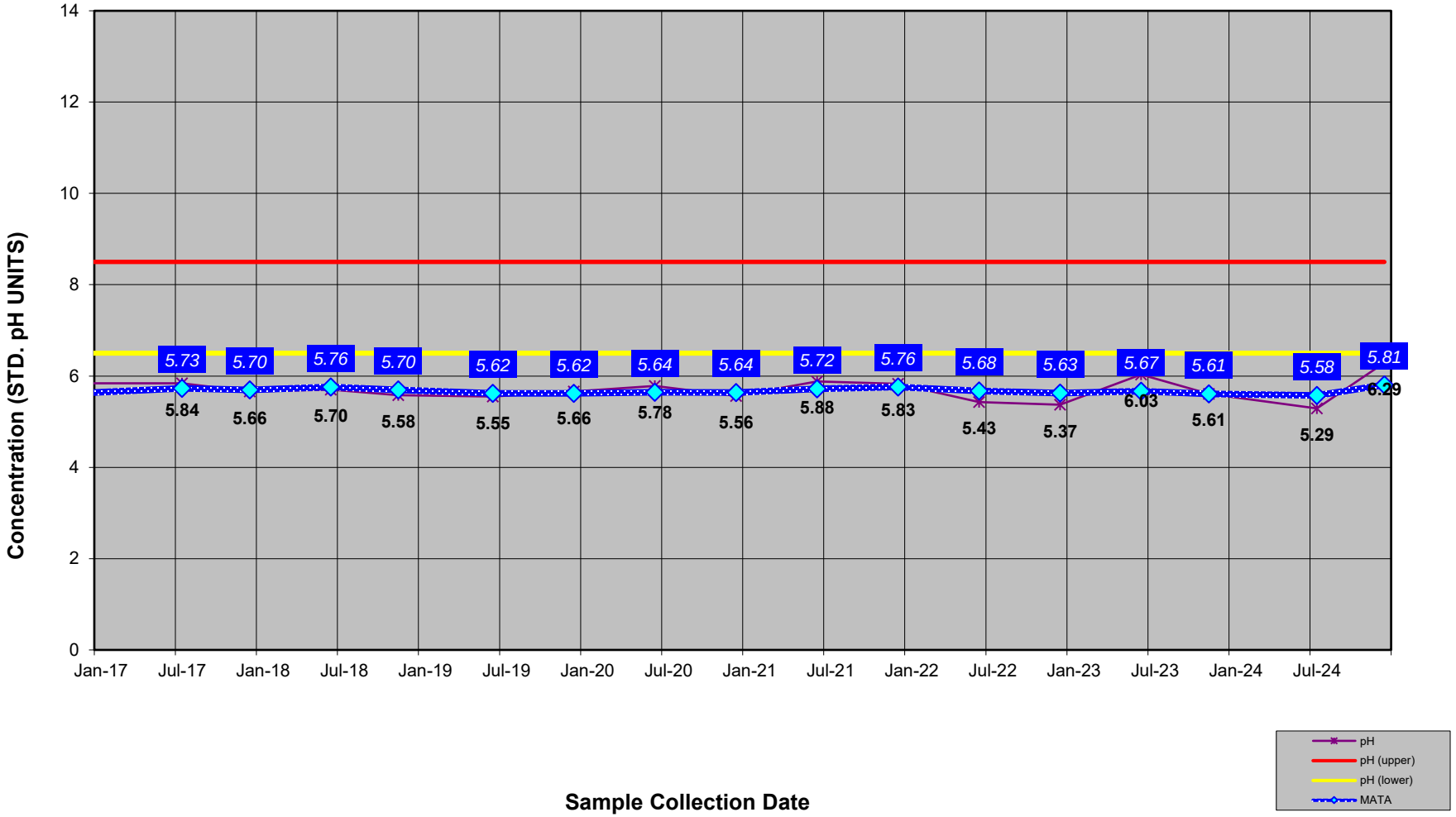
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-7
pH

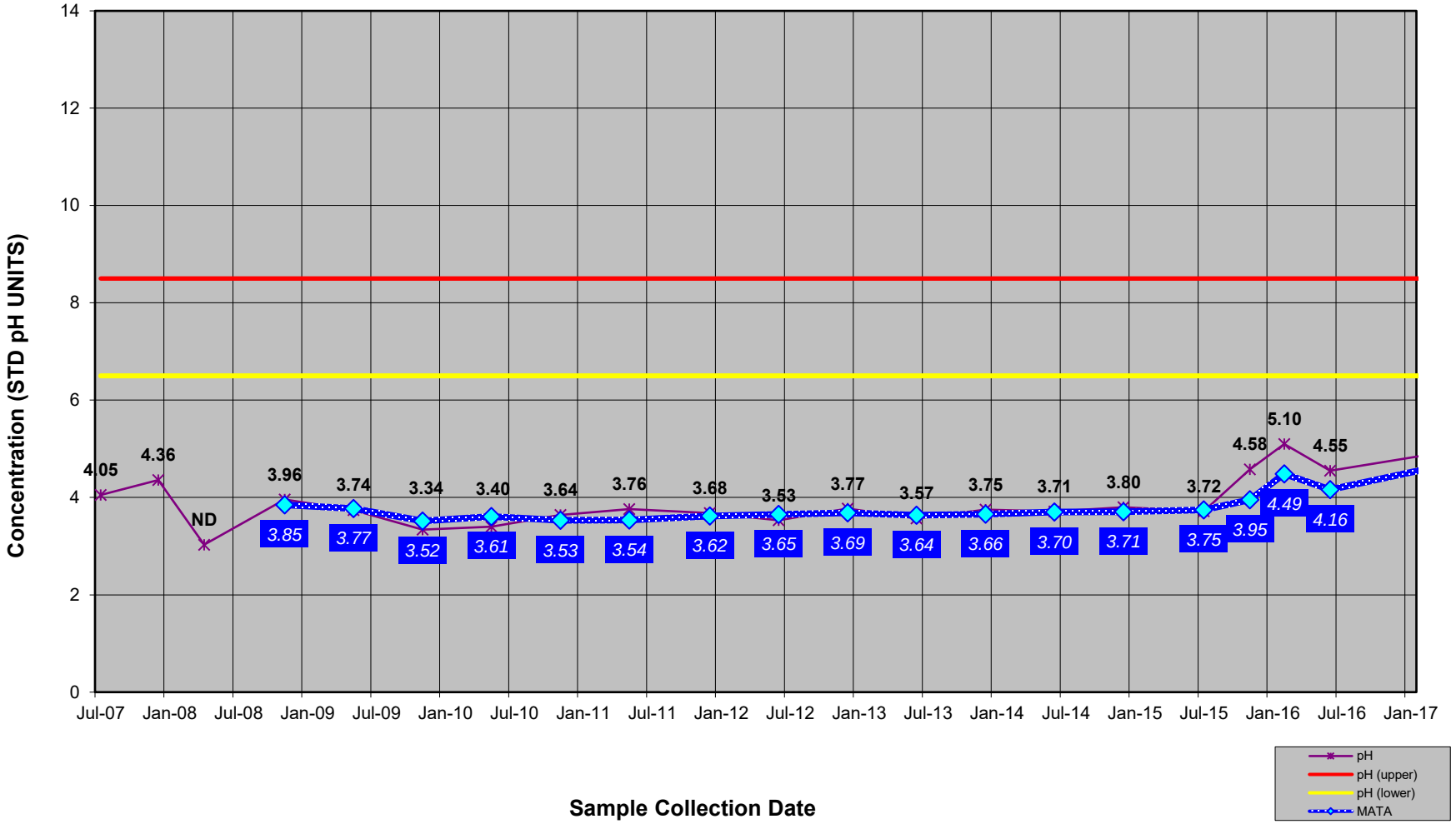
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-8
pH

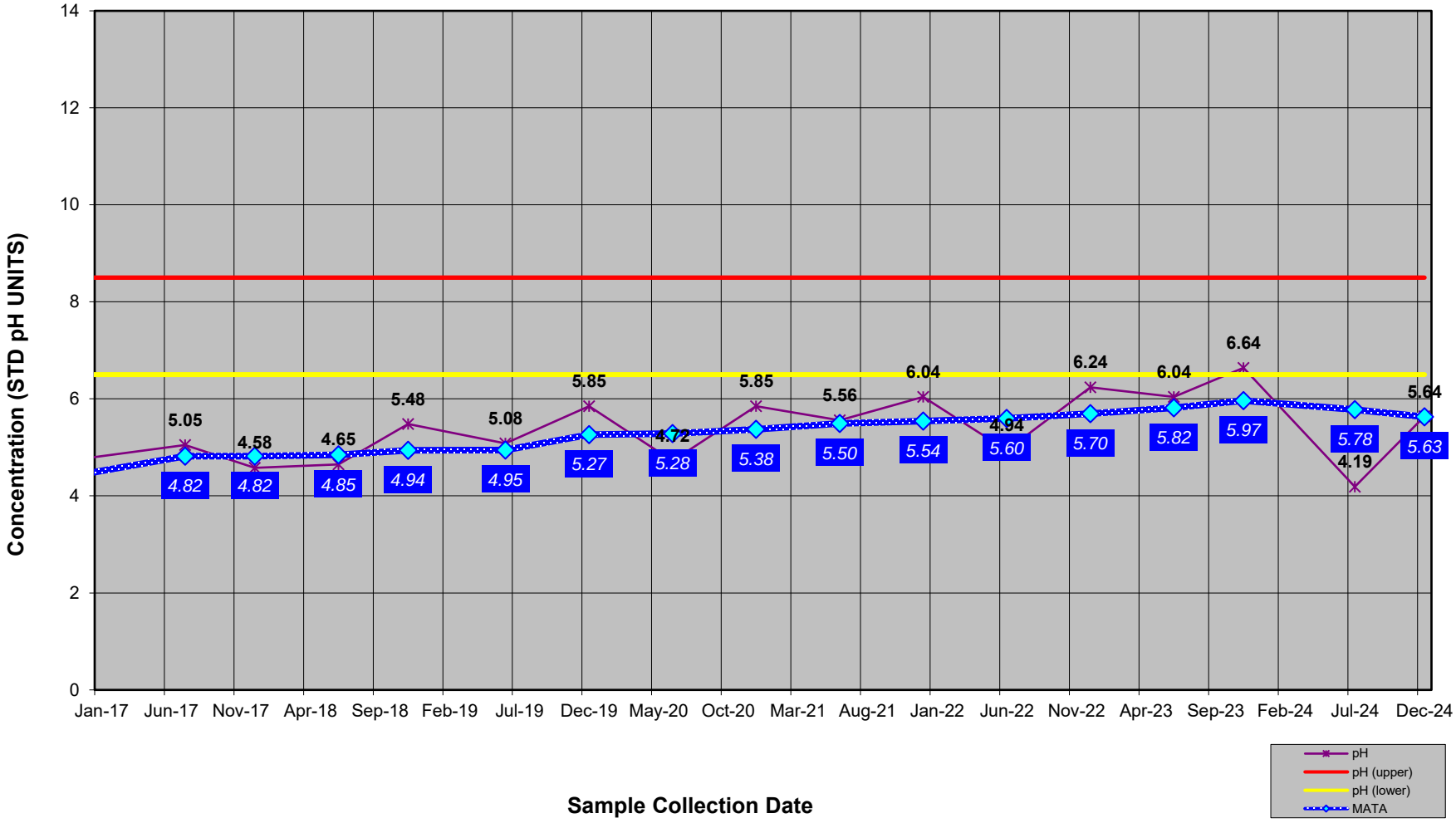
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-8
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

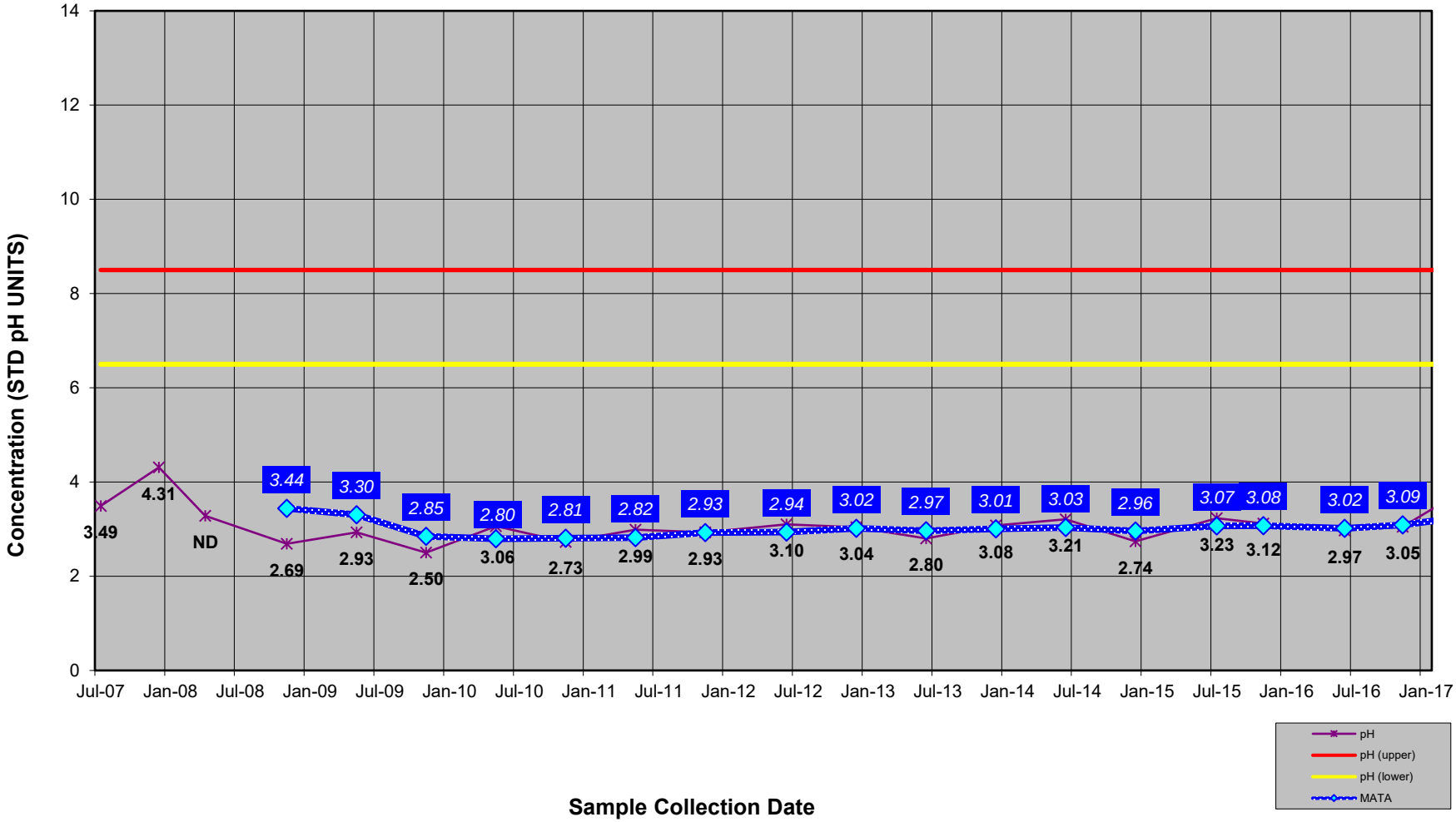


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-9
pH

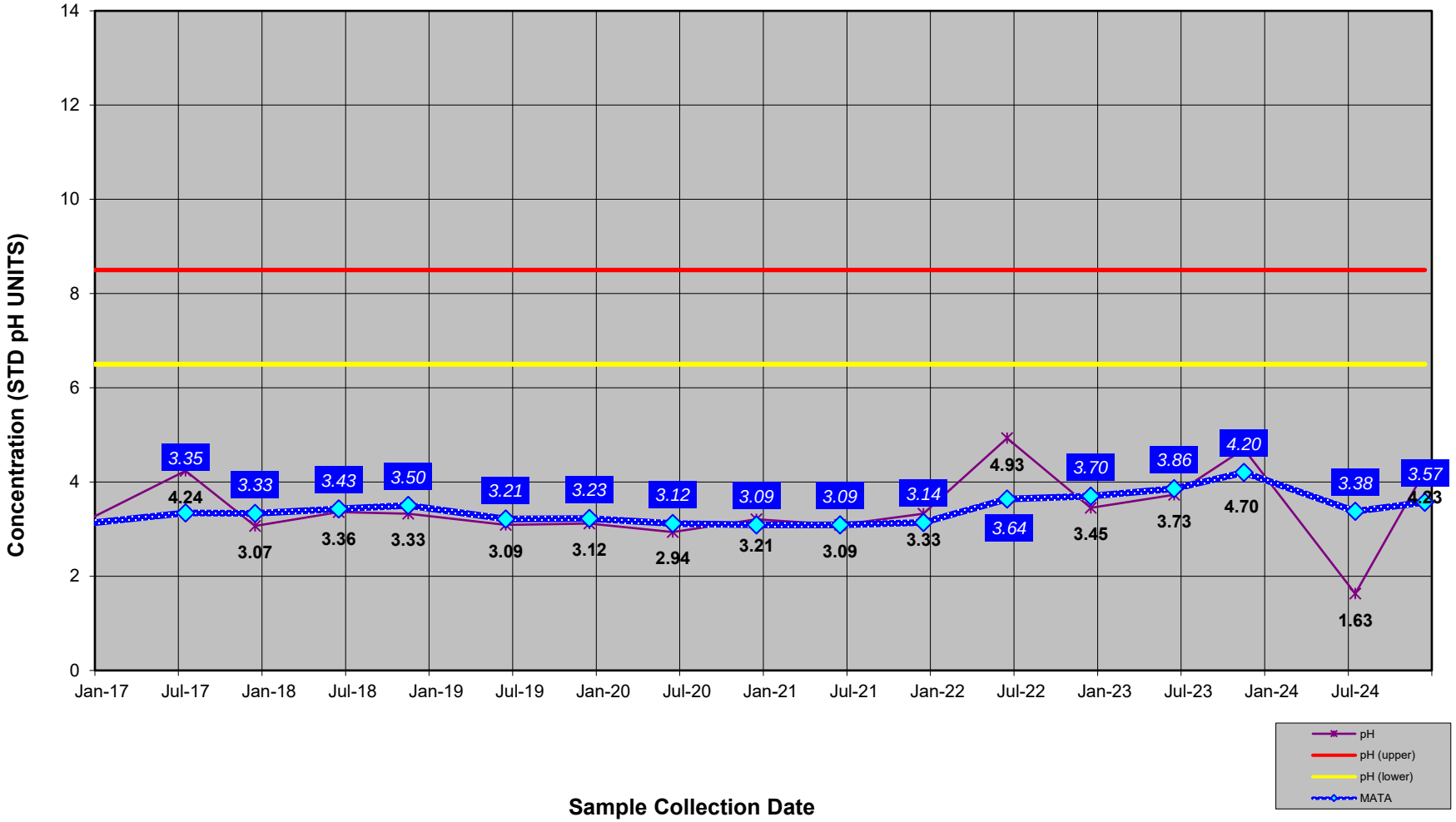
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-9
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

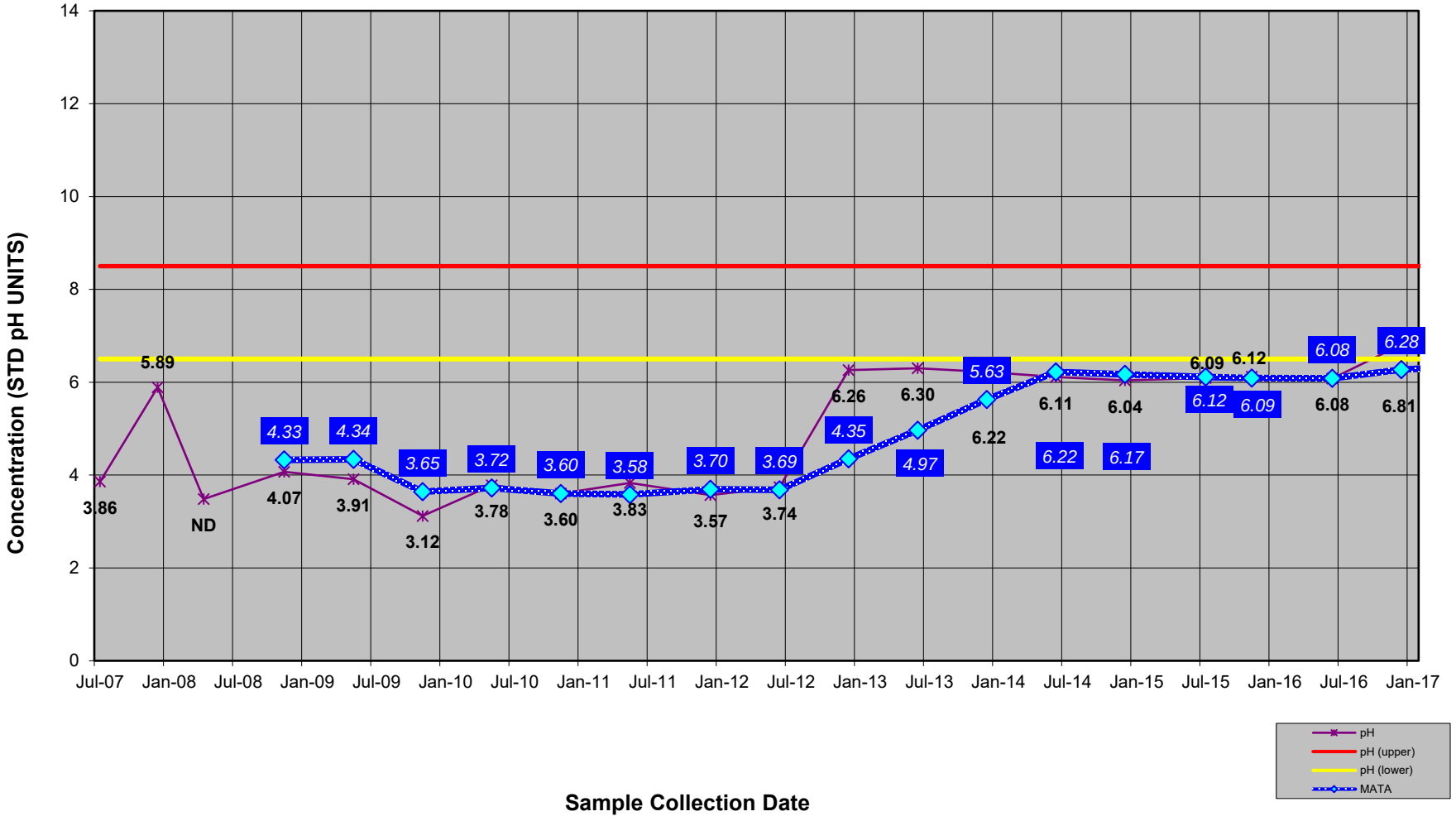


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-10
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

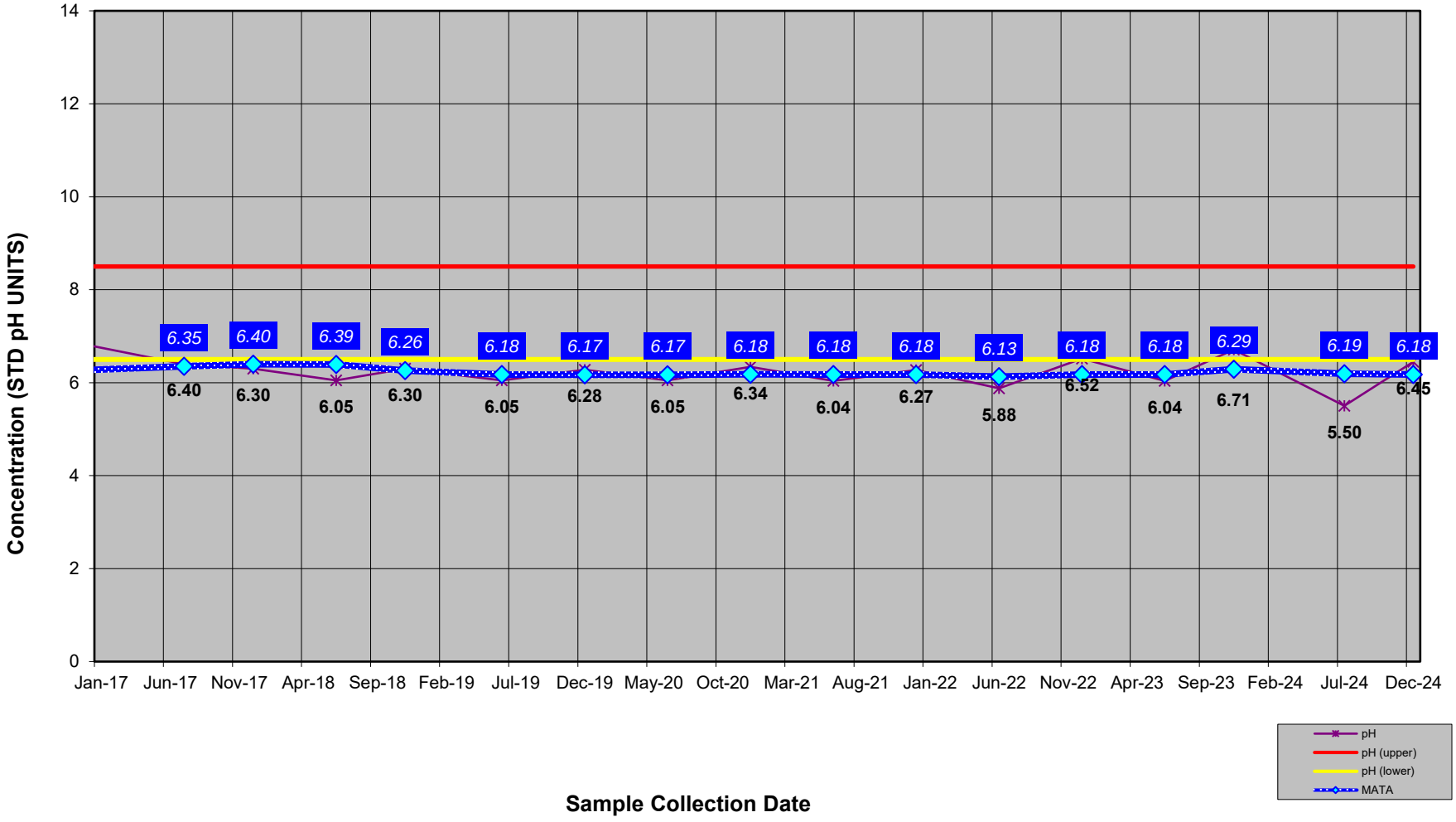


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-10
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

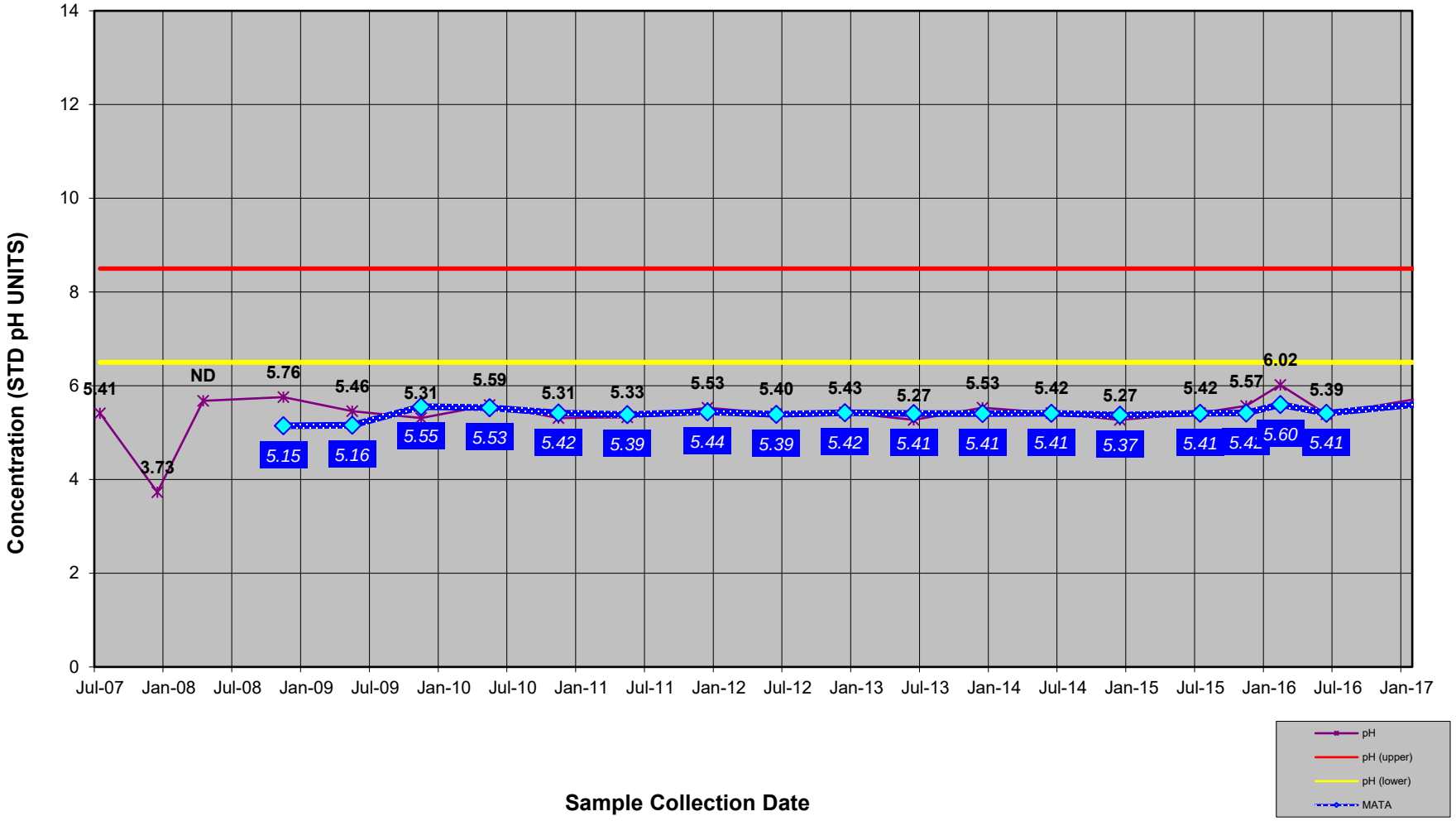


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-11
pH

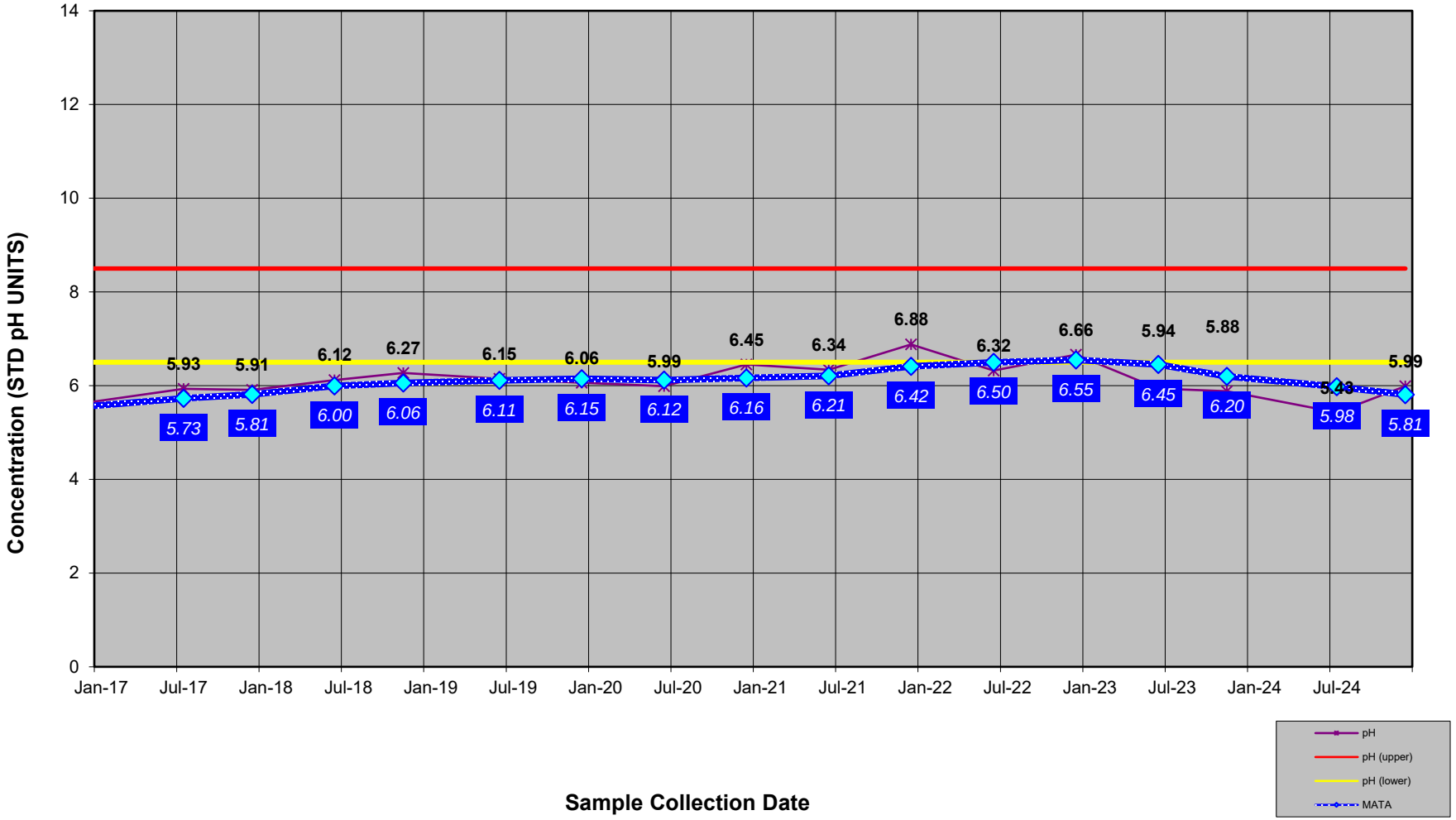
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-11
pH

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



APPENDIX B

Historical Trend Analysis

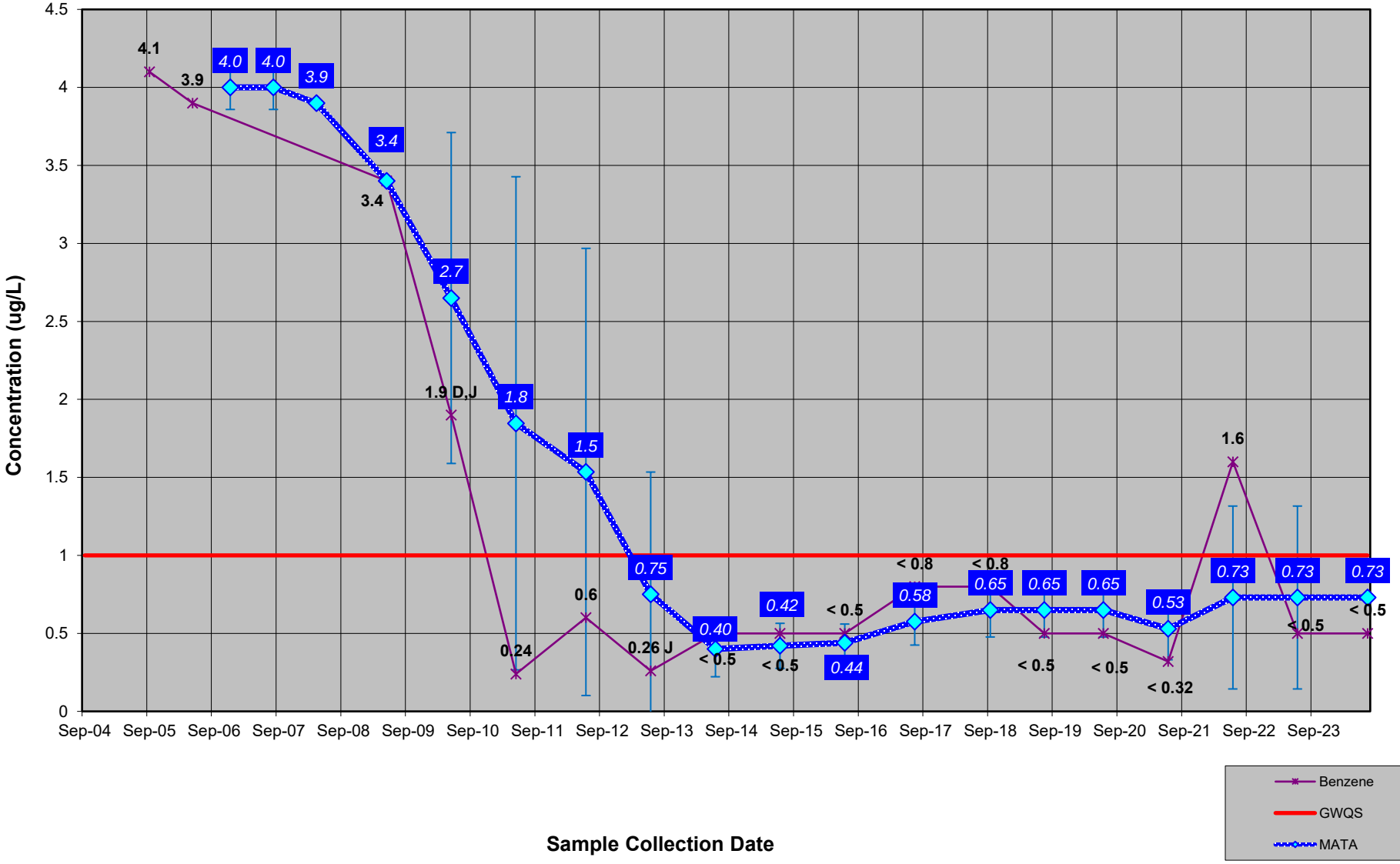
Benzene

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A1-MW-6
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



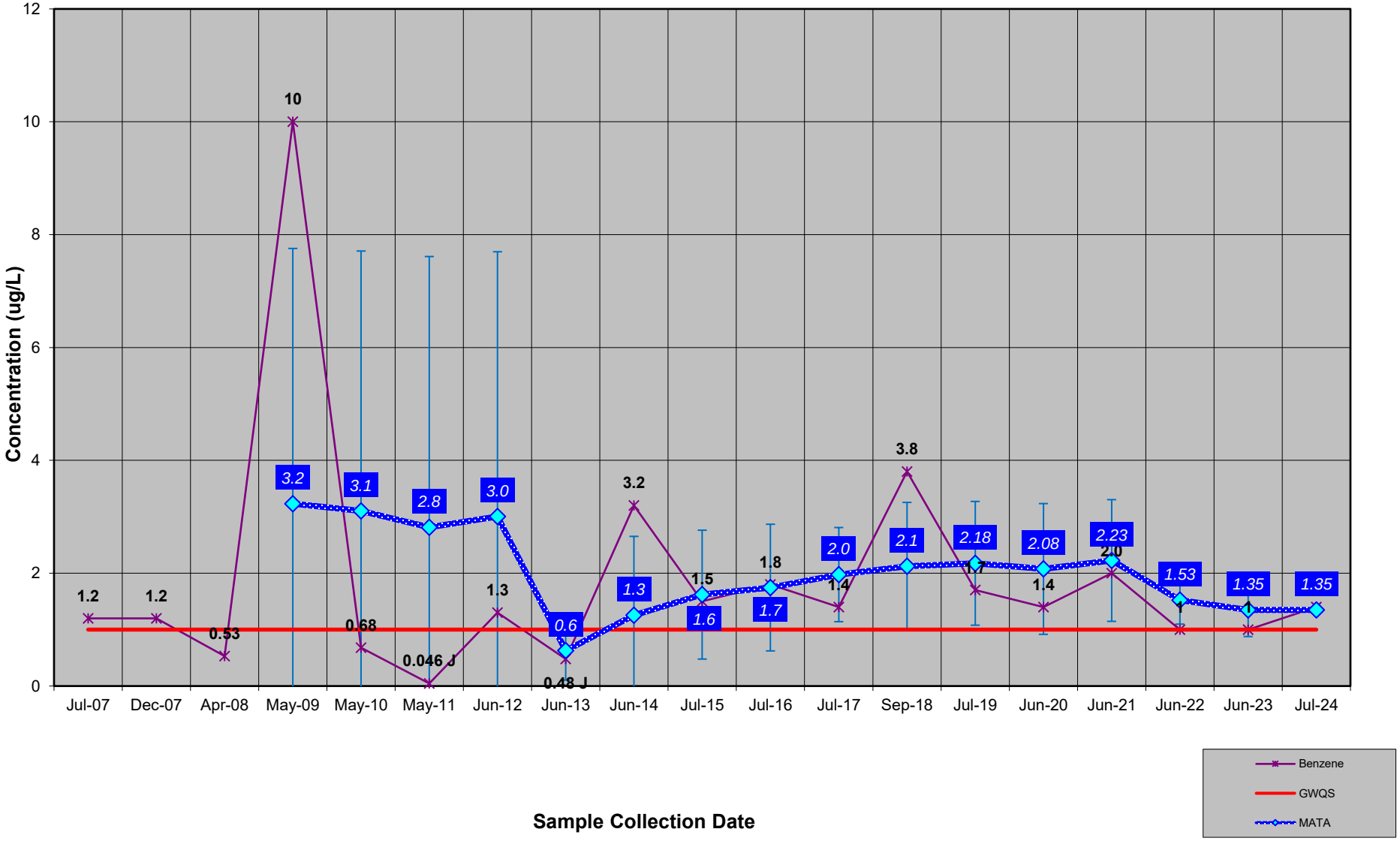
Sample Collection Date

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A2-MW-16
BENZENE

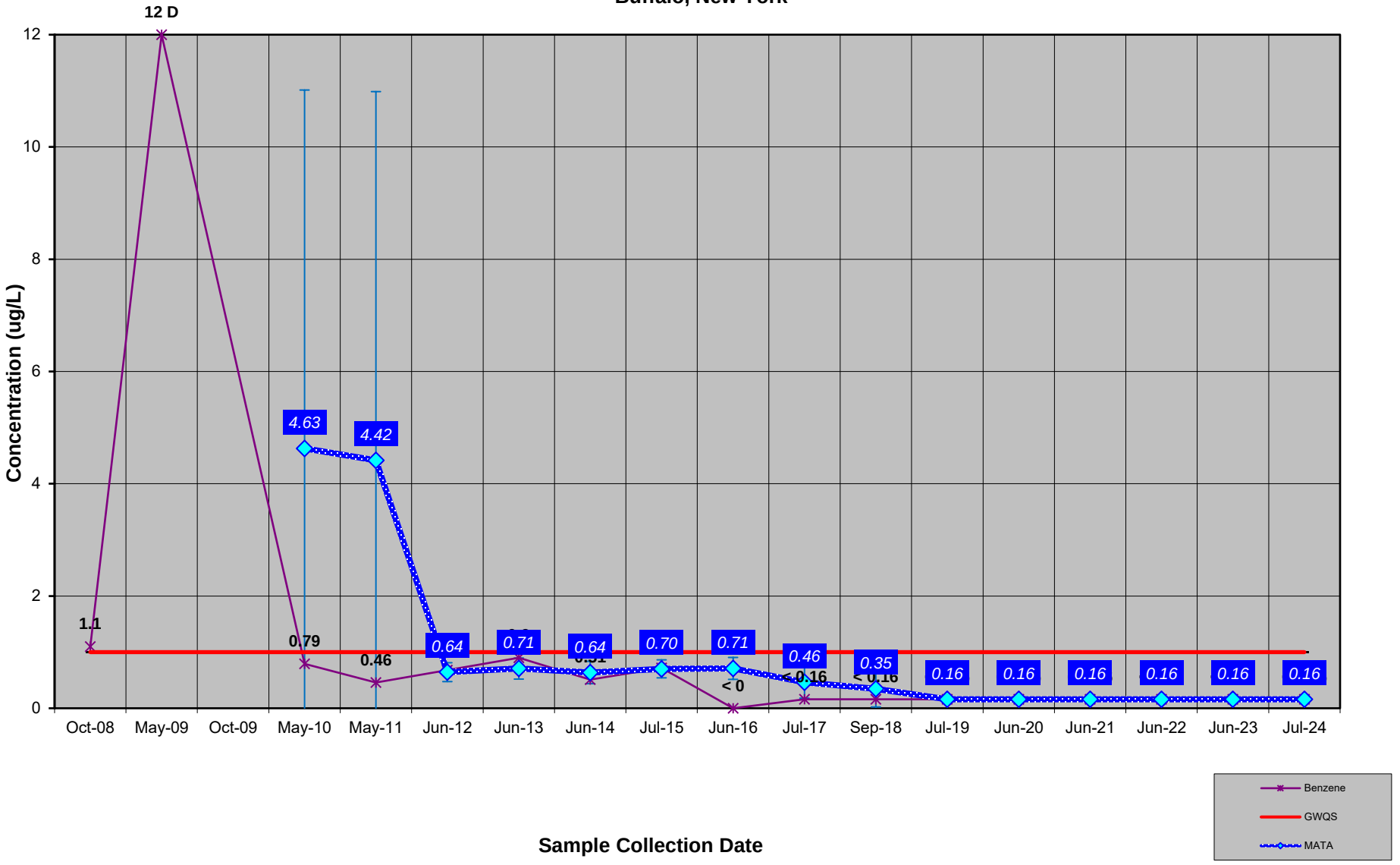
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-3
BENZENE

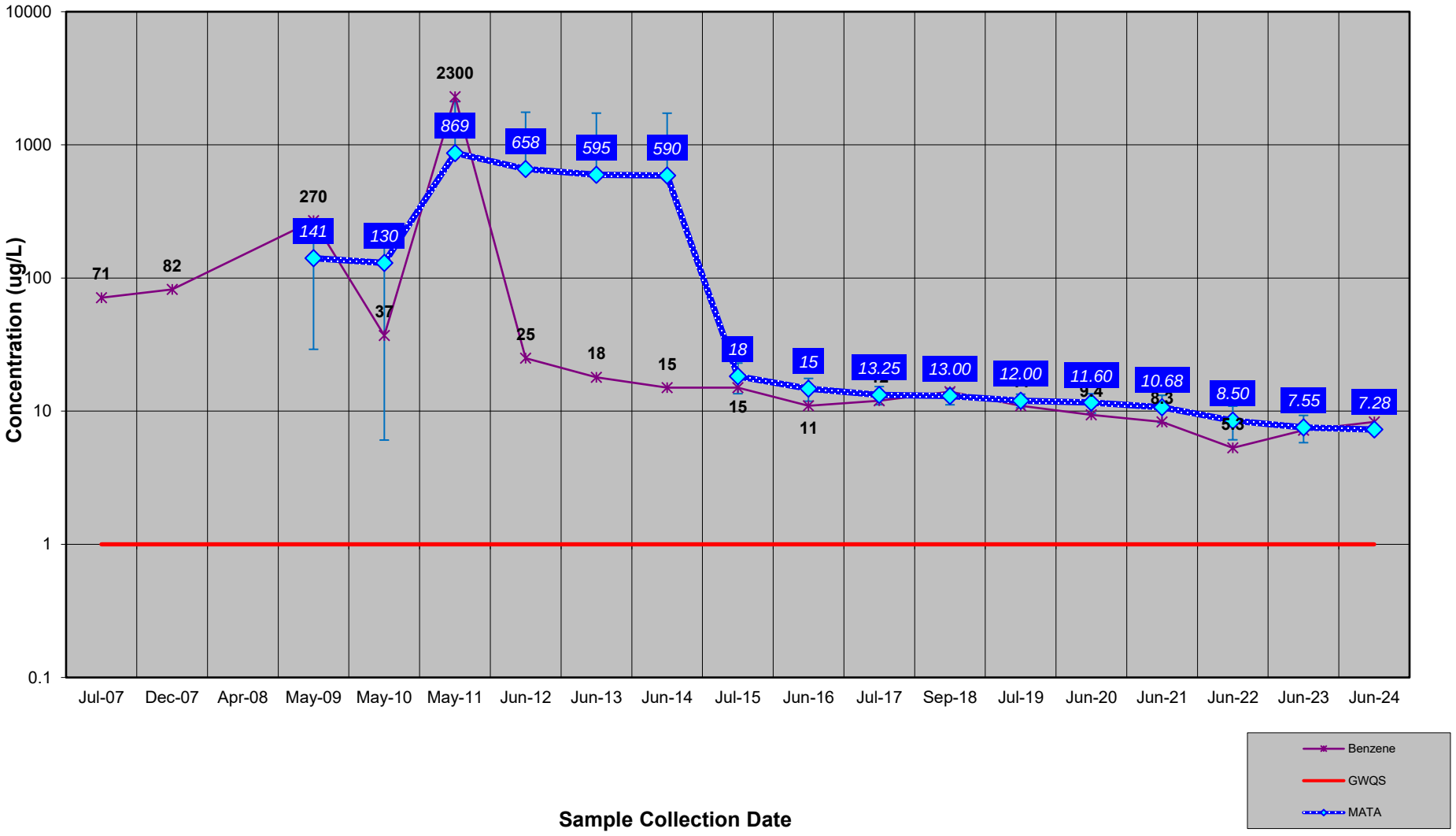
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-7
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

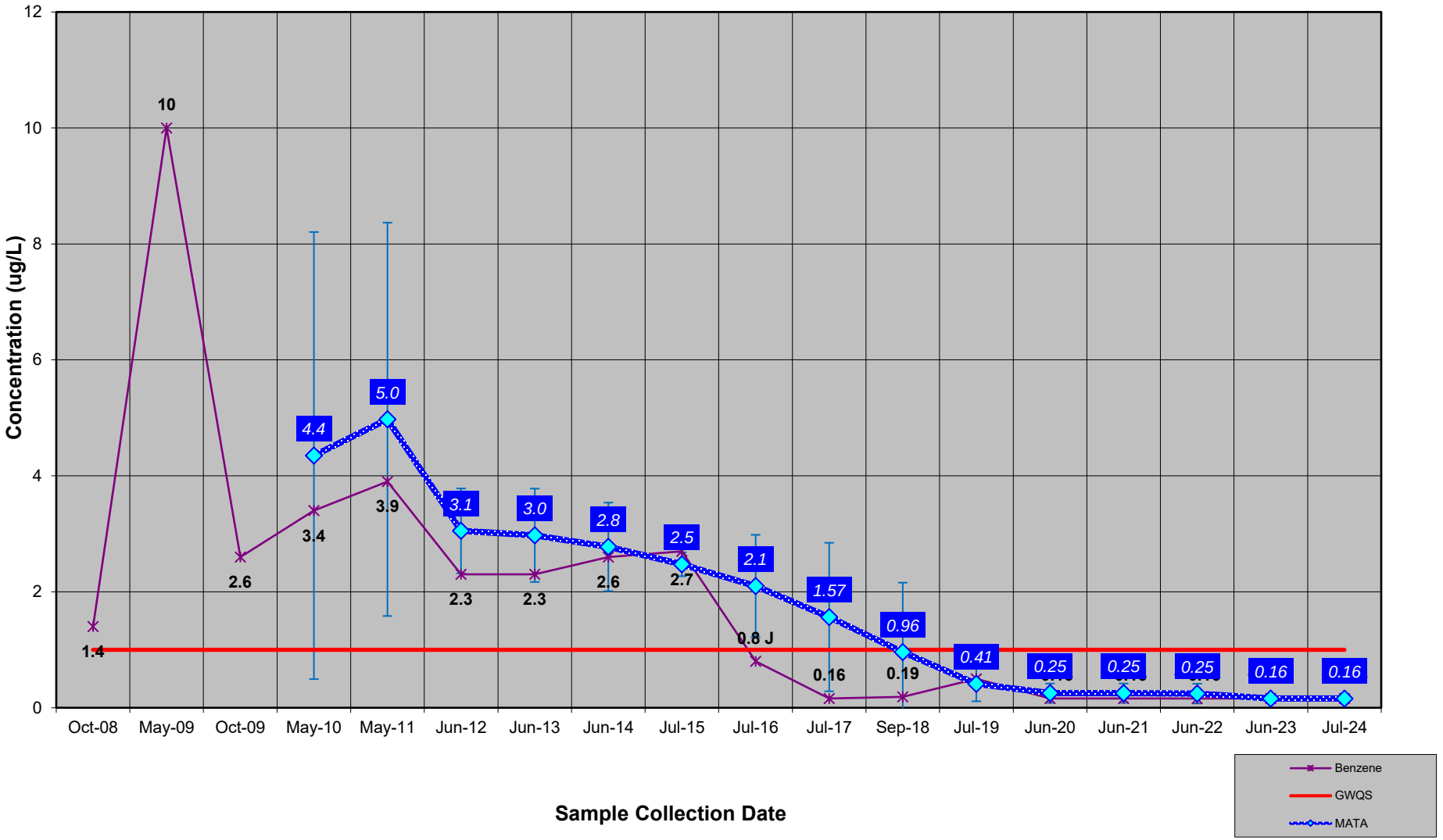


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-9
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

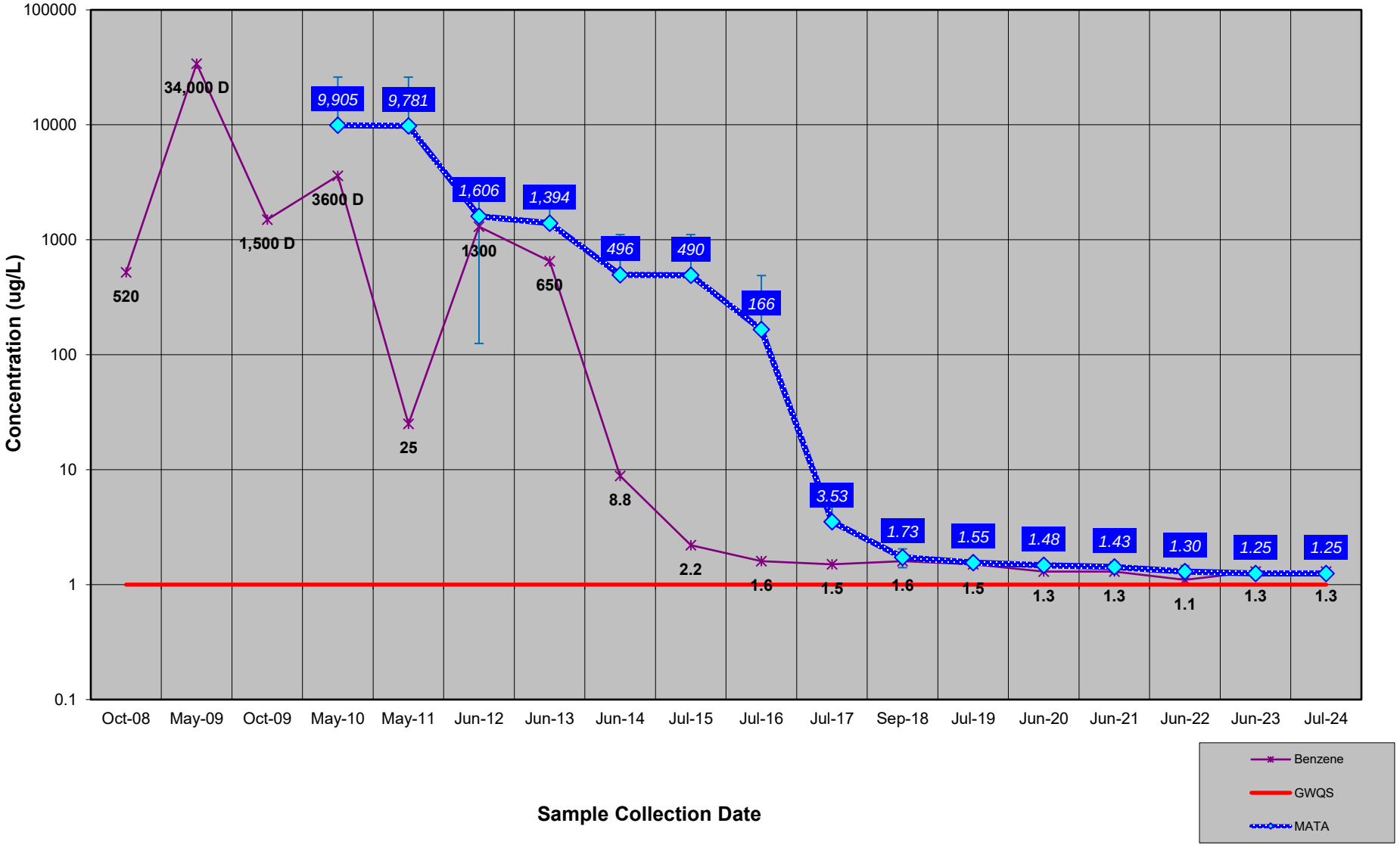


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-10
BENZENE

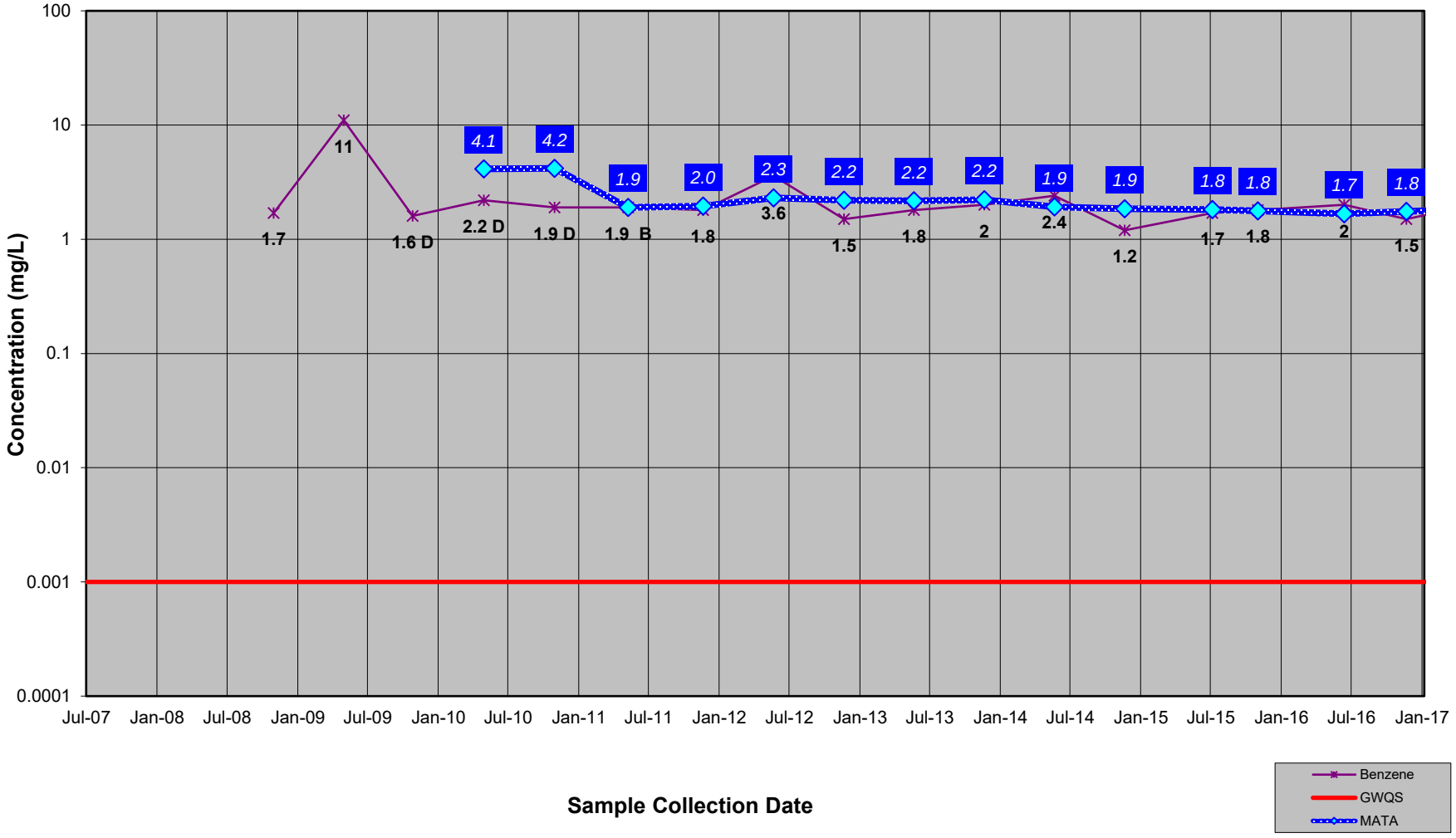
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-1
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

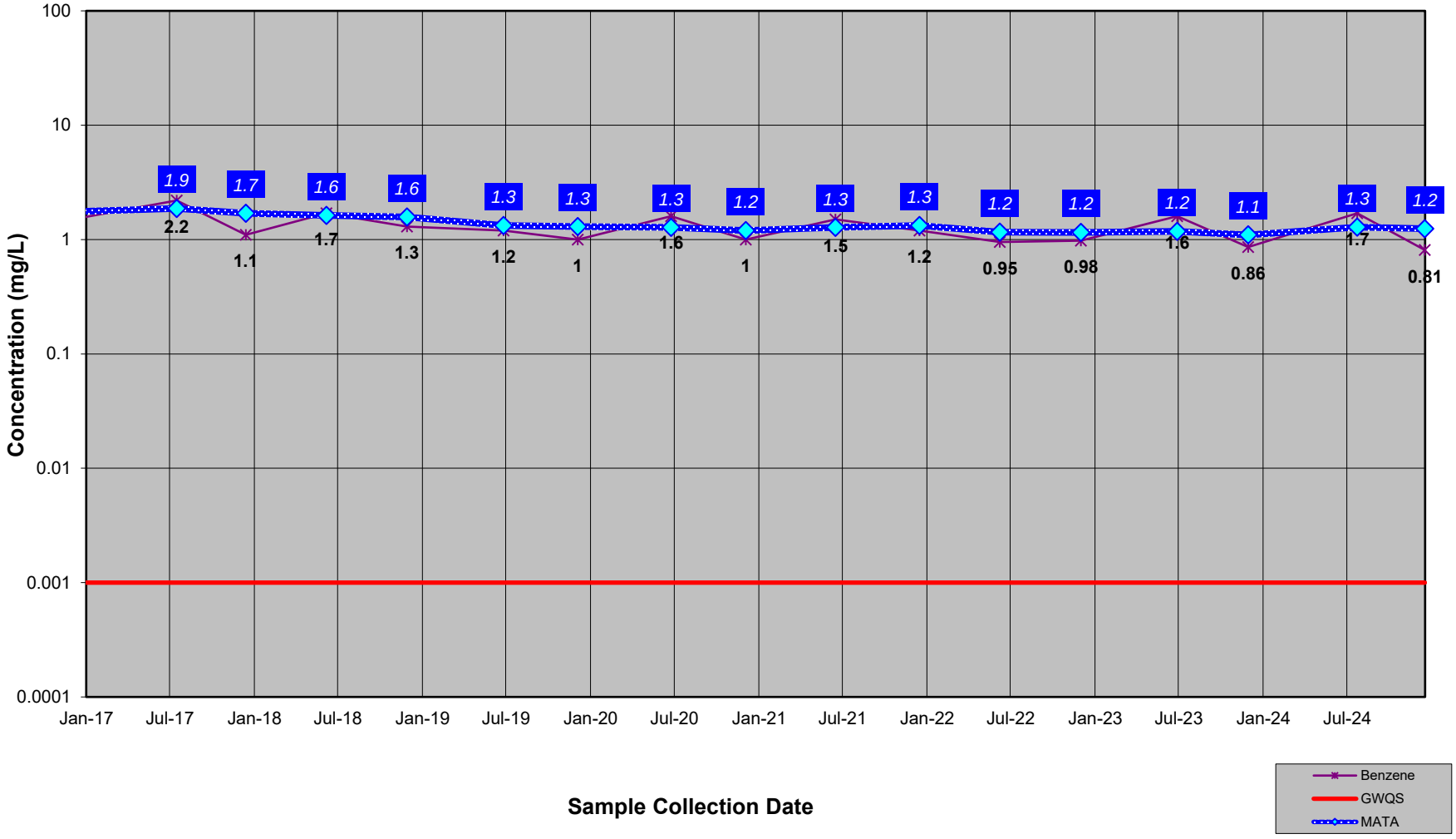


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-1
BENZENE

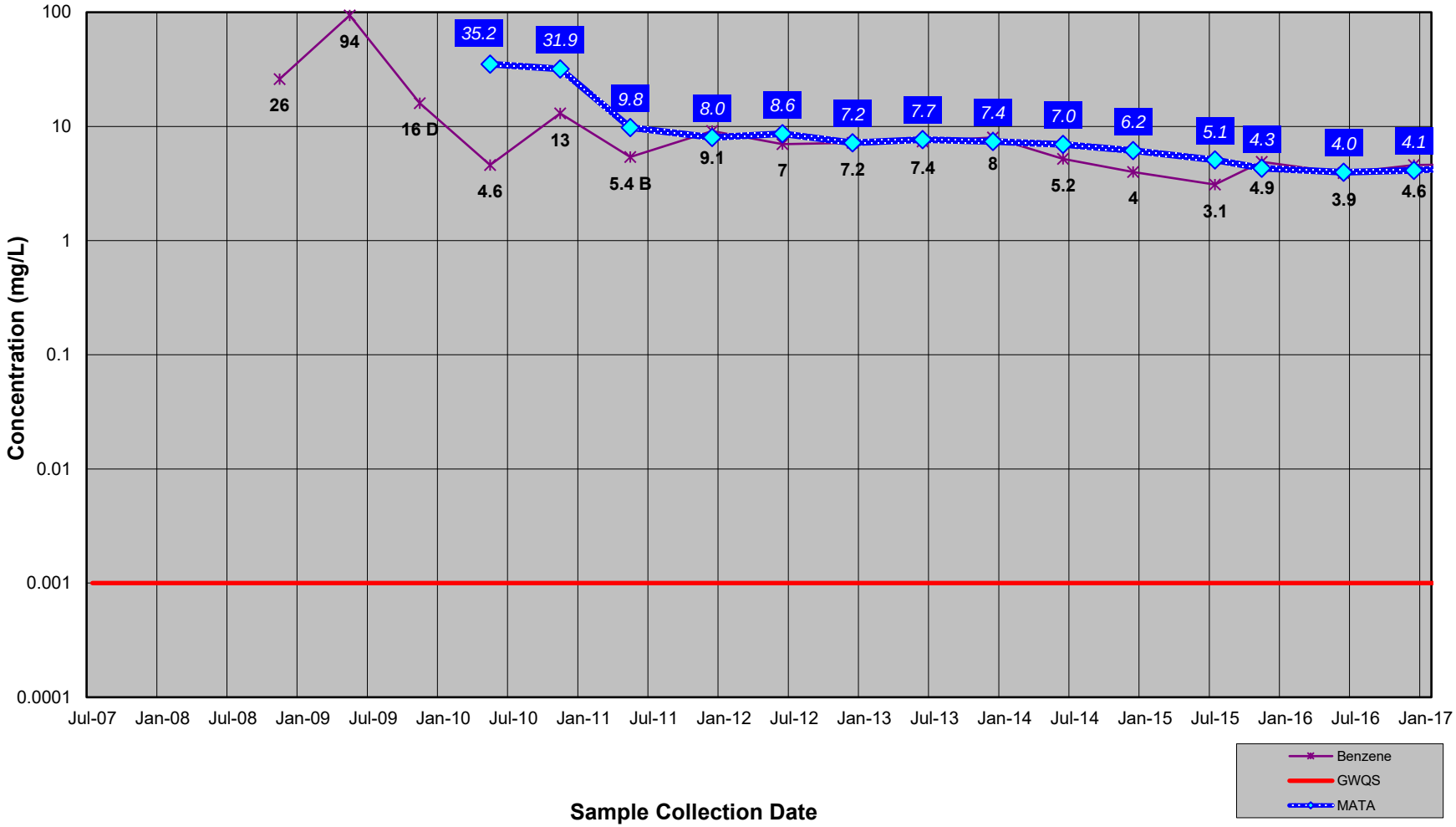
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-2
BENZENE

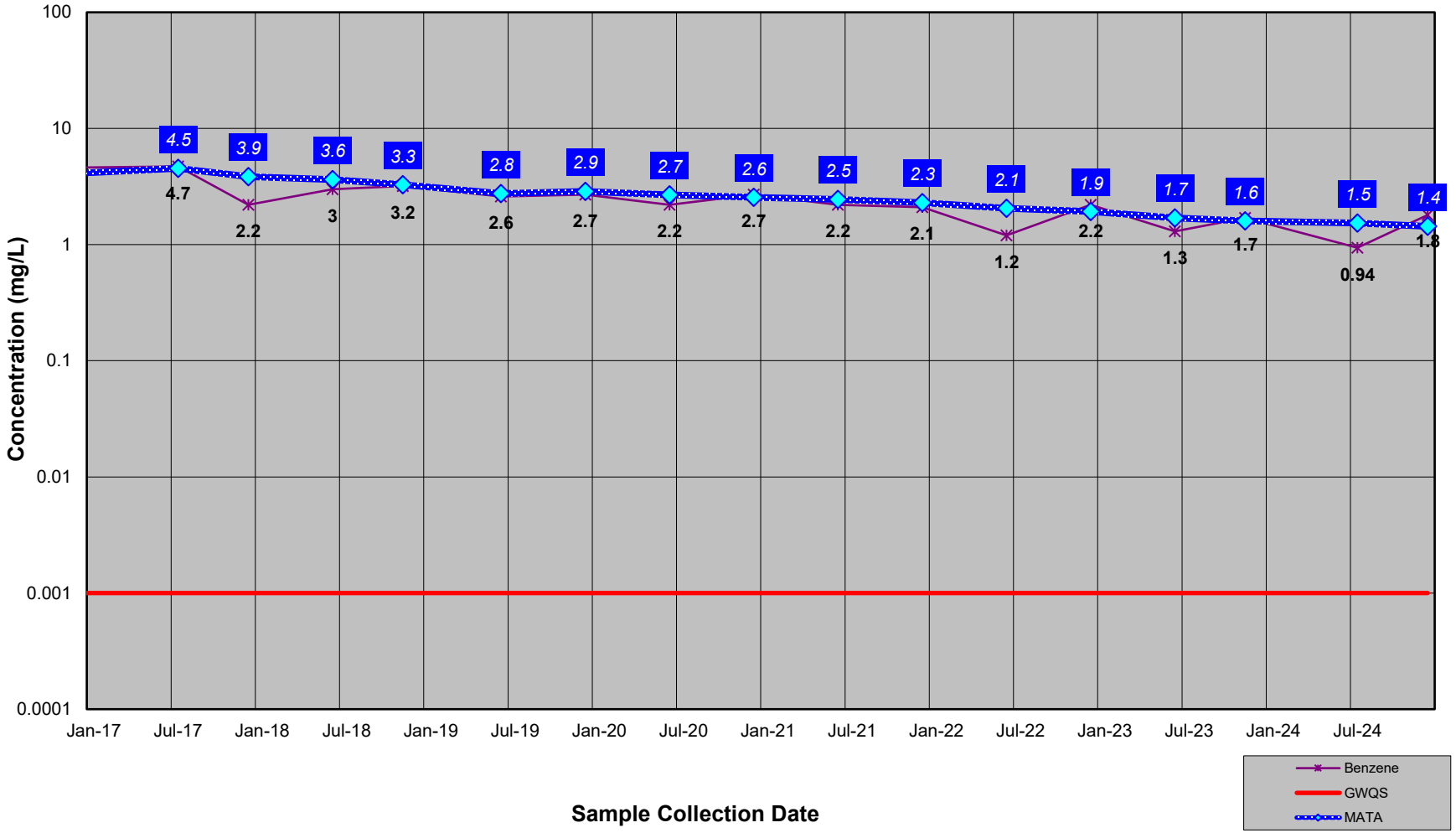
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-2
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

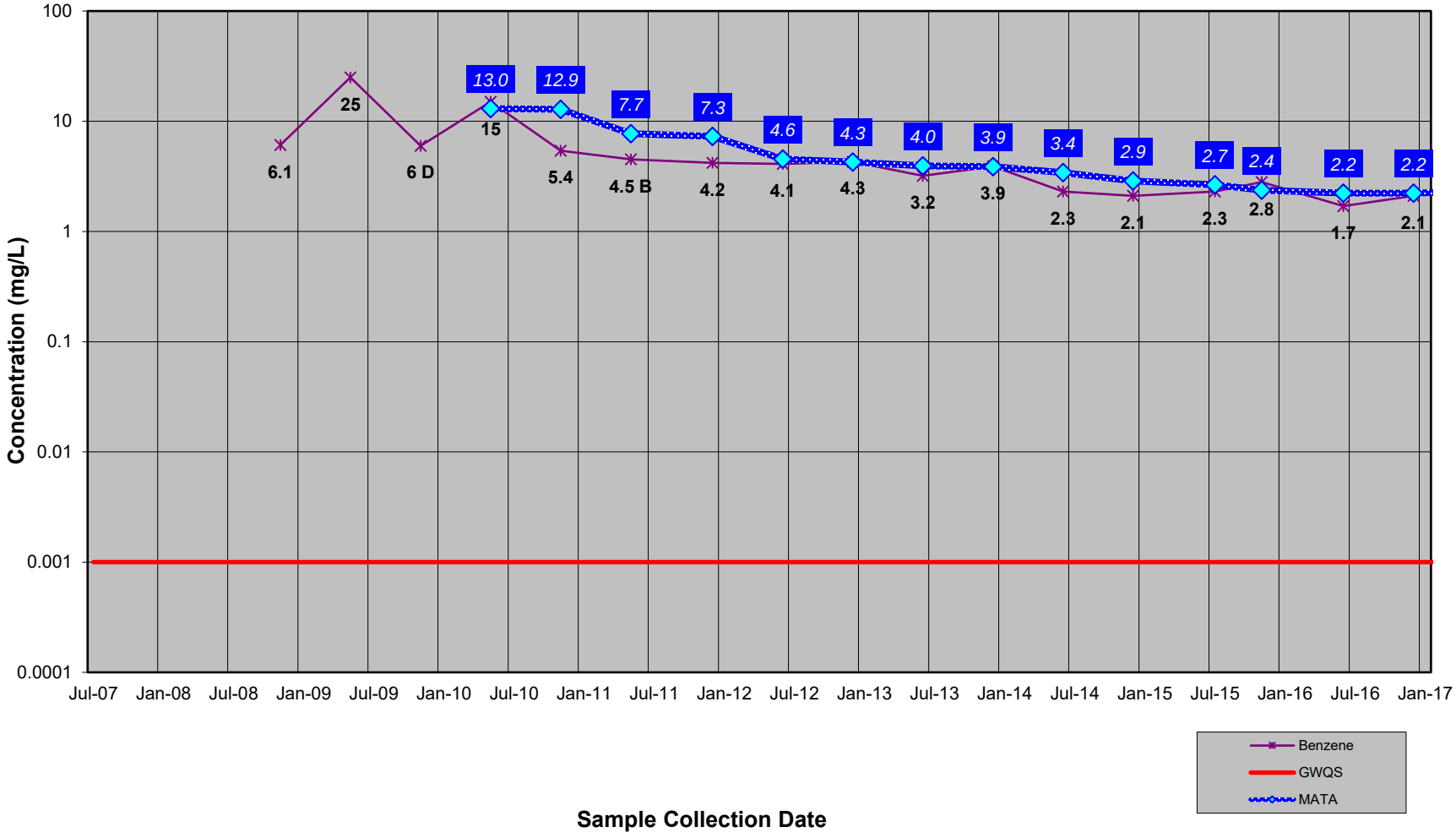


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-3
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

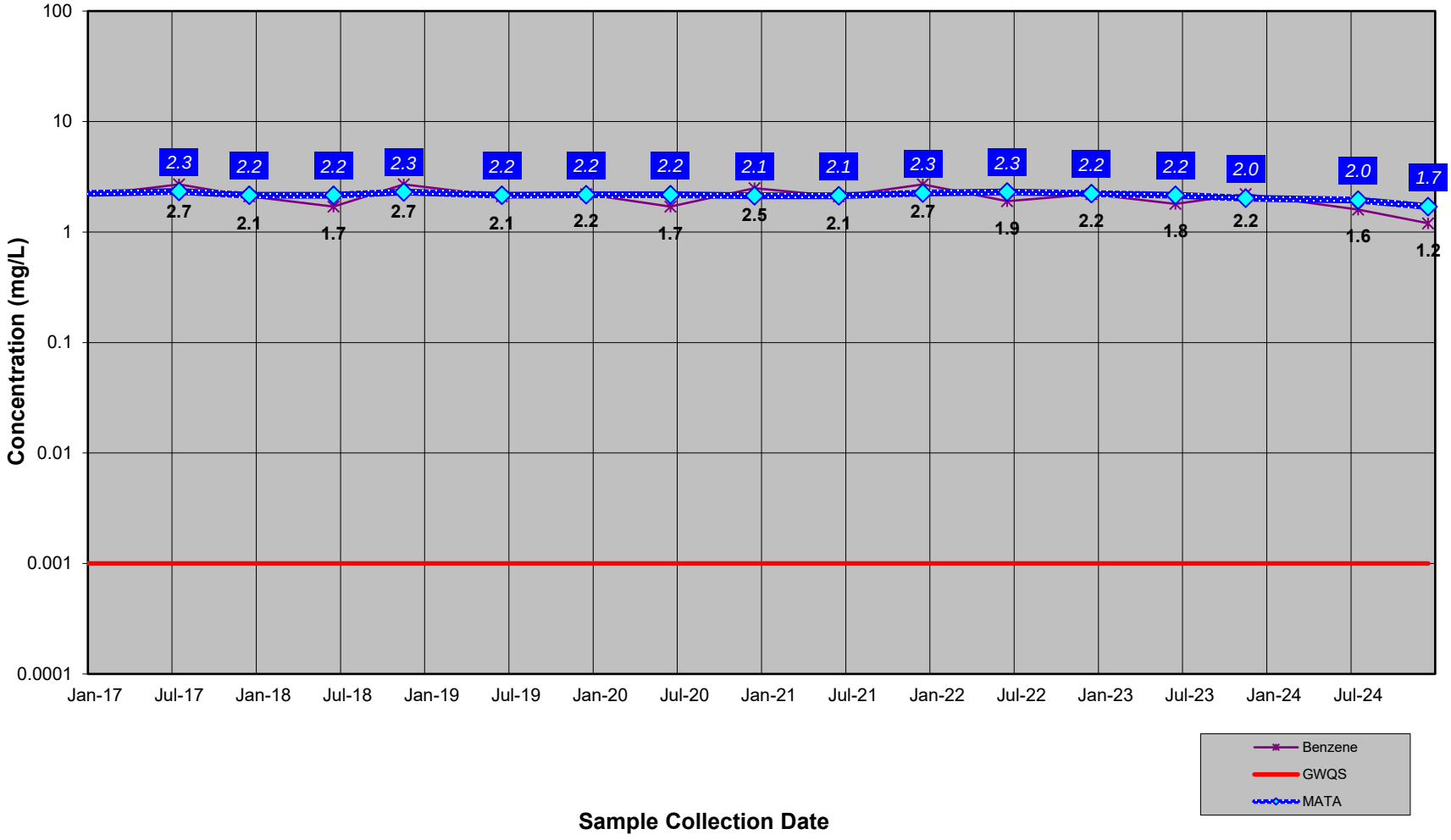


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-3
BENZENE

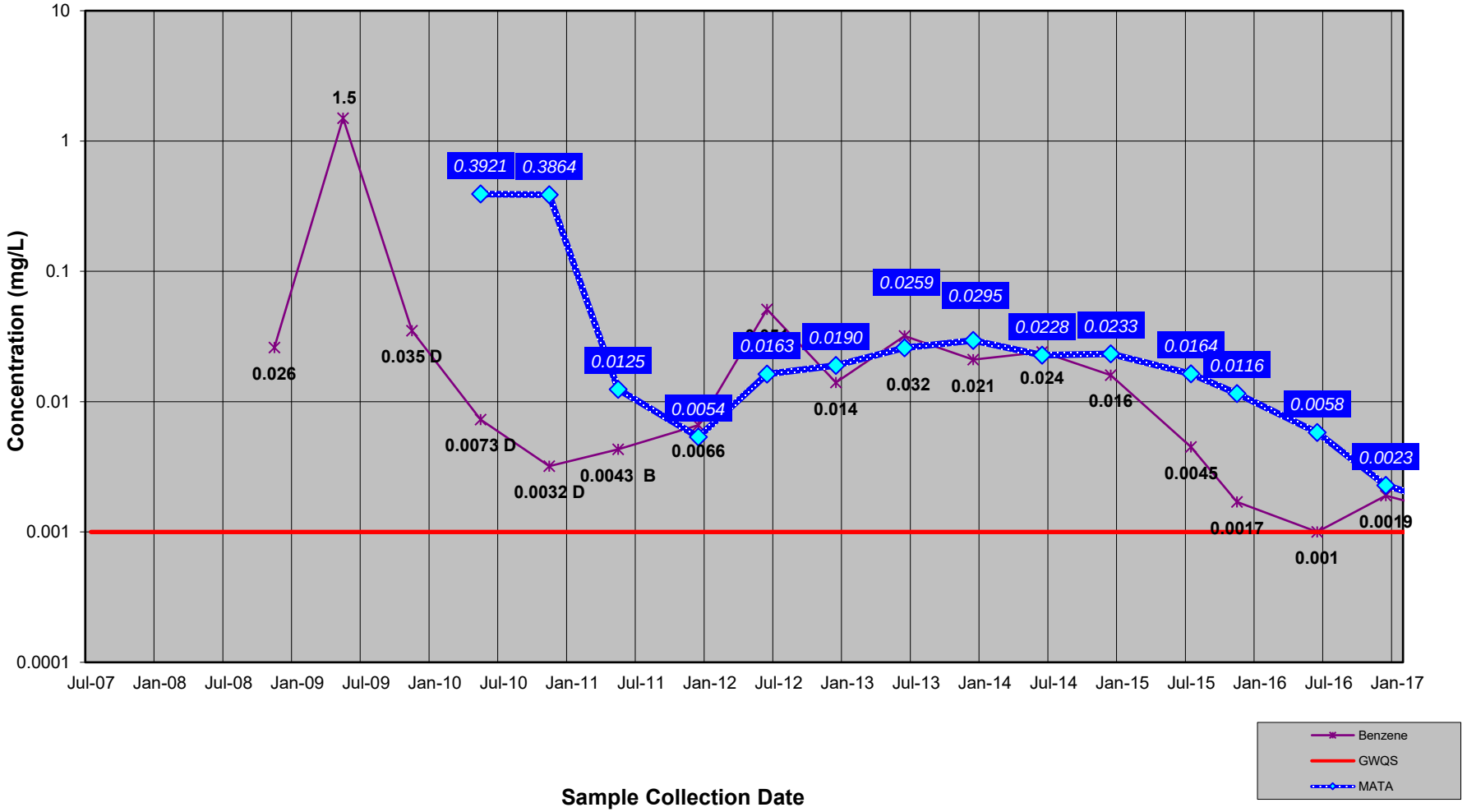
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-4
BENZENE

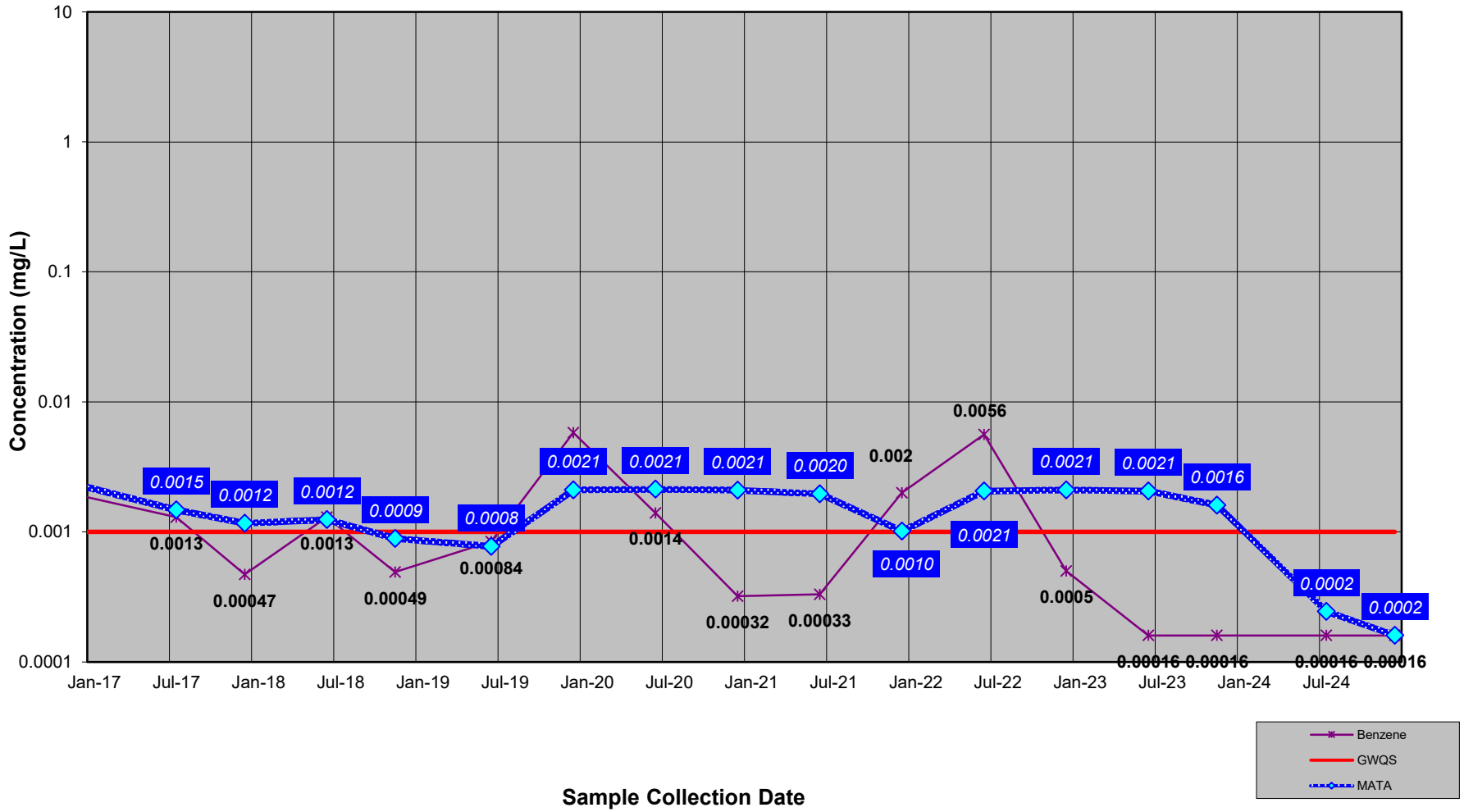
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-4
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

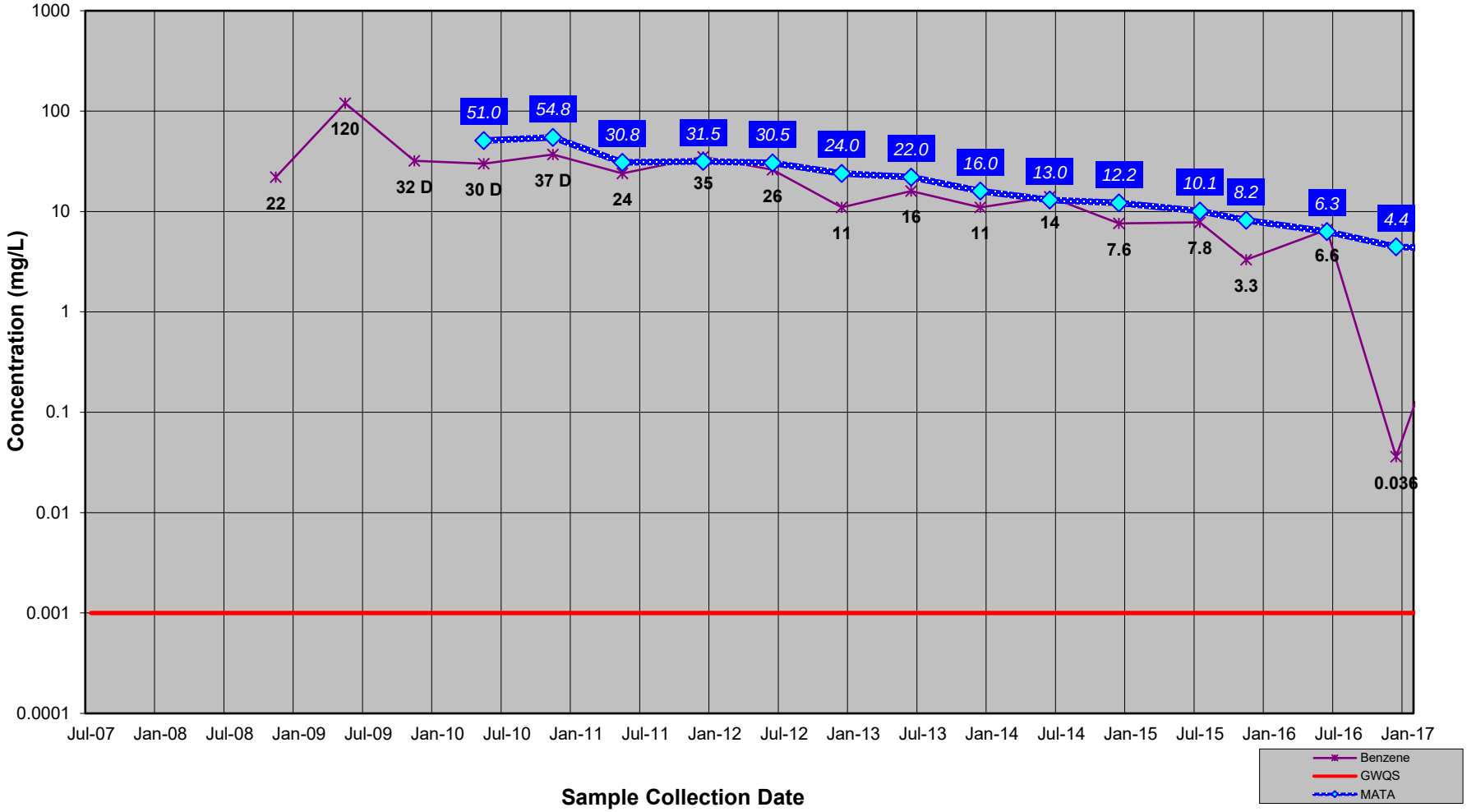


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-5
BENZENE

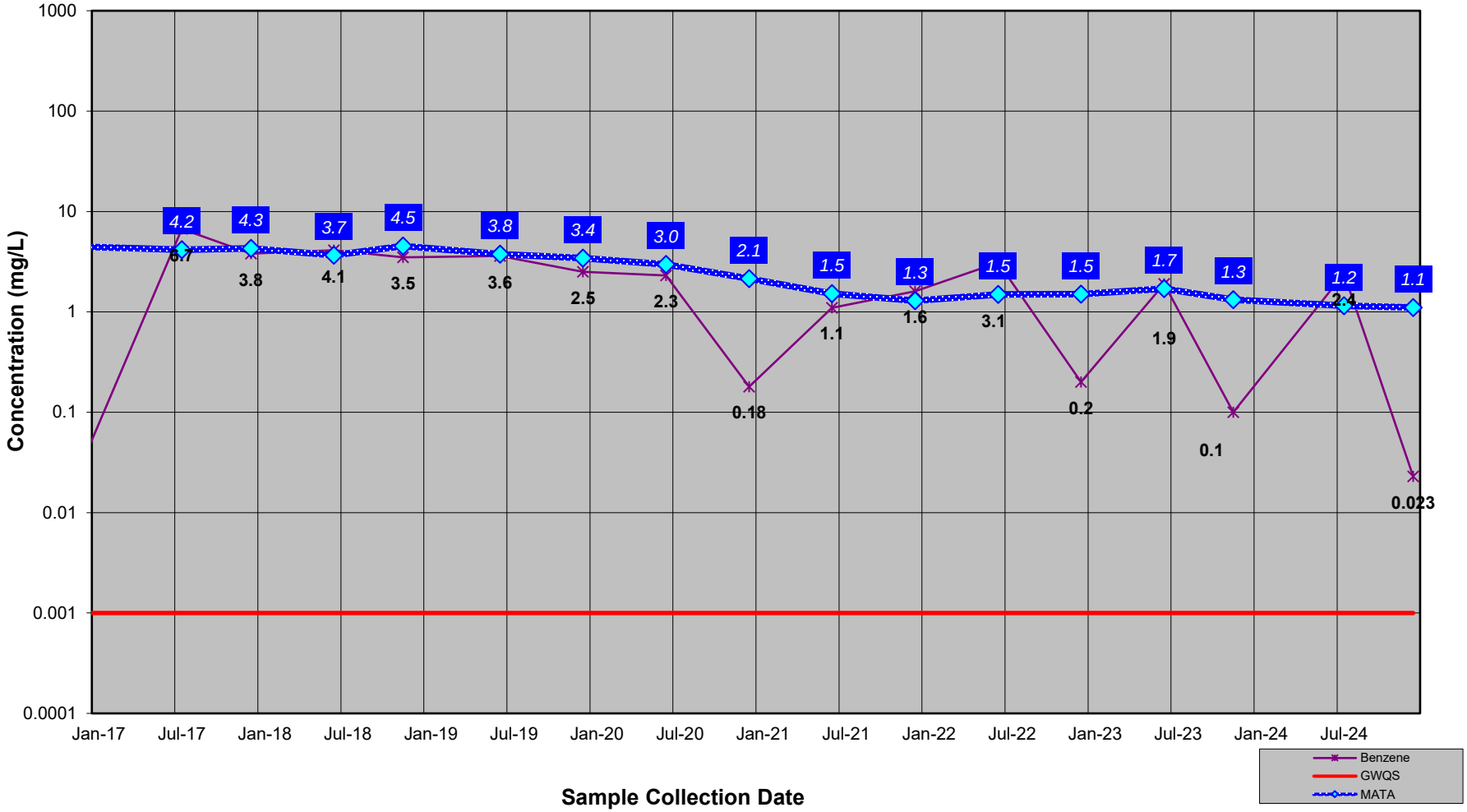
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-5
BENZENE

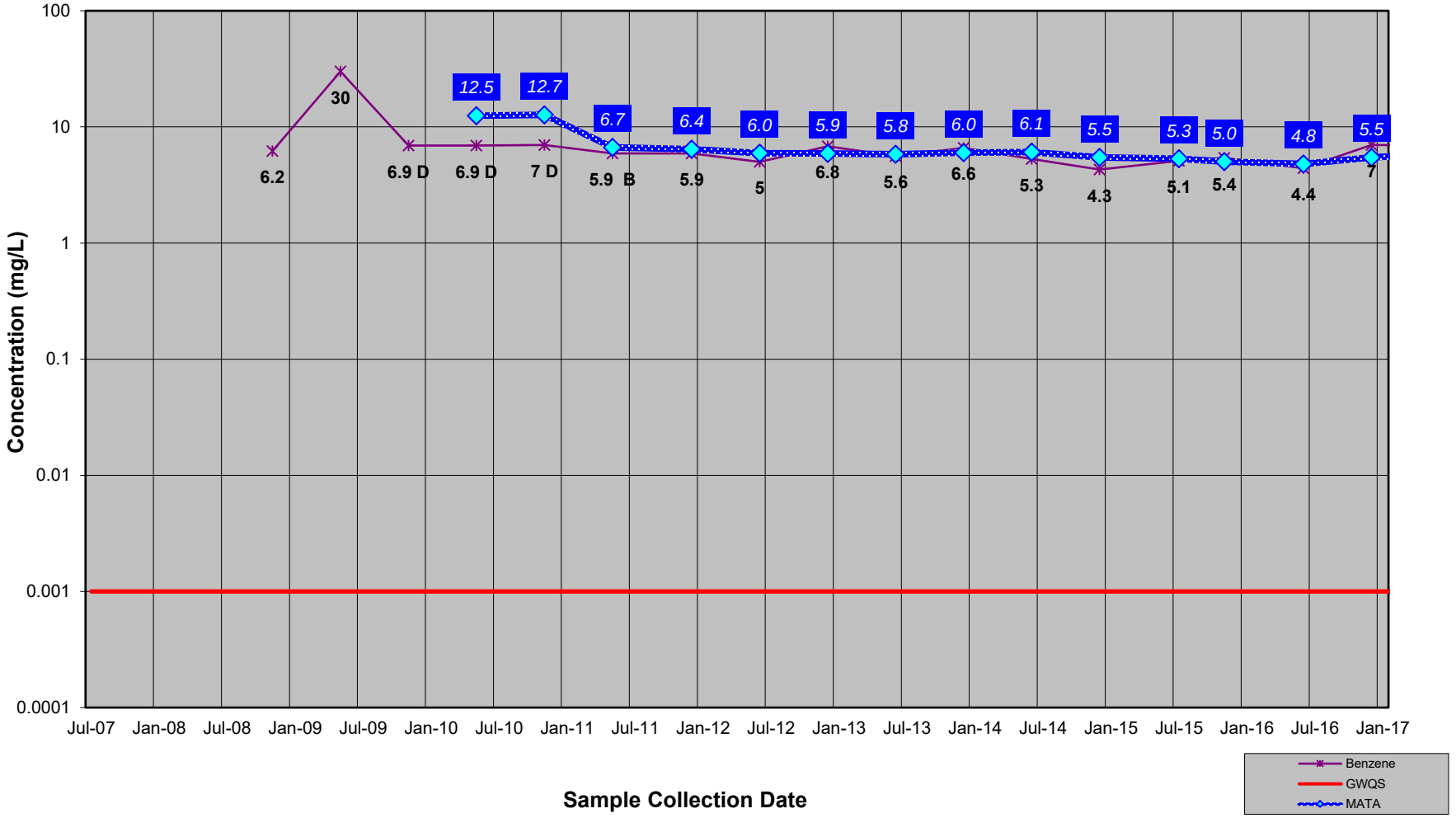
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-6
BENZENE

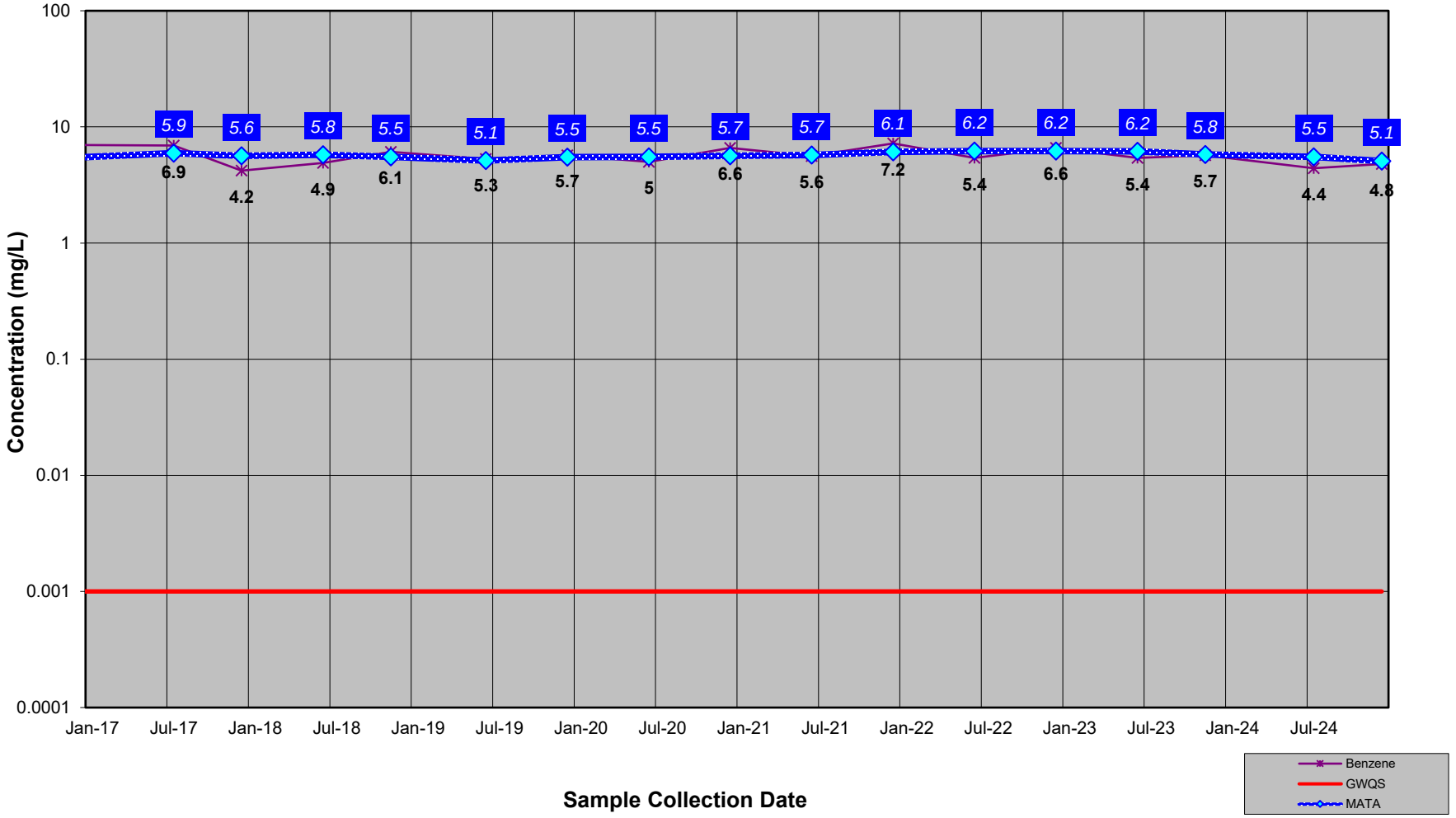
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-6
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

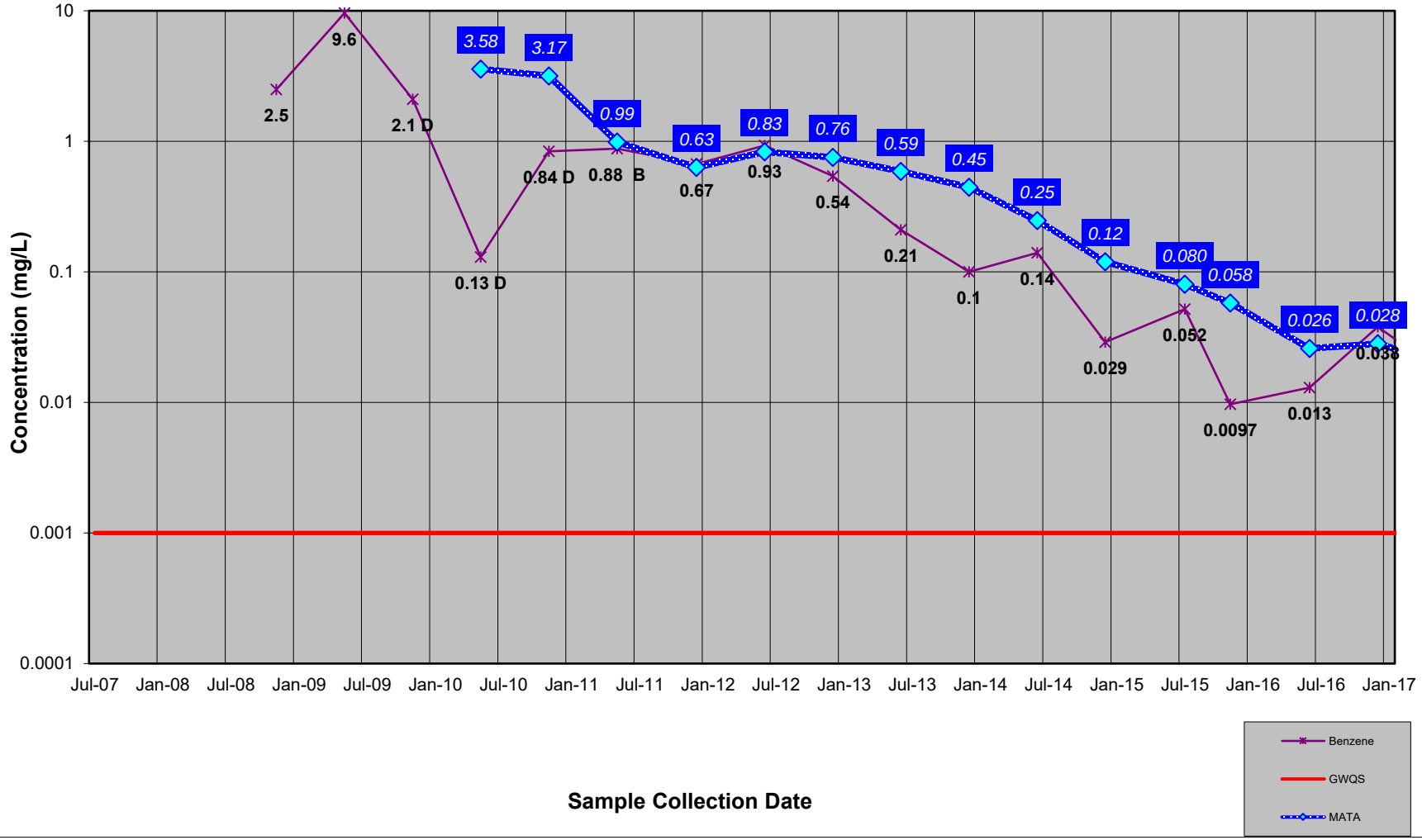


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-7
BENZENE

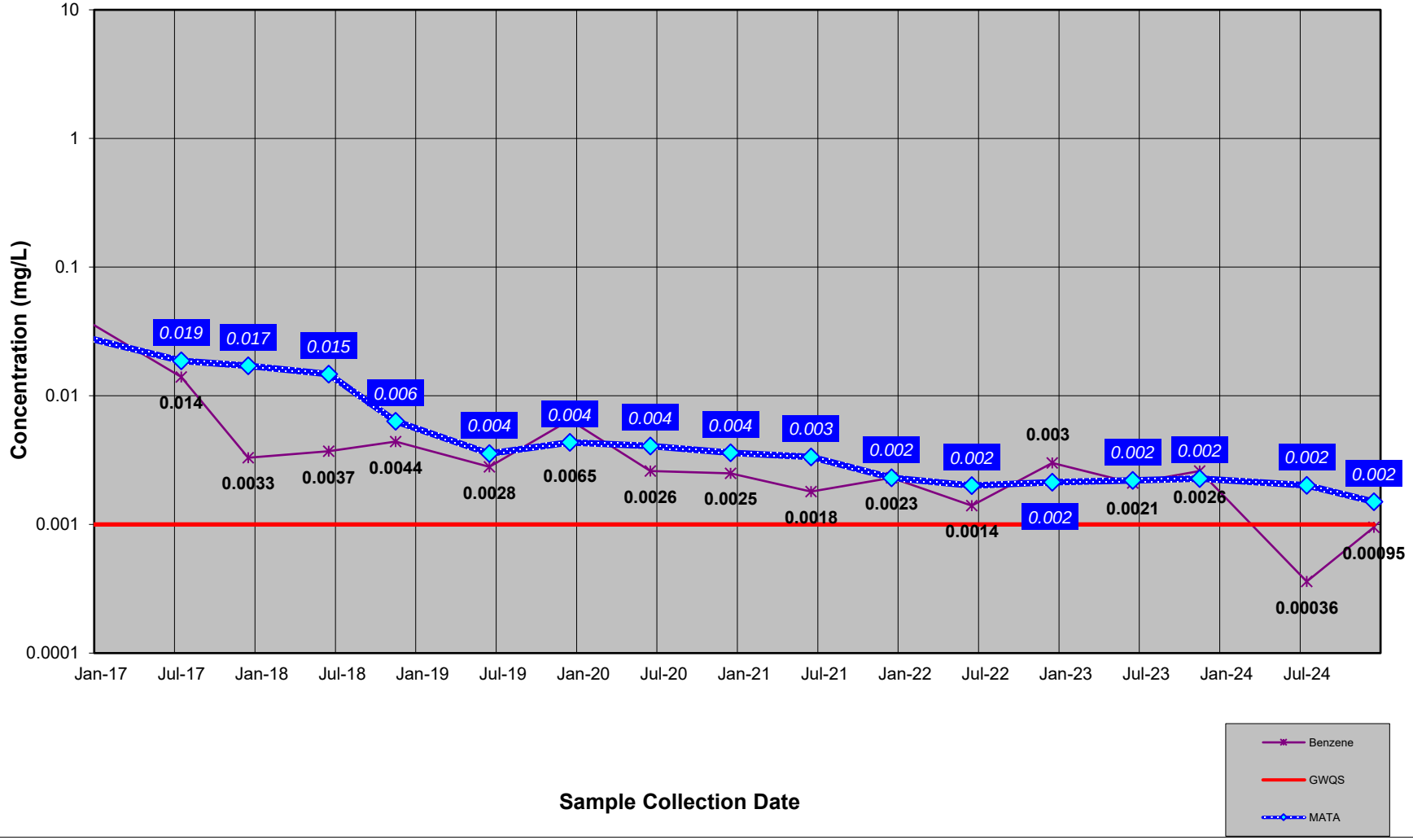
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-7
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

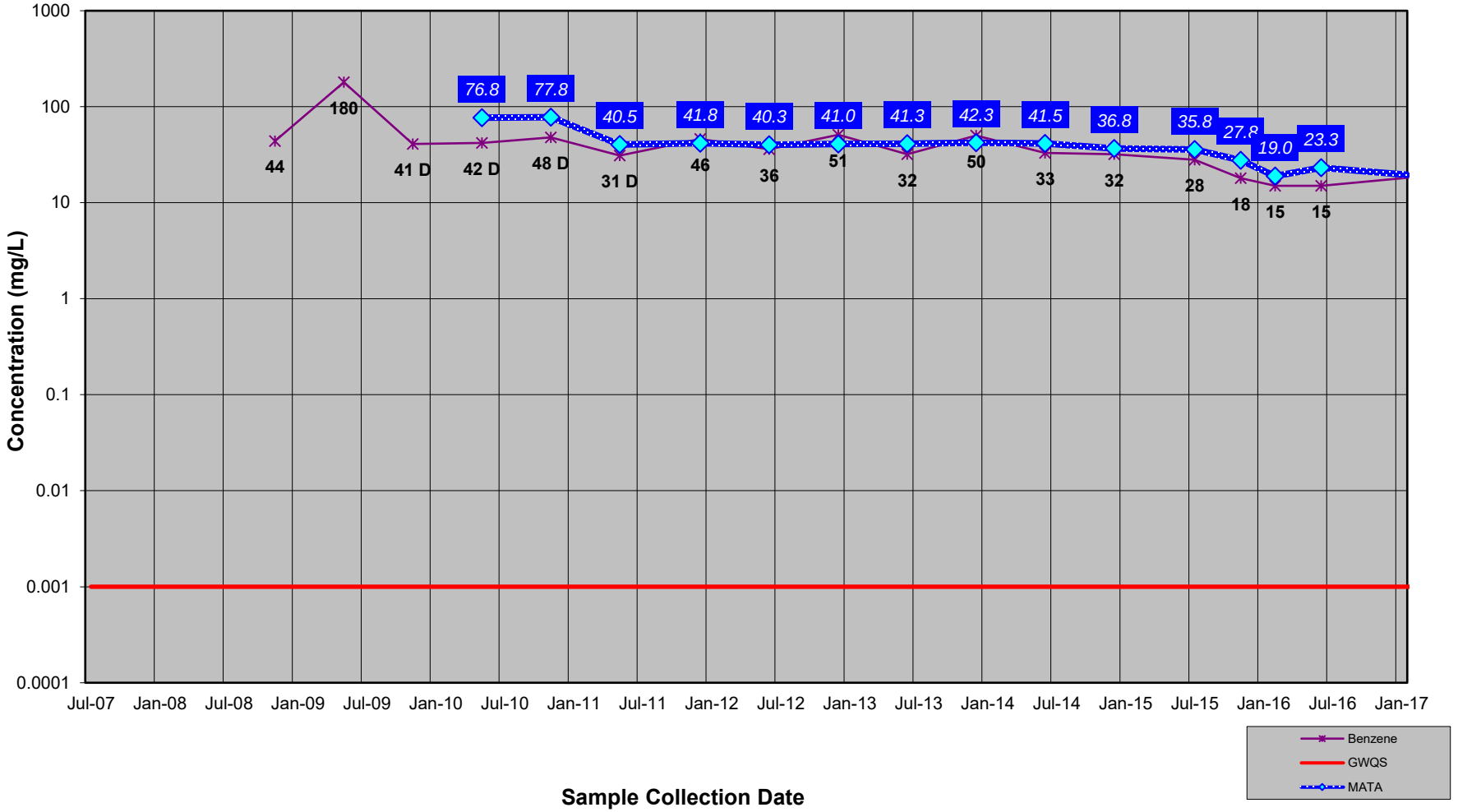


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-8
BENZENE

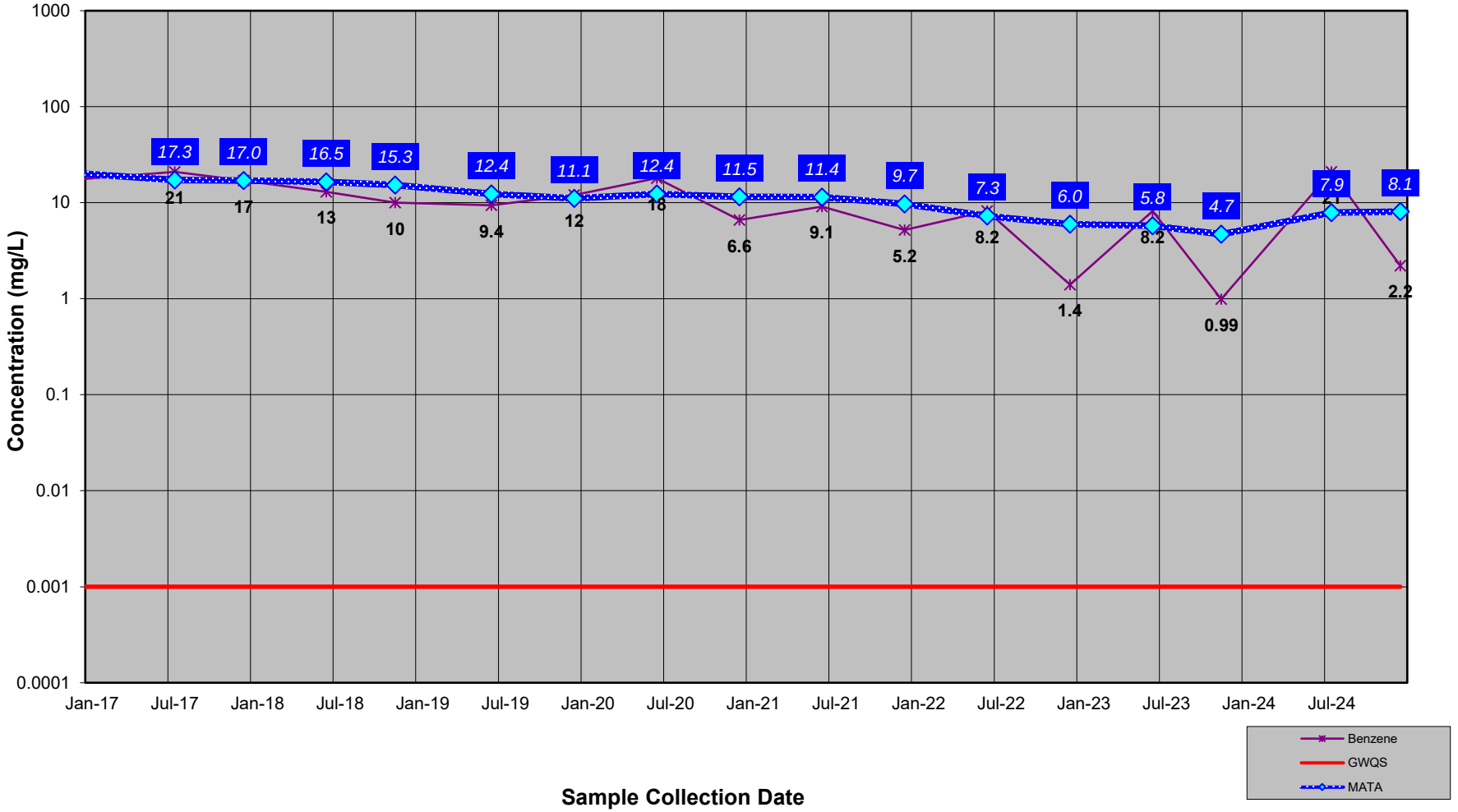
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-8
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

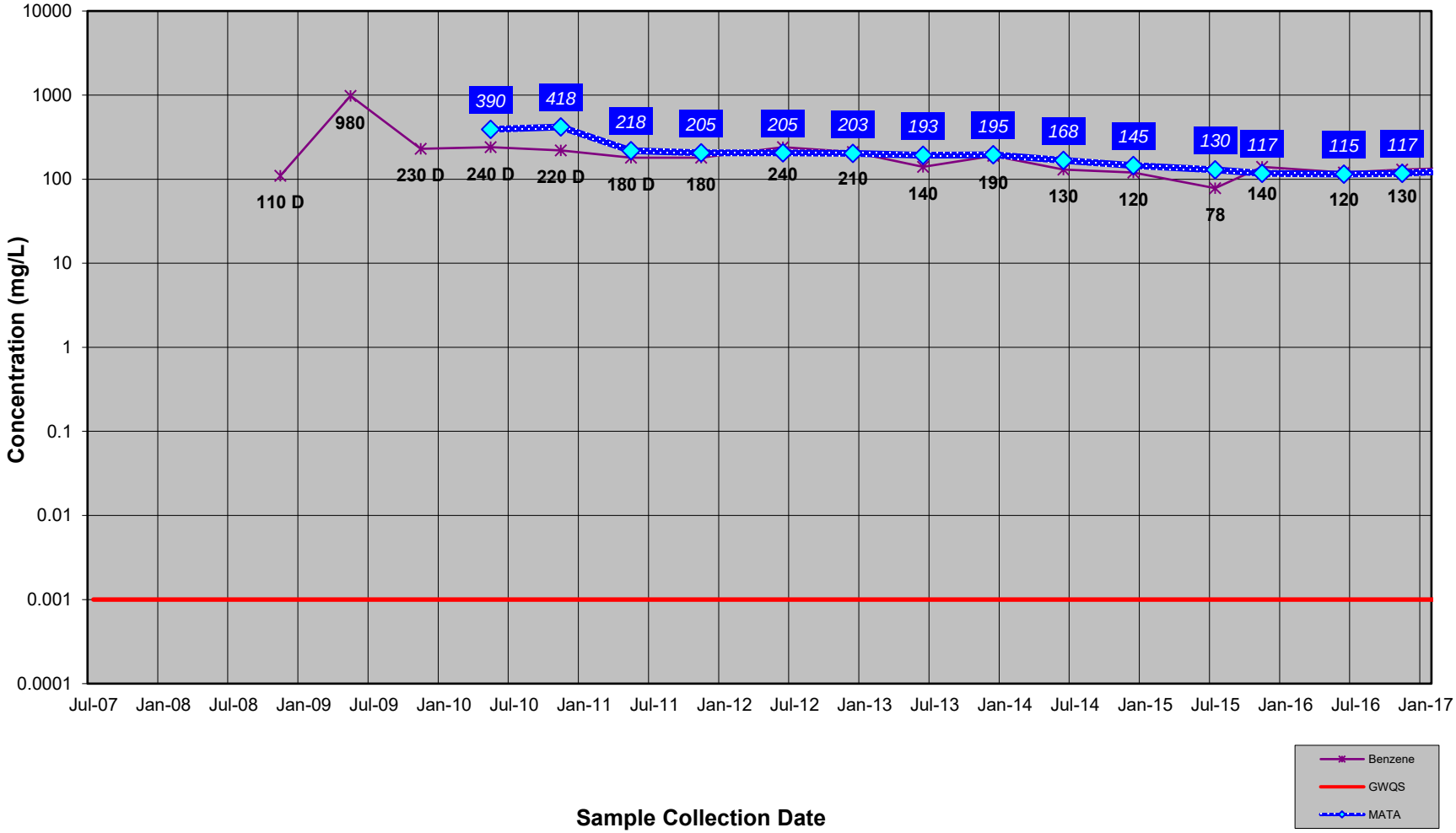


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-9
BENZENE

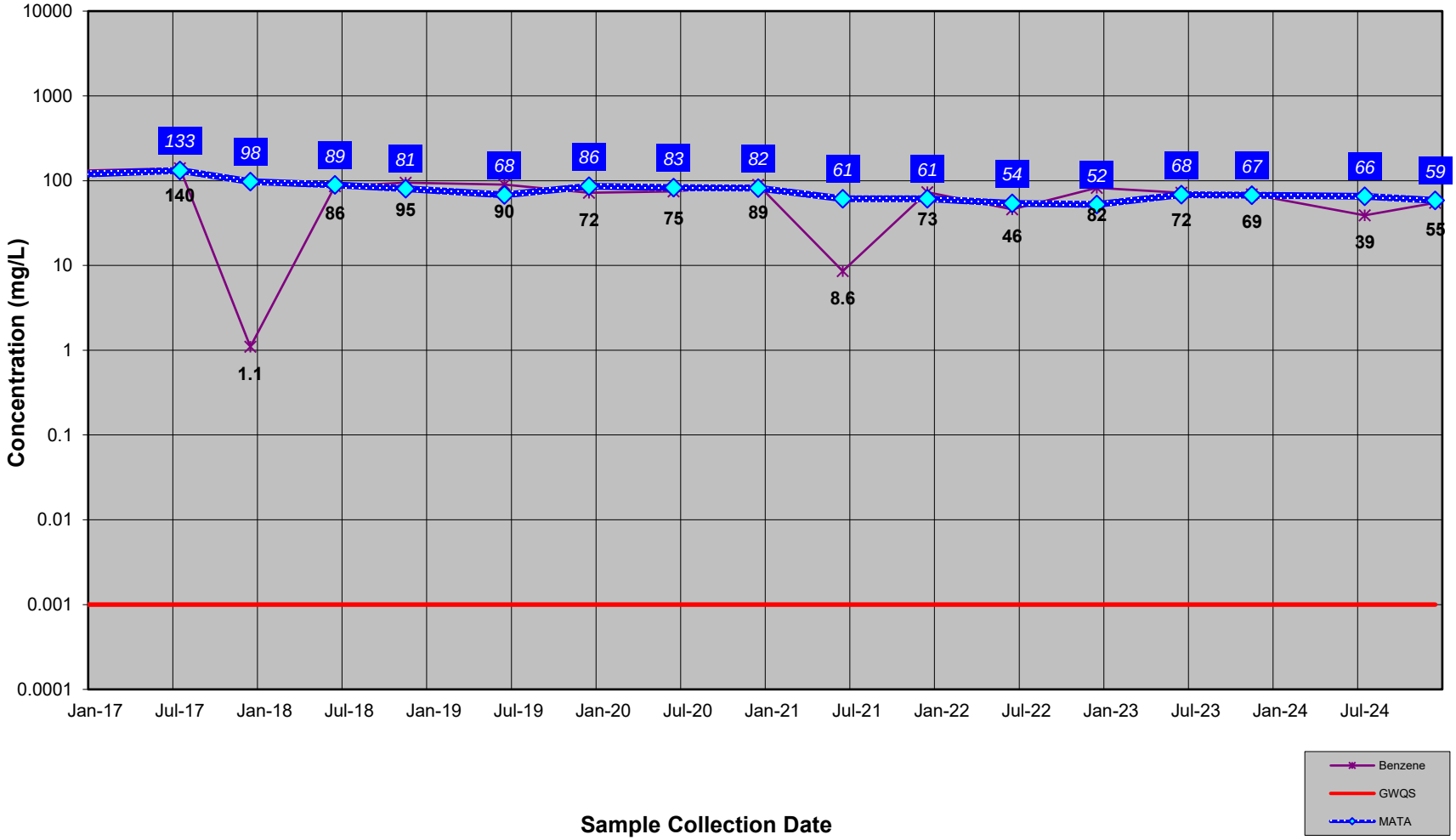
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-9
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

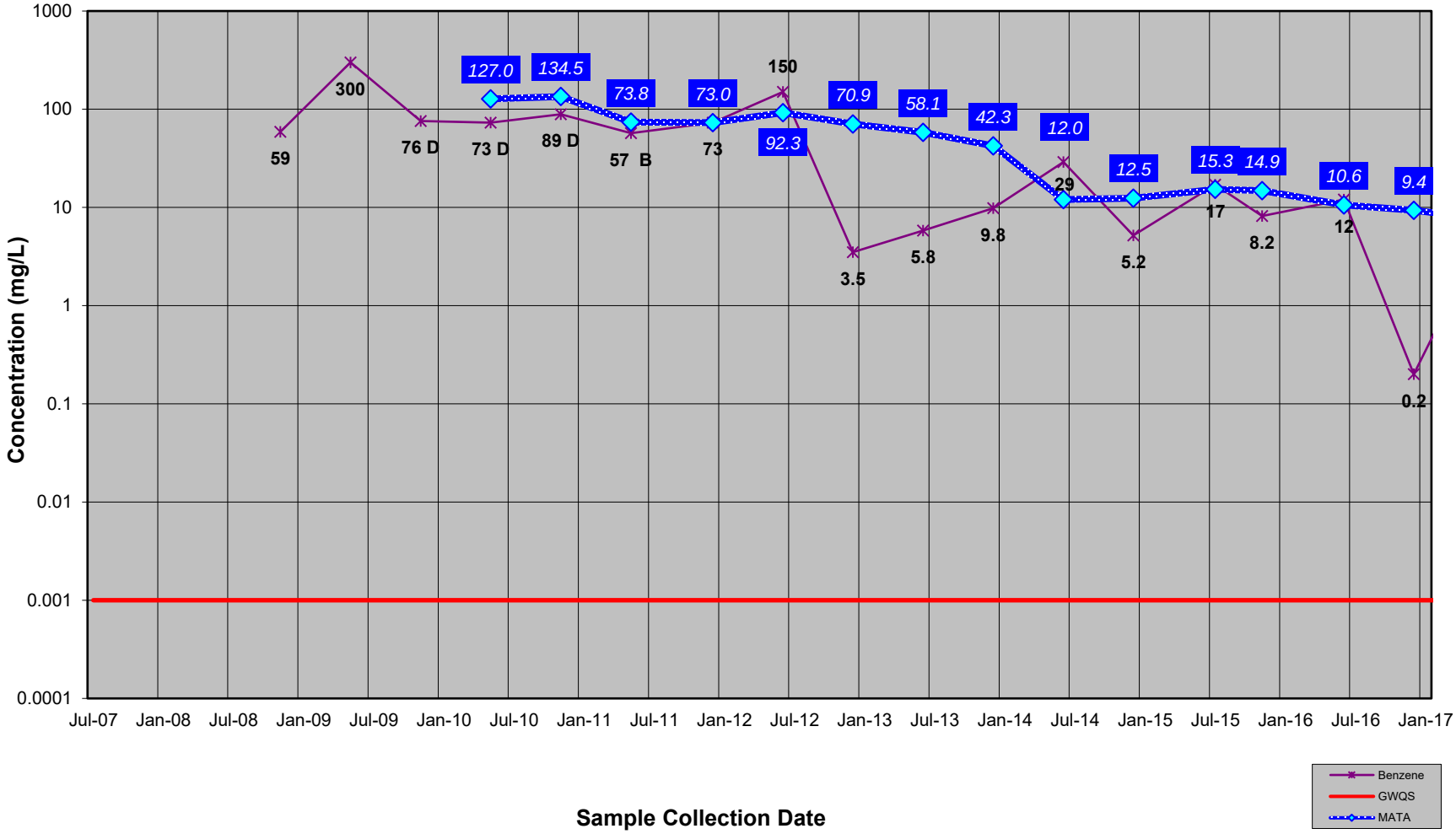


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-10
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

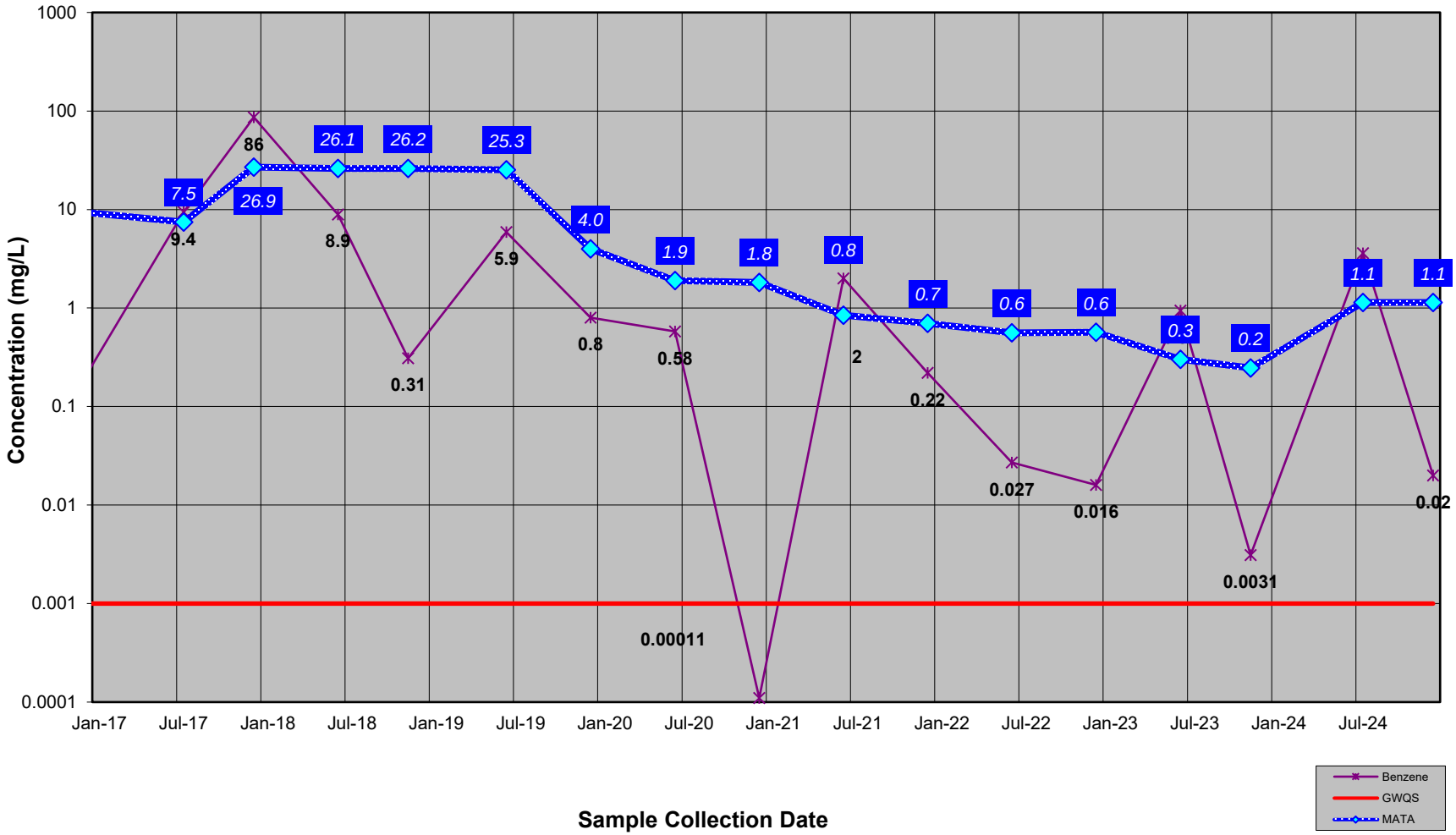


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-10
BENZENE

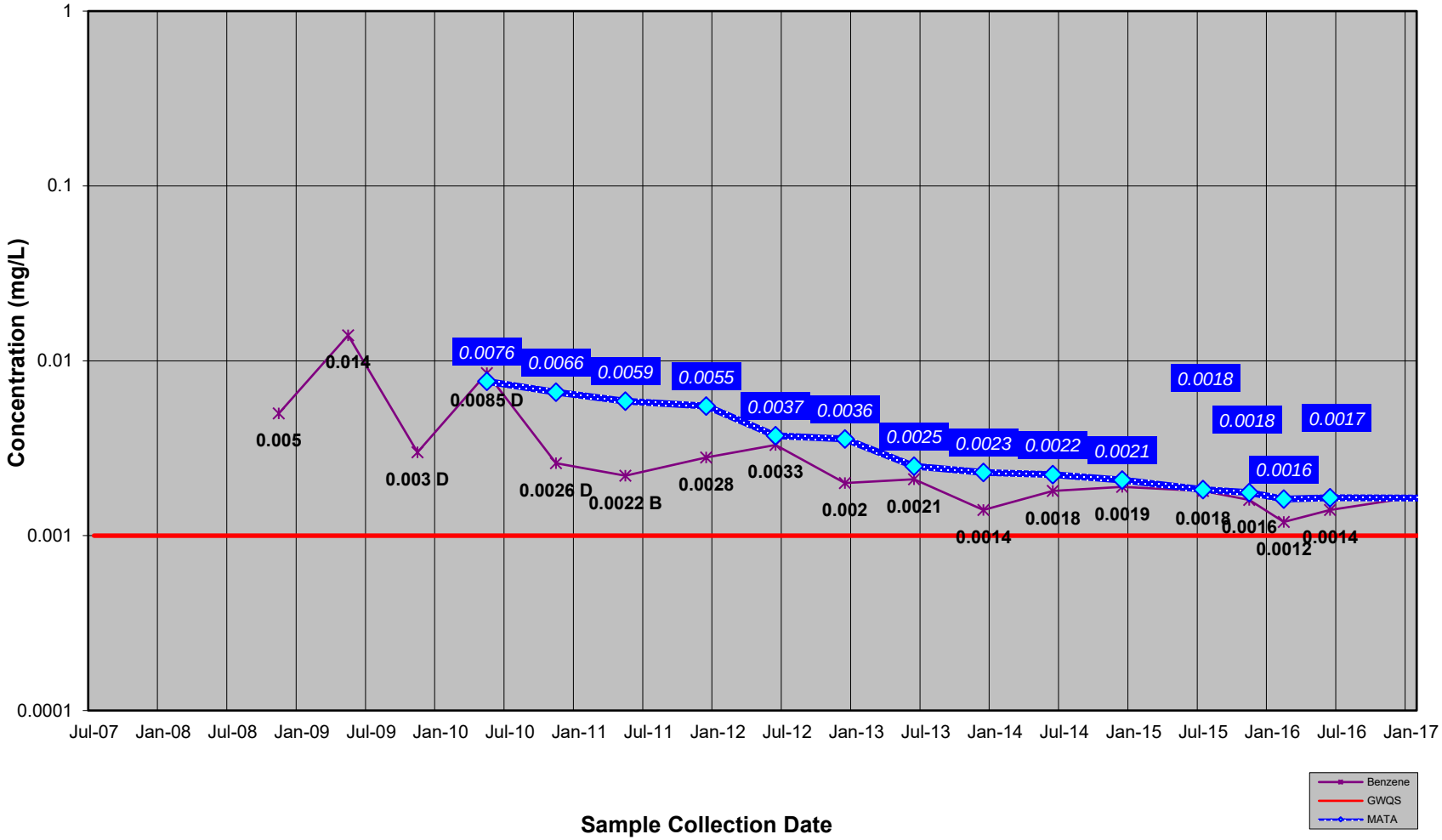
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-11
BENZENE

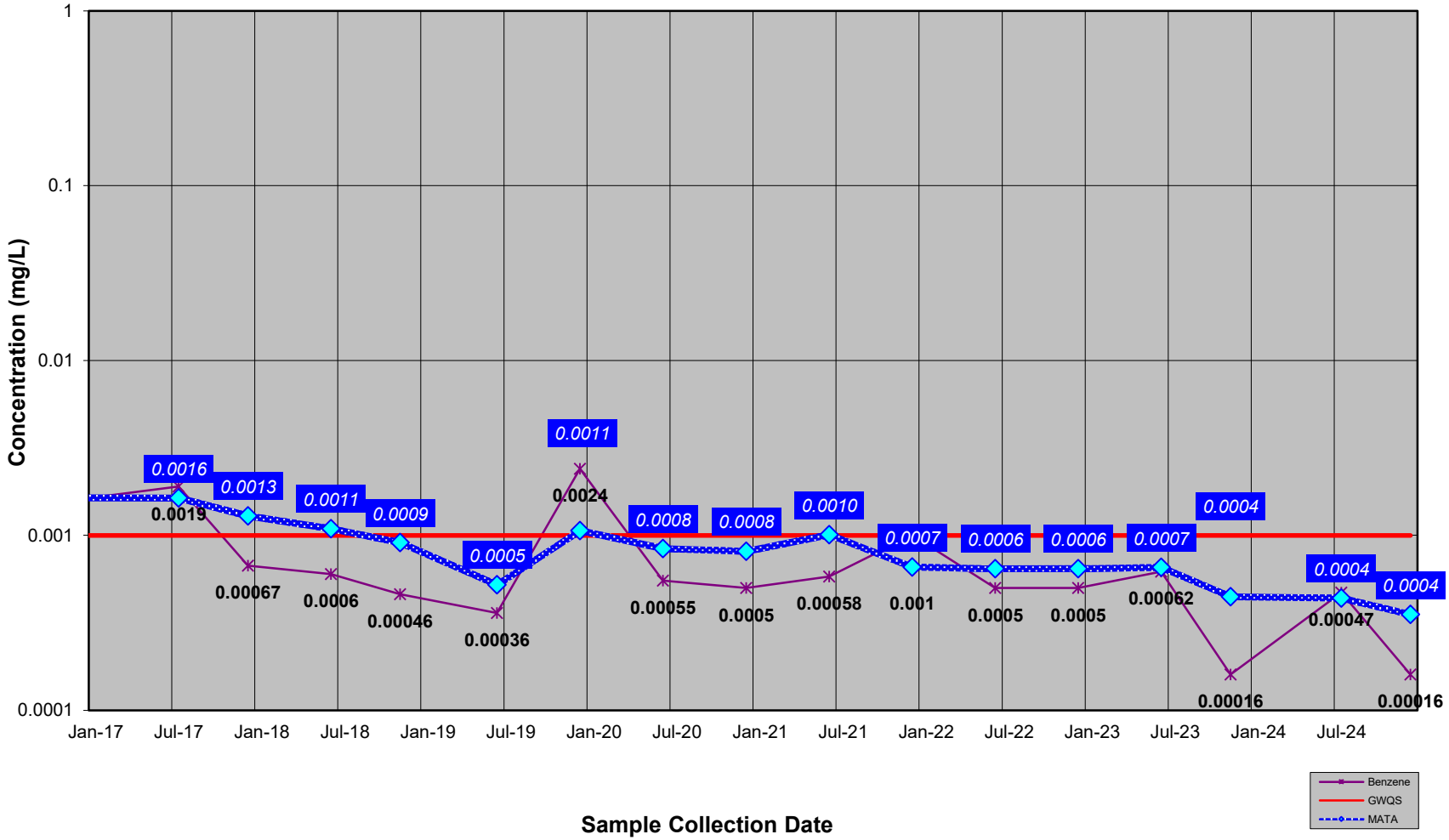
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-ORC-11
BENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



APPENDIX B

Historical Trend Analysis

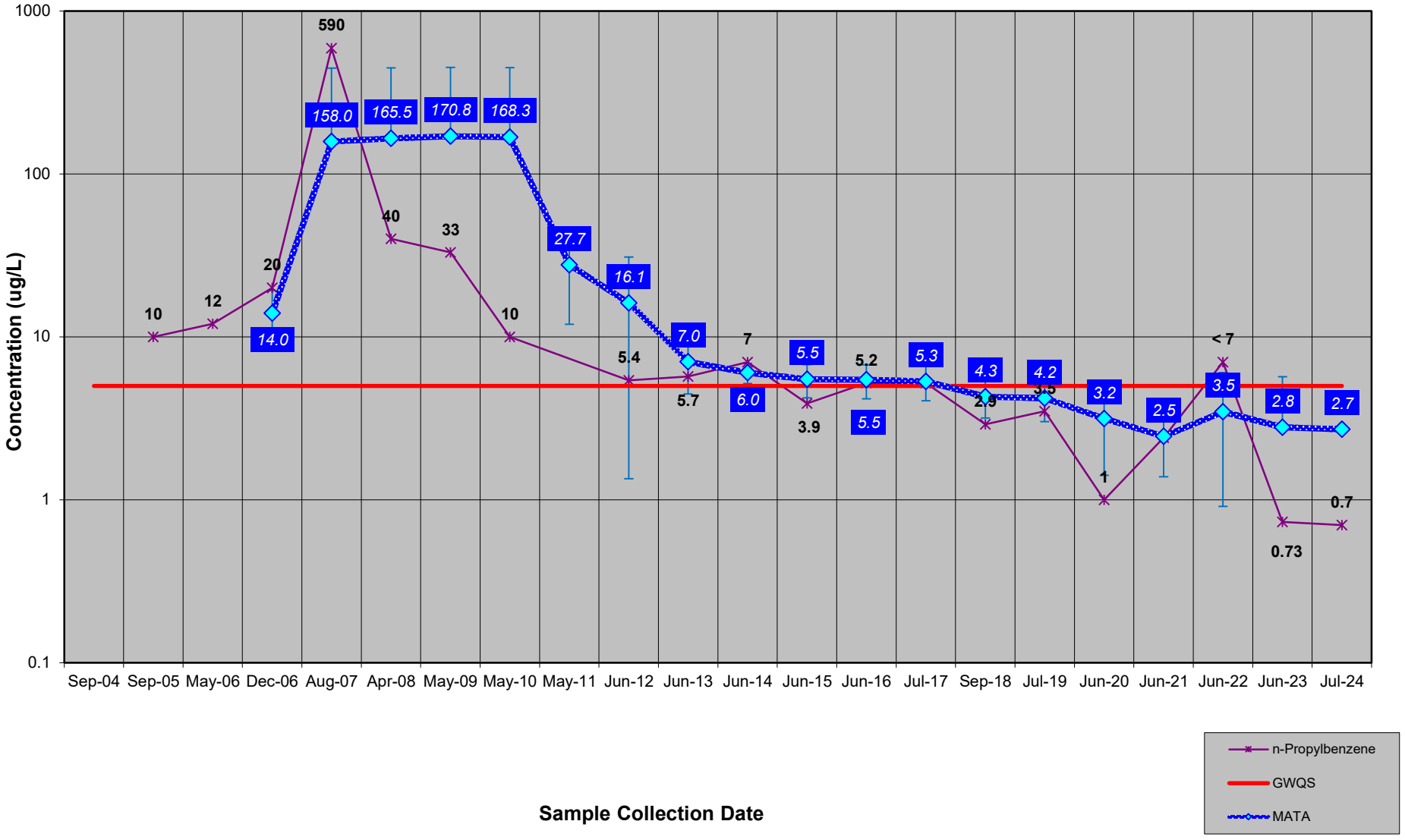
n-Butylbenzene

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A1-MW-6
n-PROPYLBENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

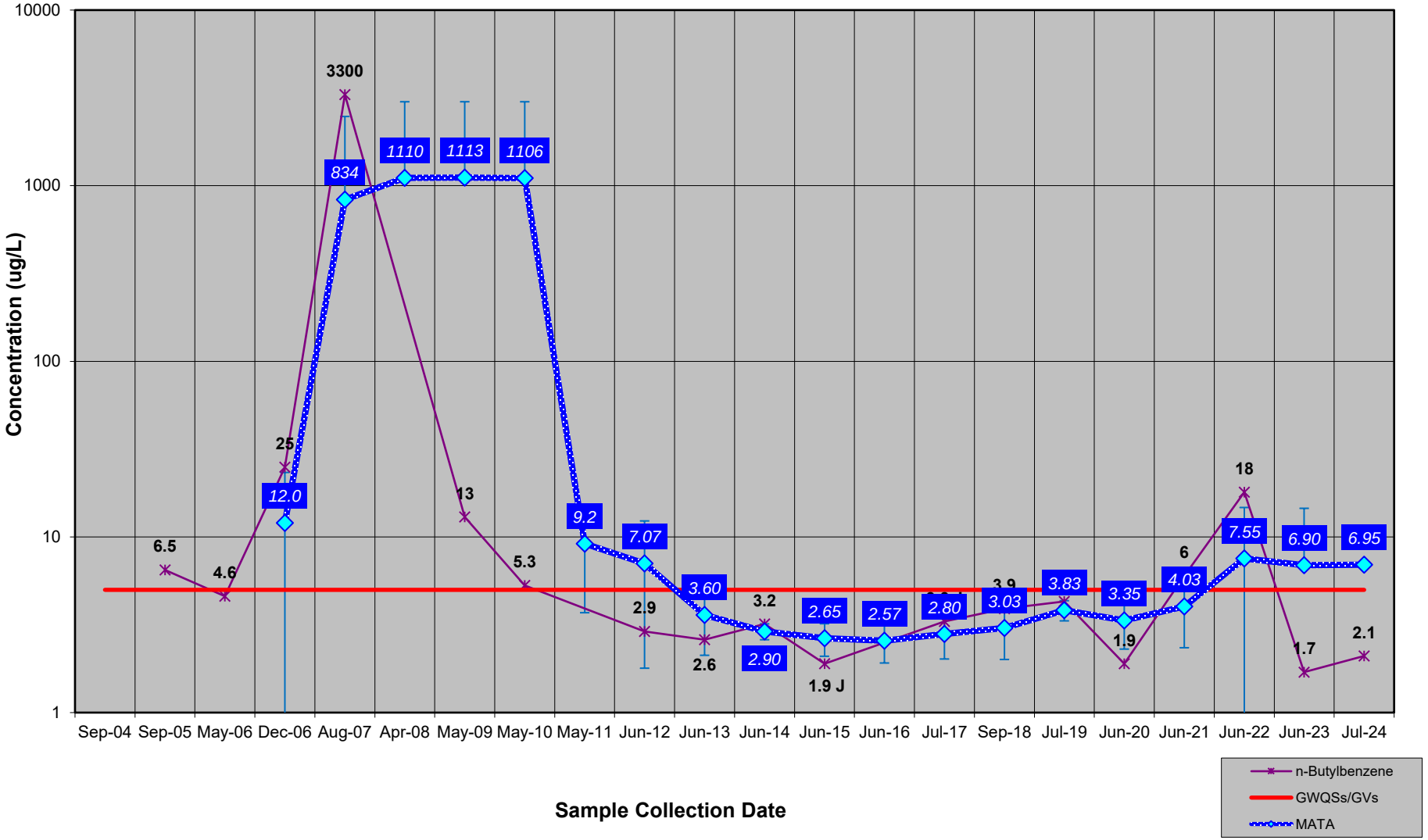


ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A1-MW-6
n-BUTYLBENZENE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



APPENDIX B

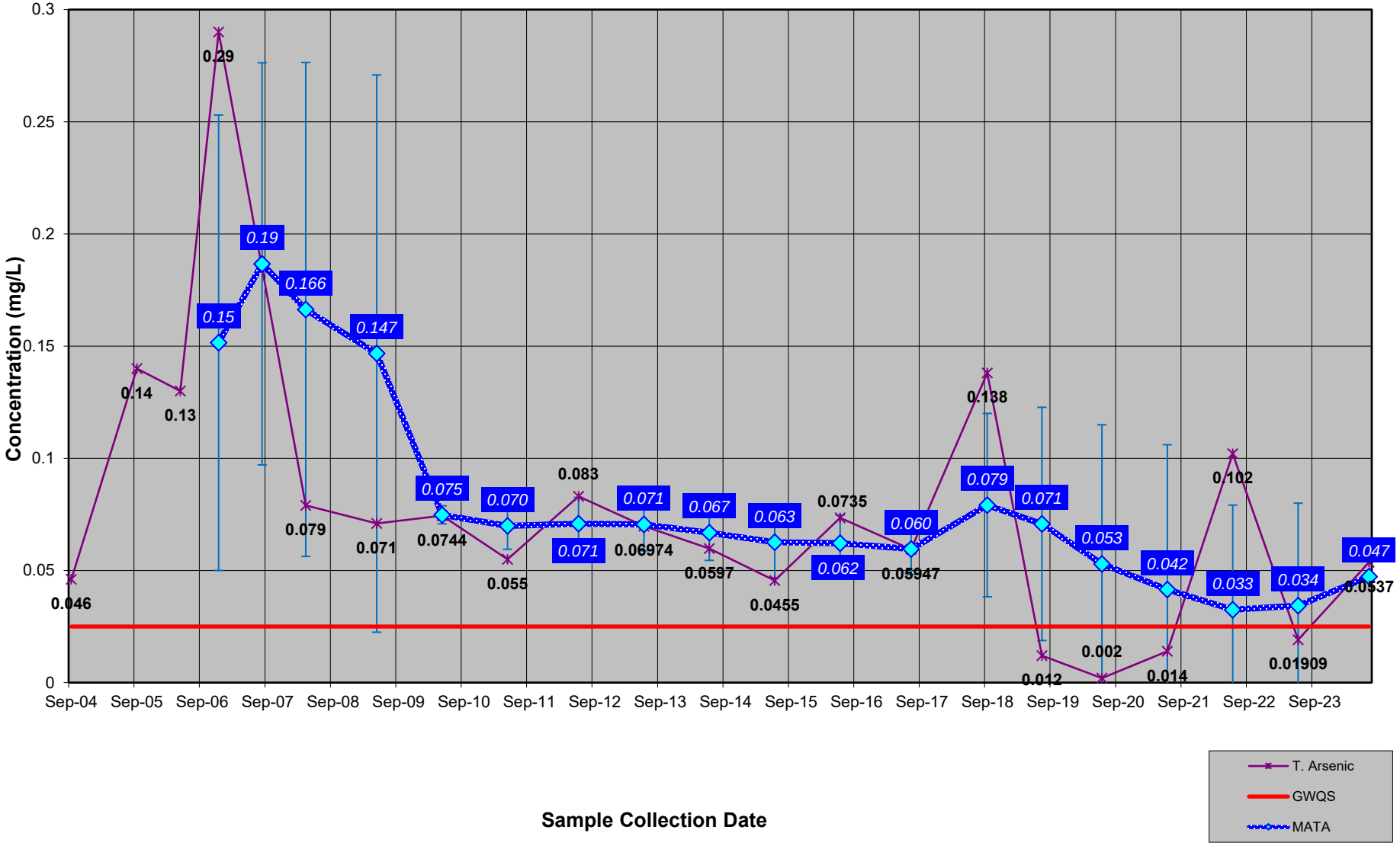
Historical Trend Analysis

Arsenic

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A1-MW-6
TOTAL ARSENIC

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



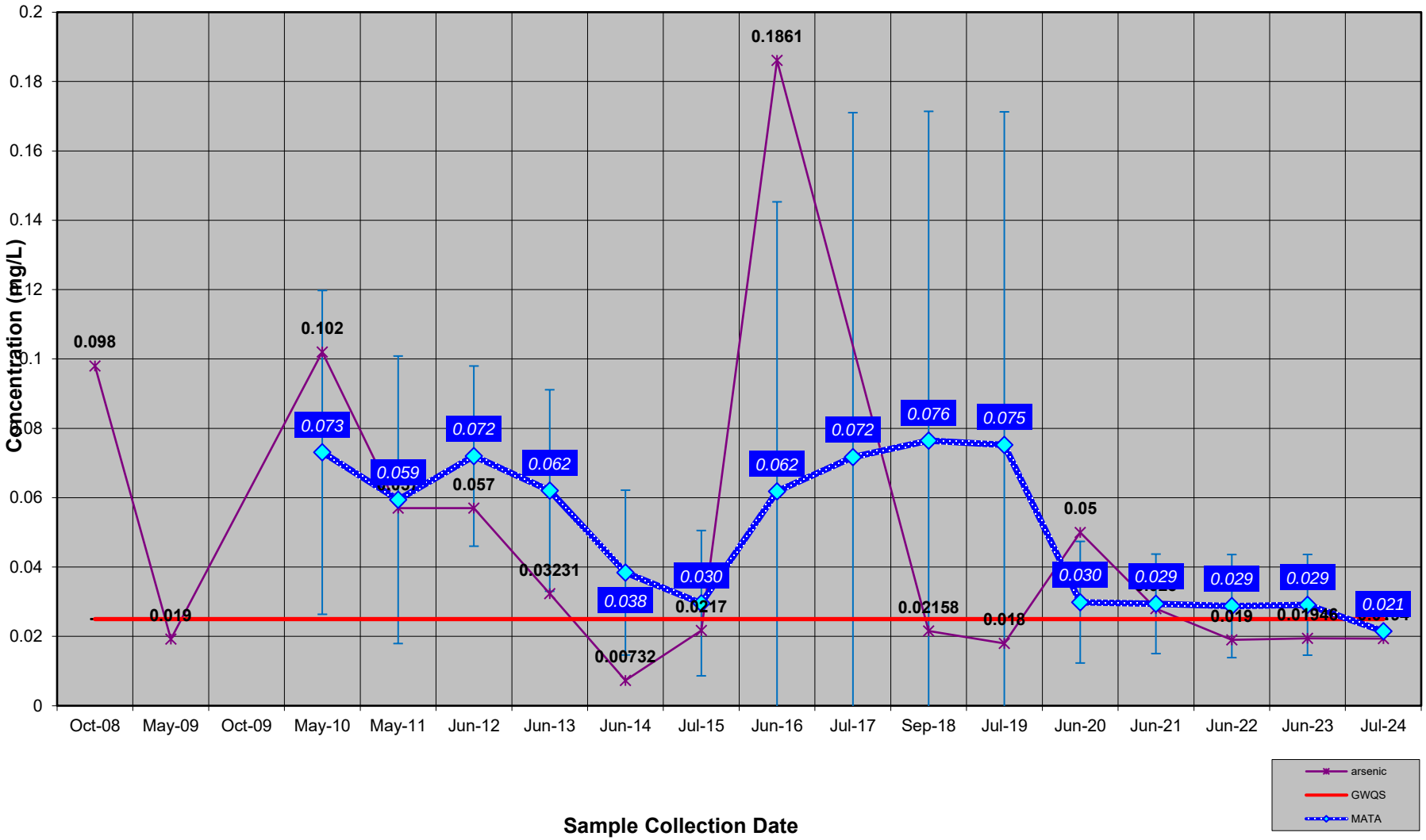
Sample Collection Date

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-3
ARSENIC

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



Sample Collection Date

APPENDIX B

Historical Trend Analysis

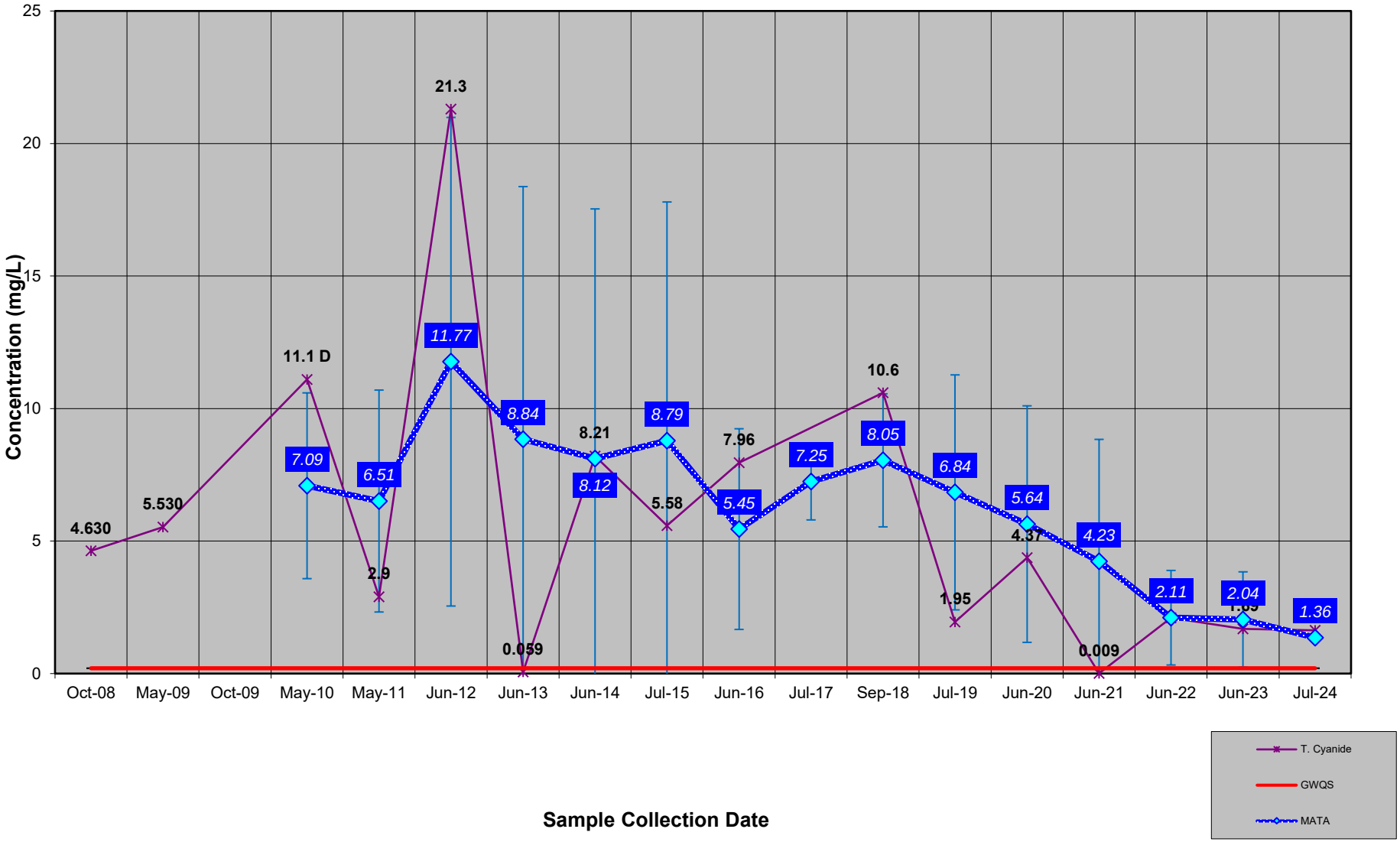
Cyanide

ROUX

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-3
TOTAL CYANIDE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York

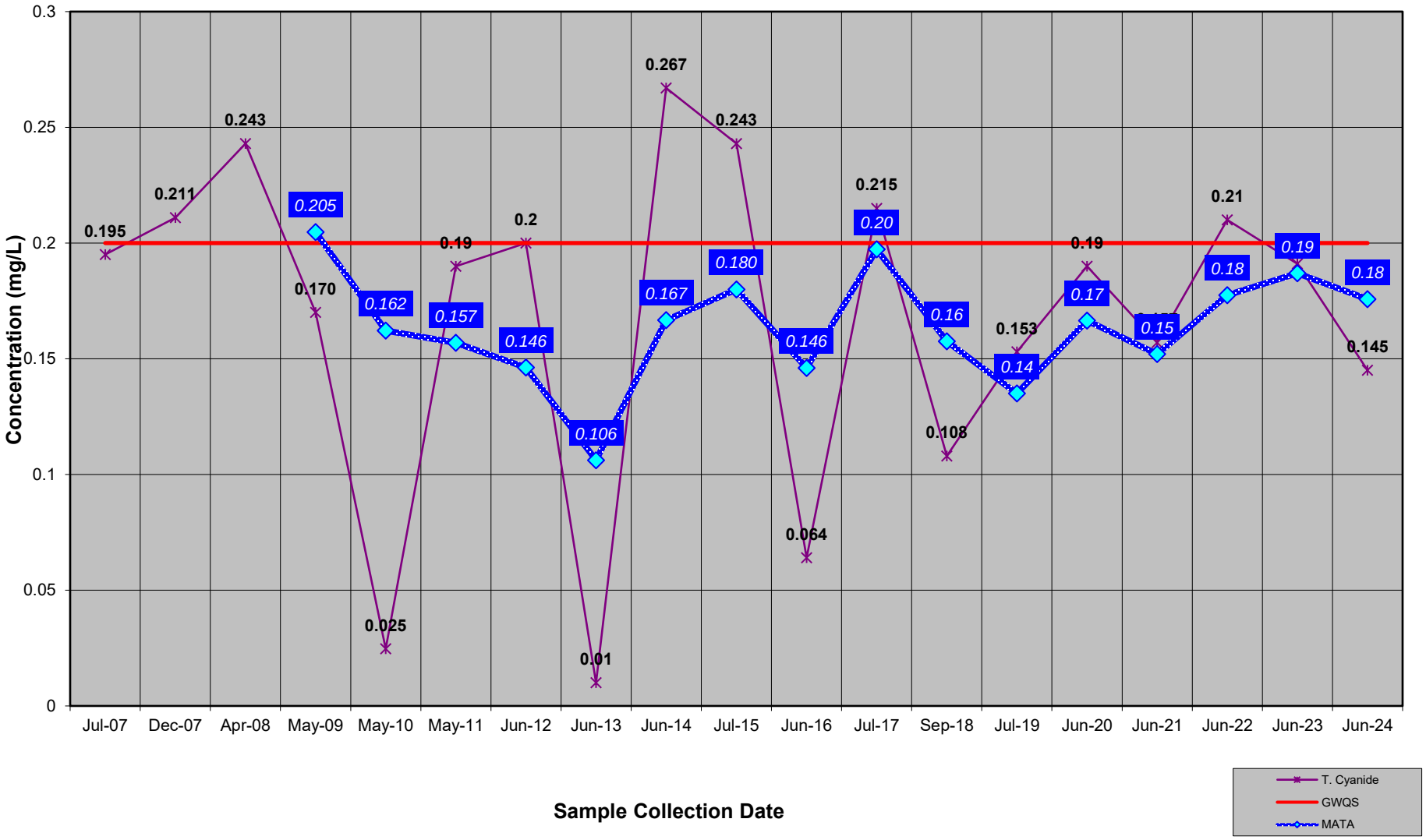


Sample Collection Date

ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-7
TOTAL CYANIDE

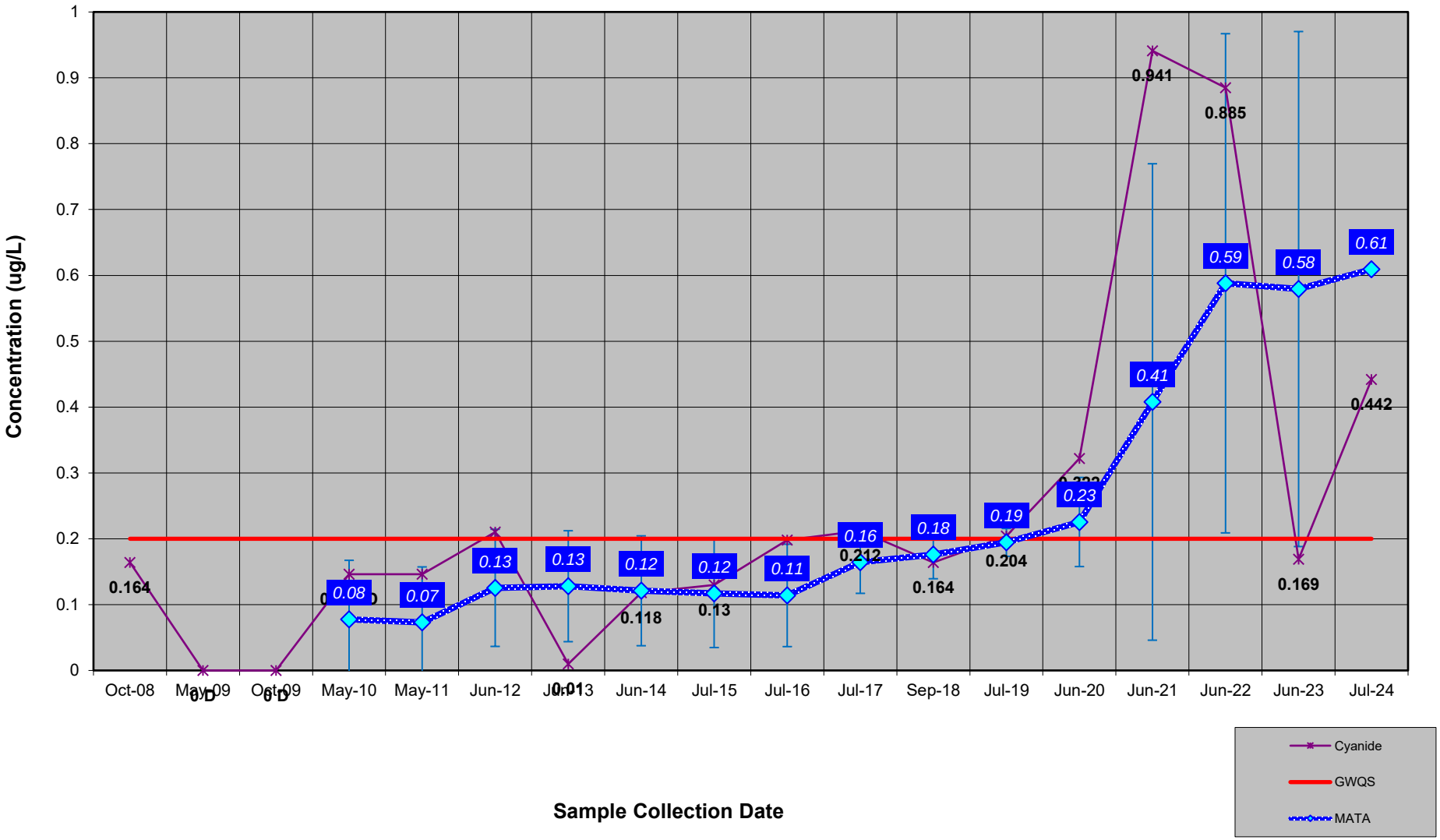
Steelfields (aka Riverbend) LTGWM
Buffalo, New York



ATTACHMENT 2

MOVING AVERAGE TREND ANALYSIS
A3-MW-10
CYANIDE

Steelfields (aka Riverbend) LTGWM
Buffalo, New York



APPENDIX C

LABORATORY ANALYTICAL DATA PACKAGE

ANALYTICAL REPORT

Lab Number:	L2442309
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND ANNUAL GWM (AREA 1)
Project Number:	4334.0001B000
Report Date:	08/01/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Project Number: 4334.0001B000

Lab Number: L2442309
Report Date: 08/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2442309-01	A1-MW-1	WATER	BUFFALO, NY	07/25/24 13:08	07/26/24
L2442309-02	A1-MW-5	WATER	BUFFALO, NY	07/25/24 00:00	07/26/24
L2442309-03	A1-MW-6	WATER	BUFFALO, NY	07/24/24 13:42	07/26/24
L2442309-04	A1-MW-8R	WATER	BUFFALO, NY	07/24/24 11:39	07/26/24
L2442309-05	A1-MW-10	WATER	BUFFALO, NY	07/24/24 10:22	07/26/24

Project Name:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Case Narrative (continued)

Report Submission

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

Volatile Organics

L2442309-03D: The sample has elevated detection limits due to the dilution required by the sample matrix (sheen).

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: Kelly O'Neill

Title: Technical Director/Representative Date: 08/01/24

ORGANICS

VOLATILES

Project Name: RIVERBEND ANNUAL GWM (AREA 1) **Lab Number:** L2442309

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-02
Client ID: A1-MW-5
Sample Location: BUFFALO, NY

Date Collected: 07/25/24 00:00
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 15:59
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVERBEND ANNUAL GWM (AREA 1) **Lab Number:** L2442309

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-03 D
Client ID: A1-MW-6
Sample Location: BUFFALO, NY

Date Collected: 07/24/24 13:42
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 16:23
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	0.33	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	2.1	J	ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVERBEND ANNUAL GWM (AREA 1) **Lab Number:** L2442309

Project Number: 4334.0001B000 **Report Date:** 08/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/31/24 08:18
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1953685-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM (AREA 1)

Project Number: 4334.0001B000

Lab Number: L2442309

Report Date: 08/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1953685-3 WG1953685-4								
Benzene	96		100		70-130	4		20
Toluene	93		98		70-130	5		20
Ethylbenzene	92		97		70-130	5		20
Methyl tert butyl ether	78		90		63-130	14		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
n-Butylbenzene	90		93		53-136	3		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	93		95		70-130	2		20
Isopropylbenzene	89		92		70-130	3		20
p-Isopropyltoluene	95		97		70-130	2		20
n-Propylbenzene	88		92		69-130	4		20
1,3,5-Trimethylbenzene	90		92		64-130	2		20
1,2,4-Trimethylbenzene	90		93		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		111		70-130
Toluene-d8	94		97		70-130
4-Bromofluorobenzene	88		86		70-130
Dibromofluoromethane	105		104		70-130

METALS

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Lab Number: L2442309
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-01
Client ID: A1-MW-1
Sample Location: BUFFALO, NY
Date Collected: 07/25/24 13:08
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0064		mg/l	0.0050	0.0019	1	07/28/24 18:37	07/29/24 09:00	EPA 3005A	19,200.7	DHL

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Lab Number: L2442309
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-03
Client ID: A1-MW-6
Sample Location: BUFFALO, NY
Date Collected: 07/24/24 13:42
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0537		mg/l	0.0050	0.0019	1	07/28/24 18:37	07/29/24 09:04	EPA 3005A	19,200.7	DHL

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Lab Number: L2442309
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-04
Client ID: A1-MW-8R
Sample Location: BUFFALO, NY
Date Collected: 07/24/24 11:39
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0168		mg/l	0.0050	0.0019	1	07/28/24 18:37	07/29/24 09:07	EPA 3005A	19,200.7	DHL

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Lab Number: L2442309
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442309-05
Client ID: A1-MW-10
Sample Location: BUFFALO, NY
Date Collected: 07/24/24 10:22
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Chromium, Total	ND		mg/l	0.0100	0.0021	1	07/28/24 18:37	07/29/24 09:10	EPA 3005A	19,200.7	DHL

Project Name: RIVERBEND ANNUAL GWM (AREA 1) **Lab Number:** L2442309

Project Number: 4334.0001B000 **Report Date:** 08/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-05 Batch: WG1952412-1										
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	07/28/24 18:37	07/29/24 07:57	19,200.7	DHL
Chromium, Total	ND		mg/l	0.0100	0.0021	1	07/28/24 18:37	07/29/24 07:57	19,200.7	DHL

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM (AREA 1)

Project Number: 4334.0001B000

Lab Number: L2442309

Report Date: 08/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-05 Batch: WG1952412-2								
Arsenic, Total	97		-		85-115	-		
Chromium, Total	96		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Project Number: 4334.0001B000

Lab Number: L2442309
Report Date: 08/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1952412-3 QC Sample: L2442411-01 Client ID: MS Sample												
Arsenic, Total	ND	0.12	0.117	98		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.191	96		-	-		75-125	-		20

Project Name: RIVERBEND ANNUAL GWM (AREA 1)
Project Number: 4334.0001B000

Lab Number: L2442309
Report Date: 08/01/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2442309-01A	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	Y	Absent		AS-UI(180)
L2442309-02A	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-02B	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-02C	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-03A	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-03B	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-03C	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442309-03D	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	Y	Absent		AS-UI(180)
L2442309-04A	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	Y	Absent		AS-UI(180)
L2442309-05A	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	Y	Absent		CR-UI(180)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RIVERBEND ANNUAL GWM (AREA 1)	**Lab Number:**	L2442309
Project Number:	4334.0001B000	**Report Date:**	08/01/24

REFERENCES

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

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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 7/27/24

ALPHA Job # L2442309

Client Information

Client: Revox Environmental
Address: 2558 Hamburg Turnpike, Ste 300 Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email: rdubis2@revoinc.com

Project Information

Project Name: Riverbend Annual Gwm (Apr 1)
Project Location: Buffalo, NY
Project #: 4334.0001.BCCC
(Use Project name as Project #)
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

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

Deliverables

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

Billing Information

X 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 X NY
☐ Other:

These samples have been previously analyzed by Alpha: --

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

8260 (D-51) | AS | CR

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	8260 (D-51)	AS	CR	Sample Specific Comments	Total Bottle
42309-01	A1-MW-1	7/25/24	1:08 pm	GW	MTF	X	X			9
02	A1-MW-5	7/25/24		GW	MTF	X				3
03	A1-MW-6	7/24/24	1:42 pm	GW	MTF	X	X			4
04	A1-MW-8R	7/24/24	11:34 am	GW	MTF	X	X			4
05	A1-MW-10	7/24/24	10:22 am	GW	MTF	X		X		4

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

Conts per 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

Container Type	V	P	P
Preservative	B	C	C

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.)

Relinquished By:	Date/Time	Received By:	Date/Time
Mikell Fokes	7/26/24 @ 1:36	PACE	7/26/24 1450
PACE	7/26/24 1515	Buffalo Service Center	
Buffalo	7-26-24 15:38	Russell B Bixby	7-26-24 15:38
Russell B Bixby	7-26-24 2000		7-26-24 2200
	7-26-24 2200		7-26-24 2300
	7-27-24 0120		7/27 1:20

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

ANALYTICAL REPORT

Lab Number:	L2442308
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND ANN. GWM (AREA 2&3)
Project Number:	4334.0001B000
Report Date:	08/01/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2442308-01	A2-MW-16	WATER	BUFFALO, NY	07/23/24 11:20	07/26/24
L2442308-02	A2-MW-17	WATER	BUFFALO, NY	07/23/24 10:56	07/26/24
L2442308-03	A3-MW-3	WATER	BUFFALO, NY	07/24/24 15:23	07/26/24
L2442308-04	A3-MW-6	WATER	BUFFALO, NY	07/24/24 15:27	07/26/24
L2442308-05	A3-MW-7	WATER	BUFFALO, NY	07/25/24 11:32	07/26/24
L2442308-06	A3-MW-9	WATER	BUFFALO, NY	07/23/24 14:46	07/26/24
L2442308-07	A3-MW-10	WATER	BUFFALO, NY	07/23/24 14:03	07/26/24

Project Name:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Case Narrative (continued)

Report Submission

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

Sample Receipt

The project name was specified by the client.

L2442308-07: Headspace was noted in the sample containers submitted for NY CP-51 Gasoline Cont. Soil - EPA 8260. The analysis was performed at the client's request.

Volatile Organics

L2442308-07: Headspace was noted in the sample container utilized for analysis.

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: Kelly O'Neill

Title: Technical Director/Representative Date: 08/01/24

ORGANICS

VOLATILES

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-01
Client ID: A2-MW-16
Sample Location: BUFFALO, NY

Date Collected: 07/23/24 11:20
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 13:08
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1.4		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	107		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-02
Client ID: A2-MW-17
Sample Location: BUFFALO, NY

Date Collected: 07/23/24 10:56
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 13:33
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	0.87	J	ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-03
Client ID: A3-MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/24/24 15:23
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 13:57
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	111		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-04
Client ID: A3-MW-6
Sample Location: BUFFALO, NY

Date Collected: 07/24/24 15:27
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 14:22
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	107		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-05
Client ID: A3-MW-7
Sample Location: BUFFALO, NY

Date Collected: 07/25/24 11:32
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 14:46
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	8.3		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	109		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-06
Client ID: A3-MW-9
Sample Location: BUFFALO, NY

Date Collected: 07/23/24 14:46
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 15:10
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-07
Client ID: A3-MW-10
Sample Location: BUFFALO, NY

Date Collected: 07/23/24 14:03
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 07/31/24 15:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1.3		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.96	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	105		70-130

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/31/24 08:18
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1953685-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)

Project Number: 4334.0001B000

Lab Number: L2442308

Report Date: 08/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1953685-3 WG1953685-4								
Benzene	96		100		70-130	4		20
Toluene	93		98		70-130	5		20
Ethylbenzene	92		97		70-130	5		20
Methyl tert butyl ether	78		90		63-130	14		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
n-Butylbenzene	90		93		53-136	3		20
sec-Butylbenzene	93		93		70-130	0		20
tert-Butylbenzene	93		95		70-130	2		20
Isopropylbenzene	89		92		70-130	3		20
p-Isopropyltoluene	95		97		70-130	2		20
n-Propylbenzene	88		92		69-130	4		20
1,3,5-Trimethylbenzene	90		92		64-130	2		20
1,2,4-Trimethylbenzene	90		93		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		111		70-130
Toluene-d8	94		97		70-130
4-Bromofluorobenzene	88		86		70-130
Dibromofluoromethane	105		104		70-130

METALS

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-01 Date Collected: 07/23/24 11:20

Client ID: A2-MW-16 Date Received: 07/26/24

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0032	J	mg/l	0.0050	0.0019	1	07/29/24 20:00	07/30/24 18:02	EPA 3005A	19,200.7	TAA
Chromium, Total	0.0083	J	mg/l	0.0100	0.0021	1	07/29/24 20:00	07/30/24 18:02	EPA 3005A	19,200.7	TAA
Lead, Total	0.0044	J	mg/l	0.0100	0.0027	1	07/29/24 20:00	07/30/24 18:02	EPA 3005A	19,200.7	TAA

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Lab Number: L2442308
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-03
Client ID: A3-MW-3
Sample Location: BUFFALO, NY
Date Collected: 07/24/24 15:23
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0194		mg/l	0.0050	0.0019	1	07/29/24 20:00	07/30/24 18:08	EPA 3005A	19,200.7	TAA

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Lab Number: L2442308
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-04
Client ID: A3-MW-6
Sample Location: BUFFALO, NY
Date Collected: 07/24/24 15:27
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0067		mg/l	0.0050	0.0019	1	07/29/24 20:00	07/30/24 19:01	EPA 3005A	19,200.7	TAA

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Lab Number: L2442308
Project Number: 4334.0001B000
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-06
Client ID: A3-MW-9
Sample Location: BUFFALO, NY
Date Collected: 07/23/24 14:46
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	0.0097	J	mg/l	0.0100	0.0027	1	07/29/24 20:00	07/30/24 19:06	EPA 3005A	19,200.7	TAA

Project Name: RIVERBEND ANN. GWM (AREA 2&3) **Lab Number:** L2442308

Project Number: 4334.0001B000 **Report Date:** 08/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1952658-1										
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	07/29/24 20:00	07/30/24 16:09	19,200.7	TAA
Chromium, Total	ND		mg/l	0.0100	0.0021	1	07/29/24 20:00	07/30/24 16:09	19,200.7	TAA
Lead, Total	ND		mg/l	0.0100	0.0027	1	07/29/24 20:00	07/30/24 16:09	19,200.7	TAA

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)

Project Number: 4334.0001B000

Lab Number: L2442308

Report Date: 08/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1952658-2								
Arsenic, Total	97		-		85-115	-		
Chromium, Total	101		-		85-115	-		
Lead, Total	98		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1952658-3 QC Sample: L2441659-01 Client ID: MS Sample												
Arsenic, Total	ND	0.12	0.105	88		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.184	92		-	-		75-125	-		20
Lead, Total	ND	0.53	0.459	87		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1952658-7 QC Sample: L2441659-02 Client ID: MS Sample												
Arsenic, Total	ND	0.12	0.106	88		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.190	95		-	-		75-125	-		20
Lead, Total	ND	0.53	0.470	89		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)

Project Number: 4334.0001B000

Lab Number: L2442308

Report Date: 08/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1952658-4 QC Sample: L2441659-01 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	0.0024J	mg/l	NC		20
Lead, Total	ND	0.0032J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1952658-8 QC Sample: L2441659-02 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-03
Client ID: A3-MW-3
Sample Location: BUFFALO, NY

Date Collected: 07/24/24 15:23
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	1.63		mg/l	0.025	0.009	5	07/31/24 19:50	08/01/24 13:53	1,9010C/9012B	JER

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-04
Client ID: A3-MW-6
Sample Location: BUFFALO, NY

Date Collected: 07/24/24 15:27
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.027		mg/l	0.005	0.001	1	07/31/24 19:50	08/01/24 13:54	1,9010C/9012B	JER

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-05
Client ID: A3-MW-7
Sample Location: BUFFALO, NY

Date Collected: 07/25/24 11:32
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.145		mg/l	0.005	0.001	1	07/31/24 19:50	08/01/24 13:22	1,9010C/9012B	JER

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

SAMPLE RESULTS

Lab ID: L2442308-07
Client ID: A3-MW-10
Sample Location: BUFFALO, NY

Date Collected: 07/23/24 14:03
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.442		mg/l	0.005	0.001	1	07/31/24 19:50	08/01/24 13:25	1,9010C/9012B	JER

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000
Lab Number: L2442308
Report Date: 08/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03-05,07 Batch: WG1953890-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/31/24 19:50	08/01/24 12:52	1,9010C/9012B	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)

Project Number: 4334.0001B000

Lab Number: L2442308

Report Date: 08/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 03-05,07		Batch: WG1953890-2		WG1953890-3			
Cyanide, Total	89		94		85-115	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-05,07 QC Batch ID: WG1953890-4 WG1953890-5 QC Sample: L2441442-08 Client ID: MS Sample												
Cyanide, Total	0.004J	0.2	0.195	98		0.189	94		80-120	12		20
General Chemistry - Westborough Lab Associated sample(s): 03-05,07 QC Batch ID: WG1953890-6 WG1953890-7 QC Sample: L2441442-09 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.168	84		0.198	99		80-120	16		20

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2442308-01A	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-01B	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-01C	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-01D	Plastic 250ml HNO3 preserved	B	<2	<2	2.5	Y	Absent		CR-UI(180),AS-UI(180),PB-UI(180)
L2442308-02A	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-02B	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-02C	Vial HCl preserved	B	NA		2.5	Y	Absent		NYCP51-8260-G(14)
L2442308-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		AS-UI(180)
L2442308-03E	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2442308-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		AS-UI(180)
L2442308-04E	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2442308-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-05D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2442308-06A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)

*Values in parentheses indicate holding time in days

Project Name: RIVERBEND ANN. GWM (AREA 2&3)
Project Number: 4334.0001B000

Lab Number: L2442308
Report Date: 08/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2442308-06B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-06C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-06D	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		PB-UI(180)
L2442308-07A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-07B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-07C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYCP51-8260-G(14)
L2442308-07D	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RIVERBEND ANN. GWM (AREA 2&3)	**Lab Number:**	L2442308
Project Number:	4334.0001B000	**Report Date:**	08/01/24

REFERENCES

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

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

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

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: 7/27/24

ALPHA Job #: L2442308

Client Information

Client: Revis Environmental
Address: 2558 Hamburg Turnpike Ste 300 Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: rdc bist@revisenv.com

Project Information

Project Name: Riverbend Annual Comm (Item 273)
Project Location: Buffalo, NY
Project #: 4334.000.BOCC
(Use Project name as Project #)
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard: X — 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 — X NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

8260 (MTBE) — As, Cr, Pb — CN

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	8260 (MTBE)	As, Cr, Pb	CN	Sample Specific Comments	Total Bottles
42308-01	A2-MW-16	7/23/24	11:20 am	GW	MTF	X	X	X	X			4
02	A2-MW-17	7/23/24	10:56 am	GW	MTF	X						3
03	A3-MW-3	7/24/24	3:23 pm	GW	MTF	X	X		X			5
04	A3-MW-6	7/24/24	3:27 pm	GW	MTF	X	X		X			5
05	A3-MW-7	7/25/24	11:32 am	GW	MTF	X			X			4
06	A3-MW-9	7/23/24	2:46 pm	GW	MTF	X		X				4
07	A3-MW-10	7/23/24	2:03 pm	GW	MTF	X			X			4

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

Container Type	V	P	P	P	P				
Preservative	B	C	C	C	A				

Relinquished By:	Date/Time	Received By:	Date/Time
Mitchell Forbes	7/26/24 @ 1:58	PACE	7/26/24 1450
PACE	7/26/24 1515	BUFFALO SERVICE CENTER	
BYFSC	7-26-24 15:38	Russell B Bisby	7-26-24 15:38
Russell B Bisby	7-26-24 2200		7-26-24 2200
	7-26-24 2300		7-26-24 2300
	7-27-24 0900		7/27 1120

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:	L2442310
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND ANNUAL GWM ORC WELLS
Project Number:	4334.0001B000
Report Date:	08/02/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000

Lab Number: L2442310
Report Date: 08/02/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2442310-01	A3-ORC-1	WATER	BUFFALO, NY	07/26/24 12:24	07/26/24
L2442310-02	A3-ORC-2	WATER	BUFFALO, NY	07/26/24 12:38	07/26/24
L2442310-03	A3-ORC-3	WATER	BUFFALO, NY	07/26/24 11:27	07/26/24
L2442310-04	A3-ORC-4	WATER	BUFFALO, NY	07/26/24 12:09	07/26/24
L2442310-05	A3-ORC-5	WATER	BUFFALO, NY	07/26/24 10:45	07/26/24
L2442310-06	A3-ORC-6	WATER	BUFFALO, NY	07/26/24 10:24	07/26/24
L2442310-07	A3-ORC-7	WATER	BUFFALO, NY	07/26/24 09:14	07/26/24
L2442310-08	A3-ORC-8	WATER	BUFFALO, NY	07/26/24 10:10	07/26/24
L2442310-09	A3-ORC-9	WATER	BUFFALO, NY	07/26/24 09:48	07/26/24
L2442310-10	A3-ORC-10	WATER	BUFFALO, NY	07/26/24 09:29	07/26/24
L2442310-11	A3-ORC-11	WATER	BUFFALO, NY	07/26/24 08:53	07/26/24

Project Name:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

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.

Alkalinity, Total

The WG1953140-3 Laboratory Duplicate RPD for alkalinity, total (14%), performed on L2442310-10, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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: 08/02/24

ORGANICS

VOLATILES

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-01 D
Client ID: A3-ORC-1
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 12:24
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 13:39
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1700		ug/l	10	3.2	20
Toluene	180		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
p/m-Xylene	34	J	ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	103		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-02 D
Client ID: A3-ORC-2
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 12:38
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 14:03
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	940		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-03 D
Client ID: A3-ORC-3
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 11:27
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/02/24 01:01
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	1600		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-04
Client ID: A3-ORC-4
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 12:09
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 12:27
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	106		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-05 D
Client ID: A3-ORC-5
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 10:45
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 14:52
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	2400		ug/l	12	4.0	25
Toluene	68		ug/l	62	18.	25
Ethylbenzene	ND		ug/l	62	18.	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-06 D
Client ID: A3-ORC-6
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 10:24
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 15:16
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	4400		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	101		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-07
Client ID: A3-ORC-7
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 09:14
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 12:51
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.36	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

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

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-08 D
Client ID: A3-ORC-8
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 10:10
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 15:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	21000		ug/l	120	40.	250
Toluene	620		ug/l	620	180	250
Ethylbenzene	ND		ug/l	620	180	250
p/m-Xylene	ND		ug/l	620	180	250
o-Xylene	ND		ug/l	620	180	250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	102		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-09 D
Client ID: A3-ORC-9
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 09:48
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 16:04
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	39000		ug/l	250	80.	500
Toluene	2600		ug/l	1200	350	500
Ethylbenzene	ND		ug/l	1200	350	500
p/m-Xylene	ND		ug/l	1200	350	500
o-Xylene	ND		ug/l	1200	350	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	102		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-10 D
Client ID: A3-ORC-10
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 09:29
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 16:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	3600		ug/l	20	6.4	40
Toluene	ND		ug/l	100	28.	40
Ethylbenzene	ND		ug/l	100	28.	40
p/m-Xylene	ND		ug/l	100	28.	40
o-Xylene	ND		ug/l	100	28.	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	103		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-11
Client ID: A3-ORC-11
Sample Location: BUFFALO, NY

Date Collected: 07/26/24 08:53
Date Received: 07/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 08/01/24 13:15
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	0.47	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	108		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/01/24 08:26
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-11 Batch: WG1954395-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	105		70-130

Project Name: RIVERBEND ANNUAL GWM ORC WELLS **Lab Number:** L2442310

Project Number: 4334.0001B000 **Report Date:** 08/02/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/01/24 18:17
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1954501-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM ORC WELLS

Project Number: 4334.0001B000

Lab Number: L2442310

Report Date: 08/02/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-11 Batch: WG1954395-3 WG1954395-4								
Benzene	96		100		70-130	4		20
Toluene	93		100		70-130	7		20
Ethylbenzene	92		98		70-130	6		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	88		85		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM ORC WELLS

Project Number: 4334.0001B000

Lab Number: L2442310

Report Date: 08/02/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1954501-3 WG1954501-4								
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	98		100		70-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		98		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	101		102		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-01
Client ID: A3-ORC-1
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water
Date Collected: 07/26/24 12:24
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	187.		mg CaCO3/L	2.00	NA	1	-	07/30/24 12:38	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-02
Client ID: A3-ORC-2
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 12:38
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/30/24 12:43	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-03
Client ID: A3-ORC-3
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 11:27
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	63.3		mg CaCO3/L	2.00	NA	1	-	07/30/24 12:44	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-04
Client ID: A3-ORC-4
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 12:09
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	318.		mg CaCO3/L	2.00	NA	1	-	07/30/24 12:47	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-05
Client ID: A3-ORC-5
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 10:45
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	263.		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:04	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-06
Client ID: A3-ORC-6
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 10:24
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:11	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-07
Client ID: A3-ORC-7
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 09:14
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	126.		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:12	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-08
Client ID: A3-ORC-8
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 10:10
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	341.		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:16	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-09
Client ID: A3-ORC-9
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 09:48
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:32	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-10
Client ID: A3-ORC-10
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 09:29
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	536.		mg CaCO3/L	4.00	NA	2	-	07/30/24 15:38	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

SAMPLE RESULTS

Lab ID: L2442310-11
Client ID: A3-ORC-11
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/26/24 08:53
Date Received: 07/26/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	329.		mg CaCO3/L	2.00	NA	1	-	07/30/24 15:06	121,2320B	MRW

Project Name: RIVERBEND ANNUAL GWM ORC WEL
Project Number: 4334.0001B000
Lab Number: L2442310
Report Date: 08/02/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG1953137-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/30/24 13:47	121,2320B	MRW
General Chemistry - Westborough Lab for sample(s): 10-11 Batch: WG1953140-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/30/24 16:00	121,2320B	MRW

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM ORC WELLS

Project Number: 4334.0001B000

Lab Number: L2442310

Report Date: 08/02/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG1953137-2								
Alkalinity, Total	106		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 10-11 Batch: WG1953140-2								
Alkalinity, Total	106		-		90-110	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000

Lab Number: L2442310
Report Date: 08/02/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1953137-4 QC Sample: L2442183-01 Client ID: MS Sample												
Alkalinity, Total	77.9	100	186	108		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 10-11 QC Batch ID: WG1953140-4 QC Sample: L2442310-10 Client ID: A3-ORC-10												
Alkalinity, Total	536.	200	733	98		-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVERBEND ANNUAL GWM ORC WELLS

Project Number: 4334.0001B000

Lab Number: L2442310

Report Date: 08/02/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1953137-3 QC Sample: L2442183-01 Client ID: DUP Sample						
Alkalinity, Total	77.9	76.7	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 10-11 QC Batch ID: WG1953140-3 QC Sample: L2442310-10 Client ID: A3-ORC-10						
Alkalinity, Total	536.	620	mg CaCO3/L	**14**	Q	10

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000

Lab Number: L2442310
Report Date: 08/02/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2442310-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-01D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-02D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-03D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-04D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-05D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-06A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-06B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)

*Values in parentheses indicate holding time in days

Project Name: RIVERBEND ANNUAL GWM ORC WELLS
Project Number: 4334.0001B000

Lab Number: L2442310
Report Date: 08/02/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2442310-06C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-06D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-07A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-07B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-07C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-07D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-08A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-08B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-08C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-08D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-09A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-09B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-09C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-09D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-10A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-10B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-10C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-10D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2442310-11A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-11B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-11C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-BTEX(14)
L2442310-11D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RIVERBEND ANNUAL GWM ORC WELLS	**Lab Number:**	L2442310
Project Number:	4334.0001B000	**Report Date:**	08/02/24

REFERENCES

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

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

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

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 2

Date Rec'd in Lab: 7/27/10

ALPHA Job #: L2442310

Project Information
Project Name: Riverbend Annual GWM ORC Wells
Project Location: Buffalo NY
Project #: 4334.0001B000
(Use Project name as Project #): ☐
Project Manager: Candace Fox
ALPHAQuote #:

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

Client Information
Client: Ravn Environmental
Address: 2558 Hamburg Turnpike Ste 300, Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email: rdubis2@Ravninc.com

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:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
ALK-T-2320
NYTCL-8260-BTEX

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

Total # Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ALK-T-2320	NYTCL-8260-BTEX	Sample Specific Comments	Total # Bottles
42310-01	A3-ORC-1	7/26/24	12:24	GW	MTF	X	X		4
02	A3-ORC-2	7/26/24	12:38	GW	MTF	X	X		4
03	A3-ORC-3	7/26/24	11:27	GW	MTF	X	X		4
04	A3-ORC-4	7/26/24	12:09	GW	MTF	X	X		4
05	A3-ORC-5	7/26/24	10:45	GW	MTF	X	X		4
06	A3-ORC-6	7/26/24	10:24	GW	MTF	X	X		4
07	A3-ORC-7	7/26/24	9:14	GW	MTF	X	X		4
08	A3-ORC-8	7/26/24	10:10	GW	MTF	X	X		4
09	A3-ORC-9	7/26/24	9:48	GW	MTF	X	X		4
10	A3-ORC-10	7/26/24	9:79	GW	MTF	X	X		4

Container Type: P V
Preservative: A B

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
Mitchell Folkes	7/26/24 @ 2:10	PACE	7/26/24 1450
PACE	7/26/24 1515	CENTRAL	
FEDEX	7-26-24 15:36	Russell B Bisby	7/26/24 15:36
Russell B Bisby	7-26-24 2226-24		7-26-24 23a
	7-27-24 0120	Julie	7/27 1:20

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)

NEW YORK CHAIN OF CUSTODY

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

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 2 of 2

Date Rec'd in Lab 7/27/10

ALPHA Job # L2442310

Client Information
Client: Roux Environmental
Address: 2558 Hamburg Turnpike
Ste 300, Buffalo, NY, 14218
Phone: 716-856-0599
Fax:
Email: rdub is2@rouxinc.com

Project Information
Project Name: Riverbend Annual GWM OMC Wells
Project Location: Buffalo NY
Project # 4324.0001B000
(Use Project name as Project #) ☐
Project Manager: Candace Fox
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:

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	A-LIST-232 U	NYTCL-8260-BEX	Total Bottle	Sample Specific Comments
42310-11	A3-OMC-11	7/26/24	8:53am	GW	MFF	X	X		4

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

Container Type	P	V						
Preservative	A	B						

Relinquished By:	Date/Time	Received By:	Date/Time
Mike Hill Forbes	7/26/24 @ 7:15	PACE	7/26/24 1450
PACE	7/26/24 1515	Buffalo Service Center	
PACE FSC	7-26-24 15:38	Russell B Bisby	7-26-24 15:38
Russell B Bisby	7-26-24 2000		7-26-24 2200
	7-26-24 2200		7-26-24 2200
	7-27-24 0120		Online 7/27 1:20

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:	L2475459
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND A3 ORC WELLS
Project Number:	4334.0002B000
Report Date:	12/30/24

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2475459-01	A3-ORC-1	WATER	SOUTH BUFFALO	12/20/24 12:20	12/20/24
L2475459-02	A3-ORC-2	WATER	SOUTH BUFFALO	12/20/24 12:26	12/20/24
L2475459-03	A3-ORC-3	WATER	SOUTH BUFFALO	12/20/24 11:49	12/20/24
L2475459-04	A3-ORC-4	WATER	SOUTH BUFFALO	12/20/24 12:04	12/20/24
L2475459-05	A3-ORC-5	WATER	SOUTH BUFFALO	12/20/24 11:35	12/20/24
L2475459-06	A3-ORC-6	WATER	SOUTH BUFFALO	12/20/24 11:23	12/20/24
L2475459-07	A3-ORC-7	WATER	SOUTH BUFFALO	12/20/24 10:33	12/20/24
L2475459-08	A3-ORC-8	WATER	SOUTH BUFFALO	12/20/24 11:13	12/20/24
L2475459-09	A3-ORC-9	WATER	SOUTH BUFFALO	12/20/24 10:52	12/20/24
L2475459-10	A3-ORC-10	WATER	SOUTH BUFFALO	12/20/24 10:22	12/20/24
L2475459-11	A3-ORC-11	WATER	SOUTH BUFFALO	12/20/24 10:02	12/20/24

Project Name:	RIVERBEND A3 ORC WELLS	**Lab Number:**	L2475459
Project Number:	4334.0002B000	**Report Date:**	12/30/24

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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:	RIVERBEND A3 ORC WELLS	**Lab Number:**	L2475459
Project Number:	4334.0002B000	**Report Date:**	12/30/24

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: Kelly O'Neill

Title: Technical Director/Representative Date: 12/30/24

ORGANICS

VOLATILES

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-01 D
Client ID: A3-ORC-1
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 12:20
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 11:19
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	810		ug/l	5.0	1.6	10
Toluene	150		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-01 D
Client ID: A3-ORC-1
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 12:20
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	1.7	10
p/m-Xylene	26		ug/l	25	7.0	10
o-Xylene	12	J	ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	96		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-02 D
Client ID: A3-ORC-2
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 12:26
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 11:41
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	1800		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-02 D
Client ID: A3-ORC-2
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 12:26
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	3.3	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-03 D
Client ID: A3-ORC-3
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:49
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 12:03
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	1200		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-03 D Date Collected: 12/20/24 11:49

Client ID: A3-ORC-3 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	1.7	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	17	J	ug/l	50	15.	10
Carbon disulfide	12	J	ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-04
Client ID: A3-ORC-4
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 12:04
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 14:17
Analyst: PID

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

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-04 Date Collected: 12/20/24 12:04

Client ID: A3-ORC-4 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-05
Client ID: A3-ORC-5
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:35
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 13:55
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	23		ug/l	0.50	0.16	1
Toluene	1.8	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-05 Date Collected: 12/20/24 11:35

Client ID: A3-ORC-5 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-06 D
Client ID: A3-ORC-6
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:23
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 12:25
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	ND		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	4800		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	ND		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50
Trichloroethene	ND		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-06 D
Client ID: A3-ORC-6
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:23
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50
Methyl tert butyl ether	ND		ug/l	120	8.3	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	ND		ug/l	120	35.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	ND		ug/l	250	73.	50
Carbon disulfide	65	J	ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
Methyl Acetate	ND		ug/l	100	12.	50
Cyclohexane	ND		ug/l	500	14.	50
1,4-Dioxane	ND		ug/l	12000	3000	50
Freon-113	ND		ug/l	120	35.	50
Methyl cyclohexane	ND		ug/l	500	20.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-07
Client ID: A3-ORC-7
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 10:33
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 14:39
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.95		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	2.4	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-07 Date Collected: 12/20/24 10:33

Client ID: A3-ORC-7 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	1.0	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.28	J	ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-08 D
Client ID: A3-ORC-8
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:13
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 12:48
Analyst: PID

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

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-08 D
Client ID: A3-ORC-8
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 11:13
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25
Methyl tert butyl ether	ND		ug/l	62	4.2	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	ND		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Isopropylbenzene	ND		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
Methyl Acetate	ND		ug/l	50	5.8	25
Cyclohexane	ND		ug/l	250	6.8	25
1,4-Dioxane	ND		ug/l	6200	1500	25
Freon-113	ND		ug/l	62	18.	25
Methyl cyclohexane	ND		ug/l	250	9.9	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-09 D
Client ID: A3-ORC-9
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 10:52
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 13:10
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1200	350	500
1,1-Dichloroethane	ND		ug/l	1200	350	500
Chloroform	ND		ug/l	1200	350	500
Carbon tetrachloride	ND		ug/l	250	67.	500
1,2-Dichloropropane	ND		ug/l	500	68.	500
Dibromochloromethane	ND		ug/l	250	74.	500
1,1,2-Trichloroethane	ND		ug/l	750	250	500
Tetrachloroethene	ND		ug/l	250	90.	500
Chlorobenzene	ND		ug/l	1200	350	500
Trichlorofluoromethane	ND		ug/l	1200	350	500
1,2-Dichloroethane	ND		ug/l	250	66.	500
1,1,1-Trichloroethane	ND		ug/l	1200	350	500
Bromodichloromethane	ND		ug/l	250	96.	500
trans-1,3-Dichloropropene	ND		ug/l	250	82.	500
cis-1,3-Dichloropropene	ND		ug/l	250	72.	500
Bromoform	ND		ug/l	1000	320	500
1,1,2,2-Tetrachloroethane	ND		ug/l	250	84.	500
Benzene	55000		ug/l	250	80.	500
Toluene	3900		ug/l	1200	350	500
Ethylbenzene	ND		ug/l	1200	350	500
Chloromethane	ND		ug/l	1200	350	500
Bromomethane	ND		ug/l	1200	350	500
Vinyl chloride	ND		ug/l	500	36.	500
Chloroethane	ND		ug/l	1200	350	500
1,1-Dichloroethene	ND		ug/l	250	84.	500
trans-1,2-Dichloroethene	ND		ug/l	1200	350	500
Trichloroethene	ND		ug/l	250	88.	500
1,2-Dichlorobenzene	ND		ug/l	1200	350	500

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-09 D
Client ID: A3-ORC-9
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 10:52
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1200	350	500
1,4-Dichlorobenzene	ND		ug/l	1200	350	500
Methyl tert butyl ether	ND		ug/l	1200	83.	500
p/m-Xylene	ND		ug/l	1200	350	500
o-Xylene	ND		ug/l	1200	350	500
cis-1,2-Dichloroethene	ND		ug/l	1200	350	500
Styrene	ND		ug/l	1200	350	500
Dichlorodifluoromethane	ND		ug/l	2500	500	500
Acetone	ND		ug/l	2500	730	500
Carbon disulfide	ND		ug/l	2500	500	500
2-Butanone	ND		ug/l	2500	970	500
4-Methyl-2-pentanone	ND		ug/l	2500	500	500
2-Hexanone	ND		ug/l	2500	500	500
Bromochloromethane	ND		ug/l	1200	350	500
1,2-Dibromoethane	ND		ug/l	1000	320	500
1,2-Dibromo-3-chloropropane	ND		ug/l	1200	350	500
Isopropylbenzene	ND		ug/l	1200	350	500
1,2,3-Trichlorobenzene	ND		ug/l	1200	350	500
1,2,4-Trichlorobenzene	ND		ug/l	1200	350	500
Methyl Acetate	ND		ug/l	1000	120	500
Cyclohexane	ND		ug/l	5000	140	500
1,4-Dioxane	ND		ug/l	120000	30000	500
Freon-113	ND		ug/l	1200	350	500
Methyl cyclohexane	ND		ug/l	5000	200	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-10
Client ID: A3-ORC-10
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 10:22
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 13:32
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	22		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-10 Date Collected: 12/20/24 10:22

Client ID: A3-ORC-10 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-11
Client ID: A3-ORC-11
Sample Location: SOUTH BUFFALO

Date Collected: 12/20/24 10:02
Date Received: 12/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/27/24 15:01
Analyst: PID

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

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-11 Date Collected: 12/20/24 10:02

Client ID: A3-ORC-11 Date Received: 12/20/24

Sample Location: SOUTH BUFFALO Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/27/24 08:20
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2014160-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/27/24 08:20
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2014160-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/27/24 08:20
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG2014160-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2014160-3 WG2014160-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	96		97		70-130	1		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	100		99		63-132	1		20
1,2-Dichloropropane	92		92		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		120		75-130	9		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	86		87		70-130	1		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	94		94		67-130	0		20
trans-1,3-Dichloropropene	97		100		70-130	3		20
cis-1,3-Dichloropropene	94		96		70-130	2		20
Bromoform	95		100		54-136	5		20
1,1,2,2-Tetrachloroethane	99		110		67-130	11		20
Benzene	100		100		70-130	0		20
Toluene	110		120		70-130	9		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	88		88		64-130	0		20
Bromomethane	120		130		39-139	8		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2014160-3 WG2014160-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	110		120		70-130	9		20
1,3-Dichlorobenzene	110		130		70-130	17		20
1,4-Dichlorobenzene	110		120		70-130	9		20
Methyl tert butyl ether	82		86		63-130	5		20
p/m-Xylene	115		120		70-130	4		20
o-Xylene	110		115		70-130	4		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Styrene	115		120		70-130	4		20
Dichlorodifluoromethane	81		79		36-147	3		20
Acetone	79		84		58-148	6		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	88		94		63-138	7		20
4-Methyl-2-pentanone	69		79		59-130	14		20
2-Hexanone	68		77		57-130	12		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	87		100		41-144	14		20
Isopropylbenzene	110		120		70-130	9		20
1,2,3-Trichlorobenzene	92		100		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG2014160-3 WG2014160-4								
1,2,4-Trichlorobenzene	98		110		70-130	12		20
Methyl Acetate	82		88		70-130	7		20
Cyclohexane	96		95		70-130	1		20
1,4-Dioxane	86		92		56-162	7		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		87		70-130
Toluene-d8	106		108		70-130
4-Bromofluorobenzene	96		101		70-130
Dibromofluoromethane	101		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-01
Client ID: A3-ORC-1
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water
Date Collected: 12/20/24 12:20
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	223.		mg CaCO3/L	4.00	NA	2	-	12/27/24 08:16	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-02
Client ID: A3-ORC-2
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 12:26
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	28.9		mg CaCO3/L	2.00	NA	1	-	12/27/24 09:44	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-03
Client ID: A3-ORC-3
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 11:49
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/27/24 09:59	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-04
Client ID: A3-ORC-4
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 12:04
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	214.		mg CaCO3/L	4.00	NA	2	-	12/27/24 08:30	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-05
Client ID: A3-ORC-5
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 11:35
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	359.		mg CaCO3/L	4.00	NA	2	-	12/27/24 08:38	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-06
Client ID: A3-ORC-6
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 11:23
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/27/24 10:01	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-07
Client ID: A3-ORC-7
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water
Date Collected: 12/20/24 10:33
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	311.		mg CaCO3/L	4.00	NA	2	-	12/27/24 08:46	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-08
Client ID: A3-ORC-8
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 11:13
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	524.		mg CaCO3/L	4.00	NA	2	-	12/27/24 09:01	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-09
Client ID: A3-ORC-9
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water
Date Collected: 12/20/24 10:52
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/27/24 10:02	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-10
Client ID: A3-ORC-10
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water

Date Collected: 12/20/24 10:22
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	388.		mg CaCO3/L	4.00	NA	2	-	12/27/24 09:23	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

SAMPLE RESULTS

Lab ID: L2475459-11
Client ID: A3-ORC-11
Sample Location: SOUTH BUFFALO
Sample Depth:
Matrix: Water
Date Collected: 12/20/24 10:02
Date Received: 12/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	309.		mg CaCO3/L	4.00	NA	2	-	12/27/24 09:33	121,2320B	MRM

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000
Lab Number: L2475459
Report Date: 12/30/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-11 Batch: WG2013929-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/27/24 08:07	121,2320B	MRM

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 Batch: WG2013929-2								
Alkalinity, Total	104		-		90-110	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG2013929-4 QC Sample: L2475524-01 Client ID: MS Sample												
Alkalinity, Total	40.5	100	244	**203**	Q	-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVERBEND A3 ORC WELLS

Project Number: 4334.0002B000

Lab Number: L2475459

Report Date: 12/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG2013929-3 QC Sample: L2475524-01 Client ID: DUP Sample						
Alkalinity, Total	40.5	42.5	mg CaCO3/L	5		10

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

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(*)
L2475459-01A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-01B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-01C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-01D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-02A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-02B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-02C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-02D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-03A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-03B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-03C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-03D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-04A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-04B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-04C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-04D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-05A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-05B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-05C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-05D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-06A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-06B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-06C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: RIVERBEND A3 ORC WELLS
Project Number: 4334.0002B000

Lab Number: L2475459
Report Date: 12/30/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2475459-06D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-07A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-07B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-07C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-07D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-08A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-08B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-08C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-08D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-09A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-09B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-09C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-09D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-10A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-10B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-10C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-10D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2475459-11A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-11B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-11C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260-R2(14)
L2475459-11D	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND A3 ORC WELLS	**Lab Number:**	L2475459
Project Number:	4334.0002B000	**Report Date:**	12/30/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND A3 ORC WELLS	**Lab Number:**	L2475459
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND A3 ORC WELLS	**Lab Number:**	L2475459
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Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: RIVERBEND A3 ORC WELLS **Lab Number:** L2475459

Project Number: 4334.0002B000 **Report Date:** 12/30/24

REFERENCES

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

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

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
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.
Nonpotable Water: EPA RSK-175 Dissolved Gases

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

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

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

ALPHA

NEW YORK CHAIN OF CUSTODY

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

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 2

Date Rec'd in Lab: 12/21/24

ALPHA Job #: L2475459

Client Information
Client: Roux
Address: 2558 Hamburg Turnpike
Ste 300 Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: rdubisz@rouxinc.com

Project Information
Project Name: Riverbend A3 ORC Wells
Project Location: South Buffalo
Project #: 4334.0002B000
(Use Project name as Project #)
Project Manager: Rick Dubisz
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables
ASP-A / ASP-B
EQuIS (1 File) / EQuIS (4 File)
Other

Billing Information
X 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 / X NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ALK-T-2320	NY TCL-8260	Sample Specific Comments	Total Bottles
75459-01	A3-ORC-1	12/20/24	12:20	GW	MTF	X	X		4
-02	A3-ORC-2		12:26			X	X		4
-03	A3-ORC-3		11:49			X	X		4
-04	A3-ORC-4		12:04			X	X		4
-05	A3-ORC-5		11:35			X	X		4
-06	A3-ORC-6		11:23			X	X		4
-07	A3-ORC-7		10:33			X	X		4
-08	A3-ORC-8		11:13			X	X		4
-09	A3-ORC-9		10:52			X	X		4
-10	A3-ORC-10		10:22			X	X		4

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

Container Type	P	V								
Preservative	A	B								

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
Mitchell Forbes	12/20/24 @ 12:50	Romeo Mack/Pace	12.20.24 1526
Romeo Mack/Pace	12.20.24 1601	Buffalo Service Center	12.20.24 1601
Russell B Bisby	12.20.24 N.S.T.		12/21 130

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)

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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: 2 of 2

Date Rec'd in Lab: 12/21/24

ALPHA Job #: L2475459

Client Information

Client: Roux
Address: 2558 Hamburg Turnpike Ste 300 Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: fdubisz@rouxinc.com

Project Information

Project Name: Riverbend A3 ORC Wells
Project Location: South Buffalo
Project #: 4334.00028000
(Use Project name as Project #)
Project Manager: Rick Dubisz
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
# 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

X Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

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	ALK-T-2320	NYTCL-8260	Total Bottles	Sample Specific Comments
75459-11	A3-ORC-11	12/20/24	10:02	GW	MTF	X	X	4	

Container Type: P / V
Preservative: A / B

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
Mitchell Forbes	12/20/24 @ 12:30	Romeo Mack/Pace	12.20.24 1576
Romeo Mack/Pace	12.20.24 1601	Buffalo Service Center	12.20.24 1601
Russell B Bixby	12-20-24 1707		12/20/24 2346
	12/21/24 0830		12/21 130

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

FIELD FORMS

AREA I
FORMER STEEL PLANT PARCEL

A1-MW-1

A1-MW-2

A1-MW-3

A1-MW-4R

A1-MW-5

A1-MW-6

A1-MW-7 (field parameters only)

A1-MW-8R

A1-MW-9

A1-MW-10

A1-MW-11

NO S. Metals if turb is >50 NTU

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area I | Project No.: 4334.0001B000 | Field Team:

Well No. A1-MW-1			Diameter (inches): 2			Sample Date / Time: 7/25/25 @ 7:08			
Product Depth (fbTOR):			Water Column (ft): 9.30			DTW when sampled: 10.27			
DTW (static) (fbTOR): 10.02			One Well Volume (gal): 1.52			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 19.32			Total Volume Purged (gal): 3.50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:53	0 Initial	0.0	7.97	17.0	*788.4	100	2.54	-114	Turbid/no odor
12:56	1 10.27	1.00	8.32	15.3	659.9	28	2.66	-177	clear/no odor
1:00	2 10.26	1.75	8.20	14.8	634.4	26	2.57	-182	clear/no odor
1:03	3 10.27	2.00	8.19	13.9	624.4	23	2.50	-184	clear/no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1:05	S1 10.27	2.50	8.10	13.7	630.0	22	2.52	-181	clear/no odor
1:12	S2 10.27	3.50	8.14	13.8	624.4	24	1.91	-184	clear/no odor

Well No. A1-MW-2			Diameter (inches): 2			Sample Date / Time: 7/24/24			
Product Depth (fbTOR):			Water Column (ft): 3.67			DTW when sampled:			
DTW (static) (fbTOR): 9.27			One Well Volume (gal): .60			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 12.89			Total Volume Purged (gal): .75			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:53	0 Initial	0.0	6.58	18.6	654.6	40	1.17	-32	Clear/no odor
10:57	1 11.09	.5	6.45	16.4	648.7	55	1.09	-64	Clear/no odor
11:00	2 DRY								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All 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:

GROUNDWATER FIELD FORM

ROUX

Project Name: Comprehensive GWM Program Date: 7/24/24

Location: Riverbend Area I Project No.: 4334.0001B000 Field Team:

Well No. A1-MW-3			Diameter (inches): 2			Sample Date / Time: 7/24/24			
Product Depth (fbTOR):			Water Column (ft): 8.16			DTW when sampled:			
DTW (static) (fbTOR): 17.11			One Well Volume (gal): 1.33			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 25.27			Total Volume Purged (gal): 4.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1:07	0 Initial	0.0	7.58	16.4	1282	241	1.81	-54	turbid / no odor
1:12	1 18.41	0.5	7.24	16.6	1312	211	2.14	-78	turbid / no odor
1:16	2 18.89	1.0	7.15	16.2	1322	218	1.79	-88	turbid / no odor
1:20	3 18.97	2.00	7.11	16.2	1289	217	1.77	-89	turbid / no odor
1:22	4 19.07	2.50	7.04	16.6	1288	219	1.64	-92	turbid / no odor
1:25	5 19.16	3.00	6.99	16.3	1284	306	1.22	-94	turbid / no odor
1:30	6 19.01	4.00	6.99	16.3	1245	298	1.43	-96	turbid / no odor
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. A1-MW-4R			Diameter (inches): 2			Sample Date / Time: 7/25/24			
Product Depth (fbTOR):			Water Column (ft): 12.07			DTW when sampled:			
DTW (static) (fbTOR): 8.86			One Well Volume (gal): 1.96			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
20.93 → Total Depth (fbTOR): [redacted]			Total Volume Purged (gal): 8.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
2:09	0 Initial	0.0	7.54	18.3	978.6	71000	1.27	197	turbid / no odor
2:13	1 9.89	1.00	7.36	16.7	934.7	71000	1.34	167	turbid / no odor
2:16	2 10.02	2.00	7.28	15.9	890.0	780	1.08	170	turbid / no odor
2:20	3 10.09	3.00	7.15	15.6	716.4	466	1.16	168	turbid / no odor
2:24	4 10.10	4.00	7.08	15.3	690.3	297	1.09	1.72	turbid / no odor
2:27	5 10.10	5.00	7.09	15.3	688.7	208	1.03	176	turbid / no odor
2:30	6 10.10	6.00	7.13	15.0	676.6	98	98	180	SL turbid / no odor
2:32	7 10.09	7.00	7.16	14.9	650.5	87	1.16	175	SL turbid / no odor
2:36	8 10.08	8.00	7.09	14.8	668.8	54	1.20 J	173	clear / no odor
	9						[redacted]		
	10								
Sample Information:									
	S1								
	S2								

REMARKS: A1-MW-4R = 4 well volumes, water started to clear up

Note: All 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:

GROUNDWATER FIELD FORM

ROUX

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area I | Project No.: 4334.0001B000 | Field Team: MrF

Well No. A1-MW-5			Diameter (inches): 2			Sample Date / Time: 7/25/24 @ 12:21			
Product Depth (fbTOR):			Water Column (ft): 4.30			DTW when sampled: 8.27			
DTW (static) (fbTOR): 7.79			One Well Volume (gal): .70			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 12.09			Total Volume Purged (gal): 5.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:06	0 Initial	0.0	8.70	19.5	732.1	21	2.54	-27	Clear / no odor
12:09	1 8.04	1.50	8.07	18.2	727.9	19	1.49	2	Clear / no odor
12:11	2 8.12	2.50	7.77	17.2	728.5	17	1.32	-9	Clear / no odor
12:16	3 8.23	3.50	7.75	17.3	729.5	17	1.38	-10	Clear / no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
12:19	S1 8.09	4.00	7.56	17.3	727.1	17	1.95	-29	Clear / no odor
12:23	S2 8.07	5.00	7.56	16.2	727.5	18	1.43	-34	Clear / no odor

Well No. A1-MW-6			Diameter (inches): 2			Sample Date / Time: 7/24/24 @ 1:42			
Product Depth (fbTOR): N/A			Water Column (ft): 7.04			DTW when sampled: TOP pump (22.65)			
DTW (static) (fbTOR): 17.09			One Well Volume (gal): 1.14			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 24.13			Total Volume Purged (gal): 1.50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:38	0 Initial	0.0	7.43	18.7	1391	227	11.01	-54	Turbid / oily smell
12:44	1 21.86	1.00	7.01	17.0	1332	71000	1.78	-99	Turbid / oily smell
12:46	2 TOP	1.25	7.52	17.4	1245	71000	2.01	-136	Turbid / oily smell
12:49	3 DRY								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1:37	S1 18.27	1.50	7.34	17.3	1142	71000	1.32	-111	Turbid / oily smell
1:45	S2 TOP	1.50	7.24	16.9	1143	71000	1.60	-114	Turbid / oily smell

REMARKS: TOP pump = 22.65 (A1-MW-6)

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area I | Project No.: 4334.0001B000 | Field Team:

Well No. A1-MW-8R			Diameter (inches): 2			Sample Date / Time: 7/24/24 @ 11:39 am			
Product Depth (fbTOR):			Water Column (ft): 9.90			DTW when sampled: 14.86			
DTW (static) (fbTOR): 14.70			One Well Volume (gal): 1.61			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 24.60			Total Volume Purged (gal): 4.25			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:18	0 Initial	0.0	7.57	16.8	2293	71000	1.43	-108	Turbid / no odor
11:21	1 14.86	1.25	6.99	17.3	2218	270	1.31	-81	Turbid / no odor
11:24	2 14.86	2.00	6.89	15.4	2175	98	1.65	-63	SL turbid / no odor
11:26	3 14.86	2.50	6.86	14.8	2140	76	2.10	-56	SL turbid / no odor
11:29	4 14.86	2.75	6.71	14.3	2140	55	1.78	-50	SL turbid / no odor
11:33	5 14.84	3.25	6.69	14.5	2122	69	1.88	-48	SL turbid / no odor
11:35	6 14.86	3.75	6.68	14.4	2082	51	1.65	-45	SL turbid / no odor
	7								
	8								
	9								
	10								
Sample Information:									
11:37	S1 14.86	4.00	6.66	14.3	2085	43	1.93	-42	Clear / no odor
11:42	S2 14.84	4.25	6.65	14.5	2050	45	1.88	-41	Clear / no odor

Well No. A1-MW-9			Diameter (inches): 2			Sample Date / Time: 7/25/24			
Product Depth (fbTOR):			Water Column (ft): 7.75			DTW when sampled:			
DTW (static) (fbTOR): 12.32			One Well Volume (gal): 1.26			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 20.07			Total Volume Purged (gal): 4.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
2:42	0 Initial	0.0	7.01	19.6	970.3	52	2.38	78	Clear / no odor
2:45	1 12.63	1.00	7.34	19.2	740.6	38	2.17	64	Clear / no odor
2:49	2 12.64	2.00	7.38	18.4	752.7	24	2.09	62	Clear / no odor
2:53	3 12.63	3.00	7.43	16.8	748.8	18	2.34	60	Clear / no odor
2:56	4 12.63	4.00	7.44	16.3	727.3	17	2.28	63	Clear / no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area I | Project No.: 4334.0001B000 | Field Team:

Well No. A1-MW-10			Diameter (inches): 2			Sample Date / Time: 7/24/24 @ 10:22 am			
Product Depth (fbTOR):			Water Column (ft): 2.65			DTW when sampled: 14.84			
DTW (static) (fbTOR): 14.63			One Well Volume (gal): ~~2.65~~ .43			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 17.28			Total Volume Purged (gal): ~~4.25~~ 4.43			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:03	0 Initial	0.0	7.67	16.9	4062	647	.92	-137	Turbid/no odor
10:06	1 14.75	1.00	7.07	16.9	4221	734	1.04	-94	Turbid/no odor
10:09	2 14.71	1.5	6.90	16.3	4180	775	1.65	-89	Turbid/no odor
10:11	3 14.85	2.00	6.82	16.8	4202	556	1.41	-81	Turbid/no odor
10:15	4 14.82	2.75	6.81	16.0	4209	351	1.34	-68	Turbid/no odor
10:18	5 14.83	3.50	6.80	15.8	4256	141	1.31	-65	Turbid/no odor
	6 ~~14.84~~	~~3.7~~							
	7								
	8								
	9								
	10								
Sample Information:									
10:20	S1 14.84	3.79	6.79	15.6	4229	71	1.52	-64	SL turbid/no odor
10:25	S2 14.84	4.25	6.79	15.4	4209	68	1.28	-70	SL turbid/no odor

Well No. A1-MW-11			Diameter (inches): 2			Sample Date / Time: 7/25/24			
Product Depth (fbTOR):			Water Column (ft): 4.15			DTW when sampled:			
DTW (static) (fbTOR): 14.75			One Well Volume (gal): .68			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 18.90			Total Volume Purged (gal): 3.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1:35	0 Initial	0.0	7.50	16.6	1050	22	2.47	-116	Clear/no odor
1:37	1 15.09	1.00	7.07	16.6	1062	29	2.34	-120	Clear/no odor
1:40	2 15.28	2.00	7.01	16.2	1075	29	2.27	-115	Clear/no odor
1:43	3 15.86	3.00	7.07	16.0	1058	26	1.90	-112	Clear/no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area I | Project No.: 4334.0001B000 | Field Team:

Well No. A1-MW-7			Diameter (inches): 2			Sample Date / Time: 7/25/24			
Product Depth (fbTOR):			Water Column (ft): 5.38			DTW when sampled:			
DTW (static) (fbTOR): 11.52			One Well Volume (gal): .87			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 16.90			Total Volume Purged (gal): 3.25			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
3:00	0 Initial	0.0	6.98	16.3	1008	261	1.54	59	turbid / no odor
3:04	1 12.44	1.00	6.76	16.2	1025	102	1.38	63	turbid / no odor
3:08	2 12.50	2.00	6.79	15.9	1017	92	1.07	64	SL turbid / no odor
3:12	3 12.52	3.00	6.80	15.4	1020	54	1.16	64	clear / no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No.			Diameter (inches): 2			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: low-flow via mini-typhoon pump			
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 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:

AREA II
FORMER COKE PLANT PARCEL

A2-MW-3

A2-MW-4R

A2-MW-5

A2-MW-10R

A2-MW-13

A2-MW-16

A2-MW-17

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program Date: 7/22/24 & 7/23/24

Location: Riverbend Area I Project No.: 4334.0001B000 Field Team: MrF

Well No. A2-MW-3			Diameter (inches): 2			Sample Date / Time: 7/22/24			
Product Depth (fbTOR): —			Water Column (ft): 4.27			DTW when sampled:			
DTW (static) (fbTOR): 7.66			One Well Volume (gal): .69			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 11.93			Total Volume Purged (gal): 7.50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:03	0 Initial	0.0	6.99	16.8	914.3	116	.89	-16	SL Turbid / no odor
12:07	1 7.71	1.00	7.09	15.9	1100	19	1.22	54	Clear / no odor
12:12	2 7.80	2.00	7.23	15.4	1094	12	.92	48	Clear / no odor
12:15	3 7.93	2.50	7.18	15.3	1089	14	.87	53	Clear / no odor
	4 ~~7.60~~								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. A2-MW-4R			Diameter (inches): 2			Sample Date / Time: 7/23/24			
Product Depth (fbTOR):			Water Column (ft): 6.24			DTW when sampled:			
DTW (static) (fbTOR): 7.45			One Well Volume (gal): 1.01			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 13.69			Total Volume Purged (gal): 3.50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:52	0 Initial	0.0	6.65	16.3	1164	36	2.21	42	Clear / no odor
12:56	1 7.48	0.5	7.27	16.9	1099	68	2.99	-71	SL turbid / no odor
12:59	2 4.60	1.5	7.35	15.4	1025	53	3.12	-89	Clear / no odor
1:04	3 7.71	2.5	7.36	15.2	944.6	47	2.34	-74	Clear / no odor
1:07	4 7.48	3.5	7.25	15.1	946.4	48	1.93	-70	Clear / no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program
Date: 7/22/24 + 7/25/24
Location: Riverbend Area II
Project No.: 4334.0001B000
Field Team: MTP

Well No. A2-MW-5			Diameter (inches): 2			Sample Date / Time: 7/25/24			
Product Depth (fbTOR):			Water Column (ft): 6.74			DTW when sampled:			
DTW (static) (fbTOR): 5.39			One Well Volume (gal): 1.09			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 12.13			Total Volume Purged (gal): 4.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
3:25	0 Initial	0.0	7.12	16.9	690.7	104	2.07	78	turbid / no odor
3:29	1 5.84	1.00	7.18	15.8	707.3	58	1.58	15	SL turbid / no odor
3:32	2 5.87	2.00	7.07	15.4	714.2	34	1.47	9	clear / no odor
3:34	3 5.86	3.00	7.29	15.4	722.9	22	1.38	9	clear / no odor
3:37	4 5.86	4.00	7.30	15.2	718.6	18	1.37	8	clear / no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. A2-MW-10R			Diameter (inches): 2			Sample Date / Time: 7/22/24			
Product Depth (fbTOR): —			Water Column (ft): 4.36			DTW when sampled:			
DTW (static) (fbTOR): 10.94			One Well Volume (gal): .71			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 15.30			Total Volume Purged (gal): 2.50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:44	0 Initial	0.0	5.56	21.1	1190	11	1.90	16	clear / no odor
11:47	1 11.50	1.00	6.47	16.7	1141	7	1.60	-4	clear / no odor
11:49	2 11.30	1.75	6.58	15.3	1169	15	1.26	-26	clear / no odor
11:52	3 11.25	2.50	6.58	15.4	1175	15	1.04	-41	clear / no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS:

Note: All 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:

GROUNDWATER FIELD FORM

ROUX

Project Name: Comprehensive GWM Program | Date: 7/22/24

Location: Riverbend Area II | Project No.: 4334.0001B000 | Field Team:

Well No. A2-MW-13			Diameter (inches): 2			Sample Date / Time: 7/22/24			
Product Depth (fbTOR):			Water Column (ft): 1.95			DTW when sampled:			
DTW (static) (fbTOR): 15.68			One Well Volume (gal): .32			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 17.63			Total Volume Purged (gal): 2.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1:13	0 Initial	0.0	7.39	16.4	2391	120	2.05	163	Turbid / no odor
1:16	1 TOP	0.5	7.27	15.8	2387	98	1.48	88	turbid / no odor
1:20	2 TOP	1.00	7.08	15.4	2378	50	1.81	46	clear / no odor
1:23	3 TOP	1.50	6.99	15.4	2385	19	2.11	9	clear / no odor
1:27	4 TOP	2.00	6.98	15.2	2403	14	1.97	-10	clear / no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. A2-MW-16			Diameter (inches): 2			Sample Date / Time: 7/23/24 @ 11:20 am			
Product Depth (fbTOR):			Water Column (ft): 3.28			DTW when sampled: 15.73			
DTW (static) (fbTOR): 14.37			One Well Volume (gal): .53			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 17.65			Total Volume Purged (gal):			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:17	0 Initial	0.0	7.70	16.0	1646	36	1.49	-95	clear / no odor
10:23	1 ~~Bottom/Top~~	1.00	6.35	15.1	1793	24	1.50	-52	clear / no odor
10:28	2 ~~TOP~~ "	1.25							ORP
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
11:16	S1 15.15	1.25	7.08	16.9	1758	88	1.63	-79	clear / no odor
11:23	S2 16.14	1.50	6.25	16.6	1777	37	1.66	-43	clear / no odor

REMARKS: TOP PUMP A2-MW-16 = 16.16

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date: 7/23/24

Location: Riverbend Area II | Project No.: 4334.0001B000 | Field Team: MTF

Well No. A2-MW-17			Diameter (inches): 2			Sample Date / Time: 7/23/24 @ 10:56 am			
Product Depth (fbTOR):			Water Column (ft): 2.82			DTW when sampled: TOP PUMP (15.98)			
DTW (static) (fbTOR): 14.61			One Well Volume (gal): .45			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 17.43			Total Volume Purged (gal): 3.00			Purge Method: low-flow via mini-typhoon pump			

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:41	0 Initial	0.0	6.34	15.4	2598	110	1.38	-55	SL turbid / no odor
10:45	1 TOP	.75	6.87	15.7	2560	20	1.19	-97	clear / no odor
10:48	2 TOP	1.25	7.00	14.5	2541	21	1.09	-109	clear / no odor
10:50	3 TOP	2.00	6.99	14.1	2552	18	1.37	-103	clear / no odor
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
10:54	S1 TOP	2.50	6.99	14.4	2610	12	1.10	-115	clear / no odor
10:54	S2 TOP	2.75	7.02	14.7	2619	14	1.11	-115	clear / no odor

Well No.			Diameter (inches): 2			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: low-flow via mini-typhoon pump			

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: A2-MW-17 TOP PUMP = 15.98

Note: All 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:

AREA III
FORMER WAREHOUSE PARCEL

A3-MW-3

A3-MW-6

A3-MW-7

A3-MW-9

A3-MW-10

NO S. Metals if turb is >50 NTU

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date: 7/24/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team:

Well No. A3-MW-3			Diameter (inches): 2			Sample Date / Time: 7/24/24 @ 3:23			
Product Depth (fbTOR):			Water Column (ft): 1.86			DTW when sampled: 5.89			
DTW (static) (fbTOR): ~~4.48~~ 4.33			One Well Volume (gal): .30			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 6.19			Total Volume Purged (gal): .50			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
3:00	0 Initial	0.0	7.76	21.5	1293	34	2.51	-42	clear / no odor
3:05	1 DRY	0.50							
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
3:20	S1 5.89	.50	7.27	18.3	1497	45	2.29	-76	clear / no odor
3:25	S2 DRY								

Well No. A3-MW-6			Diameter (inches): 2			Sample Date / Time: 7/24/24 @ 3:27 pm			
Product Depth (fbTOR):			Water Column (ft): 3.12			DTW when sampled: 8.37			
DTW (static) (fbTOR): 7.98			One Well Volume (gal): .50			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 11.10			Total Volume Purged (gal): 2.25			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
2:22	0 Initial	0.0	8.29	14.4	570.1	32	2.30	-10	clear / no odor
2:26	1 9.02	0.5	8.01	17.2	480.4	27	1.87	-52	clear / no odor
2:30	2 9.96	1.00	8.17	17.1	478.9	44	1.89	-55	clear / no odor
2:32	3 TOP	1.50	8.18	16.3	471.8	51	1.75	-59	clear / no odor
2:35	4 TOP	2.00	8.18	15.7	481.5	51	1.86	-60	clear / no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
2:38 ~~DRY~~	S1 DRY	2.25							
3:30	S2 8.37	2.25	8.38	15.3	462.4	57	1.55	-29	clear / no odor

REMARKS: A3-MW-6 TOP Pump = 9.98

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team:

Well No. A3-MW-7			Diameter (inches): 2			Sample Date / Time: 7/25/24 @ 11:32 am			
Product Depth (fbTOR):			Water Column (ft): 4.9			DTW when sampled: 6.42			
DTW (static) (fbTOR): 6.25			One Well Volume (gal): .79			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 11.15			Total Volume Purged (gal): 7.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:07	0 Initial	0.0	6.85	18.2	720.2	169	1.12	-91	Turbid / no odor
11:11	1 6.36	1.00	7.73	17.1	564.4	87	.94	-153	turbid / no odor
11:14	2 6.47	1.75	8.39	16.8	531.2	46	1.09	-187	SL turbid / no odor
11:16	3 6.42	2.50	8.94	16.8	490.6	27	.92	-208	clear / sulfur
11:21	4 6.42	3.50	9.28	16.7	469.0	18	.89	-215	clear / sulfur
11:24	5 6.42	4.25	9.25	16.0	431.3	18	.85	-216	clear / sulfur
11:27	6 6.42	5:00	9.26	15.4	422.6	15	.79	-213	clear / sulfur
	7								
	8								
	9								
	10								
Sample Information:									
11:29	S1 6.42	6.00	9.27	16.2	400.6	15	1.42	-227	clear / sulfur
11:35	S2 6.42	6.75	9.25	16.2	393.5	13	1.40	-269	clear / sulfur

Well No. A3-MW-9			Diameter (inches): 2			Sample Date / Time: 7/23/24 @ 2:46			
Product Depth (fbTOR):			Water Column (ft): 3.35			DTW when sampled: TOP OF PUMP (16.72)			
DTW (static) (fbTOR): 15.22			One Well Volume (gal): .54			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 18.57			Total Volume Purged (gal): 2.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
2:31	0 Initial	0.0	6.47	18.5	1233	85	1.55	-26	clear / no odor
2:35	1 16.29	.75	7.46	17.2	1204	32	1.70	-70	clear / no odor
2:39	2 16.65	1.25	7.45	16.5	1234	34	1.72	-72	clear / no odor
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
2:44	S1 TOP	1.75	7.52	14.1	1263	49	1.74	-72	clear / no odor
2:54	S2 TOP	2.00	7.52	14.3	1320	45	1.89	-68	clear / no odor

REMARKS: top of pump = 16.72

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY:

ROUX

GROUNDWATER FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team:

Well No. A3-MW-10			Diameter (inches): 2			Sample Date / Time: 7/23/24 @ 2:03			
Product Depth (fbTOR):			Water Column (ft): 8.73			DTW when sampled: 8.59			
DTW (static) (fbTOR): 6.63			One Well Volume (gal): 1.42			Purpose: ☐ Development ☐ Sample ☑ Purge & Sample			
Total Depth (fbTOR): 15.36			Total Volume Purged (gal): 5.00			Purge Method: low-flow via mini-typhoon pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1:42	0 Initial	0.0	6.53	19.7	4021	48	1.12	-70	SL turbid / no odor
1:47	1 7.43	.75	6.28	17.9	4759	84	1.16	-31	" "
1:50	2 7.72	1.25	6.20	16.4	4182	23	1.15	-62	clear / no odor
1:54	3 8.69	2.25	6.16	16.2	4898	19	.88	-26	clear / no odor
1:56	4 8.59	3.00	5.90	16.2	4945	16	1.00	-19	clear / no odor
1:59	5 8.59	3.50	5.92	15.4	4987	16	.97	-16	clear / no odor
	6								
	7								
	8								
	9								
	10								
Sample Information:									
2:03	S1 8.59	4.25	5.94	15.2	4930	17	1.08	-23	clear / no odor
2:11	S2 8.59	5.00	5.89	15.1	4995	17	.94	-14	clear / no odor

Well No.			Diameter (inches): 2			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: low-flow via mini-typhoon pump			
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 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:

AREA III
FORMER WAREHOUSE PARCEL

A3-ORC-1

A3-ORC-2

A3-ORC-3

A3-ORC-4

A3-ORC-5

A3-ORC-6

A3-ORC-7

A3-ORC-8

A3-ORC-9

A3-ORC-10

A3-ORC-11

No S. Metals If TURB is >50

ORC WELL ANNUAL INSPECTION FORM

Project Name: RiverBend Site - LTGWM | Project No.: 4334.0001B000

Project Location: Area III | Client: FSMC

Preparer's Name: Mitchell Forbes | Date/Time: 7/26/24 @ 7:30

sample location:	A3-ORC-1	A3-ORC-2	A3-ORC-3	A3-ORC-4	A3-ORC-5	A3-ORC-6
purge start date:	7/22/24	7/22/24	7/22/24	7/22/24	7/22/24	7/22/24
purge end date:	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24
volume purged (gallons):	22.00	8.75	24.00	23.00	23.75	21.00

Field groundwater quality measurements:

sample date:	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24
sample time:	12:24	12:38	11:27	12:09	10:45	10:24
DTW (fbTOR)	6.00	12.34	6.14	5.70	6.35	6.21
pH (units)	12.51	7.50	4.33	4.76	3.14	3.25
Temp. (deg F)	19.4	18.1	22.0	20.2	18.8	19.4
SC (uS)	1527	5500	6079	4266	4846	8816
Turbidity (NTU)	71	305	167	337	181	344
DO (ppm)	.21	3.47	2.71	2.71	2.45	2.13
ORP (mV)	-267	-129	21	-15	-1	64

Well Integrity Observations:

	A3-ORC-1	A3-ORC-2	A3-ORC-3	A3-ORC-4	A3-ORC-5	A3-ORC-6
Cement seal	Good	Good	Good	Good	Good	Good
Pro-Casing condition	↓	↓	↓	↓	↓	↓
Lock condition						
J-plug condition						

Refer to Site Plan for well locations

ORC Sock's:

Have any Socks been replaced? ☐ yes ☒ no

If replaced, provide date and explanation:

Are socks fully submerged in well screens. ☒ yes ☐ no

If no, explain.

Are all ORC wells being sampled and maintained according to the site management plan ☒ yes ☐ no

If no, explain.

Initial: MTF Date: 7/26/24

ORC WELL ANNUAL INSPECTION FORM

Project Name: RiverBend Site - LTGWM | Project No.: 4334.0001B000

Project Location: Area III | Client: FSMC

Preparer's Name: Mikey Fortes | Date/Time: 7/26/24 @ 7:30

sample location:	A3-ORC-7	A3-ORC-8	A3-ORC-9	A3-ORC-10	A3-ORC-11
purge start date:	7/22/24	7/22/24	7/22/24	7/22/24	7/22/24
purge end date:	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24
volume purged (gallons):	11.50	16.50	70.00	26.50	25.00

Field groundwater quality measurements:

sample date:	7/26/24	7/26/24	7/26/24	7/26/24	7/26/24
sample time:	9:14	10:10	9:48	9:29	8:53
DTW (fbTOR)	7.19	7.08	4.79	6.89	~~5.43~~ 7.22
pH (units)	5.29	4.19	1.63	5.50	~~12.49~~ 5.43
Temp. (deg F)	17.8	20.6	19.1	17.4	~~5106~~ 17.9
SC (uS)	2838	9012	7052	5340	5106
Turbidity (NTU)	240	148	179	617	181
DO (ppm)	3.03	1.46	1.71	3.50	3.17
ORP (mV)	-25	24	134	-61	-108

Well Integrity Observations:

Cement seal	Good	Good	Good	Good	Good	Good
Pro-Casing condition	↓	↓	↓	↓	↓	↓
Lock condition						
J-plug condition						

Refer to Site Plan for well locations

ORC Sock's:

Have any Socks been replaced? ☐ yes ☒ no

If no, explain.

Are socks fully submerged in well screens. ☒ yes ☐ no

If no explain why.

Are all ORC wells, being sampled and maintained according to the site management plan ☒ yes ☐ no

If no, explain.

Initial: MTF Date: 7/26/24

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH

Well No. A3-ORC-1	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 12:24
Product Depth (fbTOR):	Water Column (ft): 8.48	DTW when sampled: 6.00
DTW (static) (fbTOR): 5.60	Casing Volume: 5.54	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.08	Purge Volume (gal): 22.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	1030	0	5.60	6.00	y	
7/23	9:08	1	5.78	6.00	y	
7/24	8:57	2	5.83	5.00	y	
7/25	9:23	3	5.95	5.00	y	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:22	S1	6.00	22.00	12.51	19.4	1527	71	.21	-267	Cl turbid/no odor
12:28	S2	6.49	22.00	13.69	19.8	1597	43	1.81	-287	Sl turbid/no odor

Well No. A3-ORC-2	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 12:38 pm
Product Depth (fbTOR):	Water Column (ft): 9.68	DTW when sampled: 12.34
DTW (static) (fbTOR): 4.75	Casing Volume: 6.32	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.43	Purge Volume (gal): [illegible]	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	1025	0	4.75	6.00	y	
7/23	9:29	1	12.61	1.00	y	
7/24	9:01	2	12.49	.75	y	
7/25	9:23	3	11:45	1.00	y	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:35	S1	12.34	[illegible]	7.50	18.1	5500	305	3.47	-129	Turbid/no odor
12:40	S2	DRY	8.75							

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:

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH

Well No. A3-ORC-3	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 11:27 am
Product Depth (fbTOR):	Water Column (ft): 9.11	DTW when sampled: 6.14
DTW (static) (fbTOR): 5.27	Casing Volume: 5.45	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.38	Purge Volume (gal): 24.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	1005	0	5.27	6.00	y	
7/23	9:20	1	5.44	6.00	Y	
7/24	8:38	2	5.94	7.50	Y	
7/25	9:14	3	6.10	4.50	Y	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:24	S1	6.14	24.00	4.33	22.0	6079	167	2.71	21	SL turbid / no odor
11:32	S2	6.16	24.00	4.27	21.0	6239	159	3.44	11	SL turbid / no odor

Well No. A3-ORC-4	Diameter (inches): 4"	Sample Date / Time: 7/26/24 @ 12:09 pm
Product Depth (fbTOR):	Water Column (ft): 9.07	DTW when sampled: 5.70
DTW (static) (fbTOR): 5.31	Casing Volume: 5.92	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.38	Purge Volume (gal): 23.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	1025	0	5.31	6.00	y	
7/23	9:00	1	5.88	6.00	Y	
7/24	8:52	2	6.12	5.00	Y	
7/25	9:17	3	5.92	6.00	Y	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:06	S1	5.70	23.00	4.76	20.2	4266	337	2.71	-15	Turbid / no odor
12:12	S2	5.93	23.00	5.09	14.4	4379	266	7.84	-71	Turbid / no odor

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:

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program Date:

Location: Riverbend Area III Project No.: 4334.0001B000 Field Team: CEH

Well No. A3-ORC-5			Diameter (inches): 4		Sample Date / Time: 7/26/24 @ 10:45
Product Depth (fbTOR):			Water Column (ft): 8.05		DTW when sampled: 6.35
DTW (static) (fbTOR): 5.98			Casing Volume: 5.26		Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.03			Purge Volume (gal): 23.79		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	1000	0 5.98	7.00	Y	
7/23	8:52	1 6.98	6.25	Y	
7/24	8:07	2 6.20	5.00	Y	
7/25	9:05	3 6.19	5.50	Y	
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:42	S1 6.35	23.75	3.14	18.8	4846	181	2.45	-1	Turbid / no odor
10:49	S2 6.42	23.75	3.57	18.6	4834	127	2.61	-72	" "

Well No. A3-ORC-6			Diameter (inches): 4"		Sample Date / Time: 7/26/24 @ 10:24
Product Depth (fbTOR):			Water Column (ft): 8.68		DTW when sampled: 6.21
DTW (static) (fbTOR): 5.68			Casing Volume: 5.67		Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.36			Purge Volume (gal): 21.00		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0940	0 5.68	6.00	Y	
7/23	8:38	1 5.98	5.00	Y	
7/24	8:21	2 6.03	5.00	Y	
7/25	8:58	3 6.11	5.00	Y	
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:23	S1 6.21	21.00	3.25	19.4	8816	344	2.13	64	SL turbid / no odor
10:36	S2 6.24	21.00	2.64	19.3	8897	326	2.35	144	SL turbid / no odor

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:

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH

Well No. A3-ORC-7	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 9:14 am
Product Depth (fbTOR):	Water Column (ft): 7.51	DTW when sampled: 7.19
DTW (static) (fbTOR): 6.85	Casing Volume: 4.9	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.36	Purge Volume (gal): 11.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0920	0 6.85	5.00	Y	
7/23	8:07	1 11.14	2.50	Y	
7/24	8:04	2 10.61	2.00	Y	
7/25	8:50	3 10.45	2.00	Y	
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:12	S1 7.19	11.50	5.29	17.8	2838	240	3.03	-25	SL turbid / no odor
9:17	S2 8.19	11.50	5.10	19.2	2917	214	4.80	-15	turbid / no odor

Well No. A3-ORC-8	Diameter (inches): 4"	Sample Date / Time: 7/26/24 @ 10:10 am
Product Depth (fbTOR):	Water Column (ft): 8.09	DTW when sampled: 7.08
DTW (static) (fbTOR): 6.54	Casing Volume: 5.28	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.63	Purge Volume (gal): 16.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0935	0 6.54	5.50	Y	
7/23	8:17	1 6.76	4.50	Y	
7/24	8:21	2 6.71	3.50	Y	
7/25	8:40	3 7.11	3.00	Y	
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:07	S1 7.08	16.50	4.19	20.6	9012	148	1.46	24	SL turbid / Soil
10:16	S2 7.16	16.50	4.81	21.2	9106	165	2.23	-31	SL turbid / Soil

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:

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date:

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH

Well No. A3-ORC-9	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 9:48
Product Depth (fbTOR):	Water Column (ft): 10.08	DTW when sampled: 4.79
DTW (static) (fbTOR): 3.95	Casing Volume: 6.58	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.03	Purge Volume (gal): 70.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0945	0	3.95	20.0	N	
7/23	8:34	1	4.10	20.0	N	
7/24	8:38	2	4.41	20.00	N	
7/25	8:54	3	4.17	20.00	N	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:46	S1	4.79	70.00	1.63	19.1	7052	175	1.71	134	SL turbid / silty sheen
9:52	S2	4.54	70.00	1.38	18.9	7075	94	2.39	149	" "

Well No. A3-ORC-10	Diameter (inches): 4	Sample Date / Time: 7/26/24 @ 9:29am
Product Depth (fbTOR):	Water Column (ft): 8.08	DTW when sampled: 6.89
DTW (static) (fbTOR): 6.47	Casing Volume: 5.28	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.55	Purge Volume (gal): 26.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0925	0	6.47	6.00	Y	
7/23	7:57	1	6.65	7.00	Y	
7/24	8:13	2	7.20	6.50	Y	
7/25	8:43	3	6.73	7.00	Y	
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:25	S1	6.89	26.50	5.40	17.4	5340	~~2617~~	3.50	-61	turbid / no odor
9:34	S2	7.69	26.50	5.55	16.2	5456	890	3.20	-91	turbid / no odor

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:

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date: 7/26/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH

Well No. A3-ORC-11			Diameter (inches): 4		Sample Date / Time: 7/26/24 @ 8:53 am
Product Depth (fbTOR):			Water Column (ft): 8.34		DTW when sampled: 7.22
DTW (static) (fbTOR): 6.23			Casing Volume: 5.45		Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.57			Purge Volume (gal): 25.00		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
7/22	0930	0 6.23	6.00	Y	
7/23	7:48	1 6.42	7.00	Y	
7/24	7:55	2 6.32	6.00	Y	
7/25	8:30	3 6.45	6.00	N	
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
8:41	S1 6.27	25	5.43	17.9	5106	181	3.17	-108	Turbid / no odor
8:57	S2 6.28	25	5.45	18.8	5097	211	3.28	-123	Turbid / no odor

Well No.			Diameter (inches):		Sample Date / Time:
Product Depth (fbTOR):			Water Column (ft):		DTW when sampled:
DTW (static) (fbTOR):			Casing Volume:		Purpose: ☐ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR):			Purge Volume (gal):		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
		0			
		1			
		2			
		3			
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	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:

AREA III
FORMER WAREHOUSE PARCEL

A3-ORC-1

A3-ORC-2

A3-ORC-3

A3-ORC-4

A3-ORC-5

A3-ORC-6

A3-ORC-7

A3-ORC-8

A3-ORC-9

A3-ORC-10

A3-ORC-11

No S. Metals If TURB is >50

ORC WELL ANNUAL INSPECTION FORM

Project Name: RiverBend Site - LTGWM | Project No.: 4334.0001B000

Project Location: Area III | Client: FSMC

Preparer's Name: Mitchell Forbes | Date/Time: 12/20/24 @ 2:00

sample location:	A3-ORC-1	A3-ORC-2	A3-ORC-3	A3-ORC-4	A3-ORC-5	A3-ORC-6
purge start date:	12/18/24	12/18/24	12/18/24	12/18/24	12/18/24	12/18/24
purge end date:	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24
volume purged (gallons):	17.50	13.50	15.50	16.00	19.50	15.50

Field groundwater quality measurements:

sample date:	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24
sample time:	12:20	12:26	11:49	12:04	11:35	11:23
DTW (fbTOR)	6.42	13.84	7.95	6.98	6.50 ~~5.97~~	7.25
pH (units)	12.14	DRY	3.07	5.18	5.97 ~~9.2~~	4.84
Temp. (deg F)	8.2	↑	8.4	7.7	9.2 ~~14.62~~	8.4
SC (uS)	1824	↓	6293	3106	1952 ~~183~~	9516
Turbidity (NTU)	-43.4		446	137	103 ~~2.74~~	266
DO (ppm)	1.05		4.81	4.85	2.74	3.87
ORP (mV)	-228		206	118	22	90

Well Integrity Observations:

Cement seal	Ok	ok	Ok	Ok	Ok	Ok
Pro-Casing condition	Ok	Ok	Ok	Ok	Ok	Ok
Lock condition	Ok	Ok	Ok	Ok	Ok	Ok
J-plug condition	Ok	Ok	Ok	Ok	Ok	Ok

Refer to Site Plan for well locations

ORC Sock's:

Have any Socks been replaced? ☐ yes ☒ no

If replaced, provide date and explanation:

Are socks fully submerged in well screens. ☐ yes ☐ no

If no, explain.

Are all ORC wells being sampled and maintained according to the site management plan ☐ yes ☐ no

If no, explain.

Initial: ME Date: 12/20/24

ORC WELL ANNUAL INSPECTION FORM

Project Name: RiverBend Site - LTGWM | Project No.: 4334.0001B000

Project Location: Area III | Client: FSMC

Preparer's Name: Mitchell Forbes | Date/Time: 12/20/24 @ 2:00

sample location:	A3-ORC-7	A3-ORC-8	A3-ORC-9	A3-ORC-10	A3-ORC-11
purge start date:	12/18/24	12/18/24	12/18/24	12/18/24	12/18/24
purge end date:	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24
volume purged (gallons):	15.00	12.50	60.00	20.00	18.00

Field groundwater quality measurements:

sample date:	12/20/24	12/20/24	12/20/24	12/20/24	12/20/24
sample time:	10:33	11:13	10:52	10:22	10:02
DTW (fbTOR)	9.39	7.84	4.10	7.35	6.72
pH (units)	6.13	5.64	4.23	6.45	5.99
Temp. (deg F)	6.5	8.4	7.6	8.0	7.2
SC (uS)	5217	1832	6674	3343	2796
Turbidity (NTU)	337	113	117	438	126
DO (ppm)	2.74	3.61	3.39	7.06	3.96
ORP (mV)	-13	53	98	6	40

Well Integrity Observations:

Cement seal	ok	ok	ok	ok	ok
Pro-Casing condition	↓	↓	↓	↓	↓
Lock condition					
J-plug condition					

Refer to Site Plan for well locations

ORC Sock's:

Have any Socks been replaced? ☐ yes ☑ no

If no, explain.

Are socks fully submerged in well screens. ☑ yes ☐ no

If no explain why.

Are all ORC wells being sampled and maintained according to the site management plan ☑ yes ☐ no

If no, explain.

Initial: MP Date: 12/20/24

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program
Location: Riverbend Area III
Project No.: 4334.0001B000
Date: 12/18/24 → 12/20/24
Field Team: ~~GEH~~ MRP

Well No. A3-ORC-1		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 12:20
Product Depth (fbTOR): ———		Water Column (ft): 9.18	DTW when sampled: 6.42
DTW (static) (fbTOR): 4.90		Casing Volume: 5.99	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.08		Purge Volume (gal): 17.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	2:35	0	4.90	6.00	Y	Replaced Bailer
12/19/24	12:11	1	5.21	6.50	Y	
12/20/24	8:15	2	5.34	6.00	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:17	S1	6.42	17.50	12.14	8.2	1824	43.4	1.05	-228	Clear/no odor
12:22	S2	6.42	17.50	12.43	8.0	1806	43.0	.93	-232	" "

Well No. A3-ORC-2		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 12:26
Product Depth (fbTOR): ———		Water Column (ft): 9.23	DTW when sampled: 13.84
DTW (static) (fbTOR): 5.20		Casing Volume: 6.02	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.43		Purge Volume (gal): 13.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	2:40	0	5.20	6.00	Y	Replaced Bailer
12/19/24	12:15	1	6.67	5.50	Y	
12/20/24	8:27	2	7.84	3.00	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
12:26	S1	DRY	13.50							
12:28	S2	DRY	13.50							

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: Mitchell Forbes

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date: 12/18/24 - 12/20/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: ~~GEH~~ MTF

Well No. A3-ORC-3			Diameter (inches): 4		Sample Date / Time: 12/20/24 @ 11:49
Product Depth (fbTOR): —			Water Column (ft): 8.53		DTW when sampled: 7.95
DTW (static) (fbTOR): 5.89			Casing Volume: 5.57		Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.38			Purge Volume (gal): 16.50		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	2:47	0 5.85	5.50	Y	Replaced Bailer
12/19/24	11:56	1 6.00	5.00	Y	
12/20/24	8:00	2 6.00	5.00	Y	
		3			
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:47 ~~12/20/24~~	S1 7.95	15.50	3.07	8.4	6293	446	4.8	206	turbid / no odor
11:50 →	S2 7.95	15.50	2.90	8.3	6307	243	4.71	239	" "

Well No. A3-ORC-4			Diameter (inches): 4		Sample Date / Time: 12/20/24 @ 12:04
Product Depth (fbTOR): —			Water Column (ft): 8.54		DTW when sampled: 6.98
DTW (static) (fbTOR): 5.84			Casing Volume: 5.57		Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.38			Purge Volume (gal): 16.00		Purge Method: bailer: 10 well volumes or 4 days to dryness
Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	2:25	0 5.84	6.00	Y	Replaced Bailer
12/19/24	12:04	1 6.07	5.00	Y	
12/20/24	8:07	2 6.09	5.00	Y	
		3			
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:58	S1 6.98	16.00	5.18	7.7	3106	137	4.85	118	sl turbid / no odor
12:05	S2 6.98	16.00	5.39	7.6	3109	155		84	" "

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: Mitchell Forbes

ROUX

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date: 12/18/24 → 12/20/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: CEH — MTK

Well No. A3-ORC-5		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 11:35
Product Depth (fbTOR): —		Water Column (ft): 9.83	DTW when sampled: 6.50
DTW (static) (fbTOR): 4.20		Casing Volume: 6.42	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.03		Purge Volume (gal): 19.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/16/24	2:30	0	4.70	5.50	Y	Replaced Bailer
12/19/24	11:48	1	5.34	7.00	Y	
12/20/24	7:52	2	5.32	7.00	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:32	S1	6.50	19.50	5.97	9.2	1952	103	2.74	22	Clear / no odor
11:36	S2	6.50	19.50	6.06	9.1	1951	98.6	2.54	1	Clear / no odor

Well No. A3-ORC-6		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 11:23
Product Depth (fbTOR): —		Water Column (ft): 8.19	DTW when sampled: 7.25
DTW (static) (fbTOR): 6.17		Casing Volume: 5.35	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.36		Purge Volume (gal): 15.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	2:19	0	6.17	4.50	Y	Replaced Bailer
12/19/24	11:37	1	6.35	5.50	Y	
12/20/24	7:47	2	6.20	5.50	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:21	S1	7.29	15.50	4.84	8.4	9516	266	3.87	90	tan, silt / no odor
11:24	S2	7.29	15.50	4.57	8.4	9506	262	3.34	100	" "

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: Mikell Forbes

ROUX

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date: 12/18/24 & 12/20/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: ~~CEH~~ MJP

Well No. A3-ORC-7	Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 10:33
Product Depth (fbTOR): —	Water Column (ft): 7.38	DTW when sampled: 9.39
DTW (static) (fbTOR): 6.98	Casing Volume: 4.82	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.36	Purge Volume (gal): 15.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	1:39	0 6.98	5.5	Y	Replaced Bailer
12/19/24	10:49	1 7.04	4.75	Y	
12/20/24	7:27	2 7.14	5.00	Y	
		3			
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:32	S1 9.39	15.00	6.29	6.5	5216	317	3.46	-13	turbid/no odor
10:35	S2 9.39	15.00	6.13	6.5	5217	337	2.74	-13	turbid/no odor

Well No. A3-ORC-8	Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 11:13
Product Depth (fbTOR): —	Water Column (ft): 8.2	DTW when sampled: 7.84
DTW (static) (fbTOR): 6.43	Casing Volume: 5.35	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.63	Purge Volume (gal): 12.50	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time	Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	1:57	0 6.43	4.50	Y	Replaced Bailer
12/19/24	11:17	1 6.87	4.00	Y	
12/20/24	7:35	2 6.89	4.00	Y	
		3			
		4			
		5			

Sample Information:

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
11:12	S1 7.84	12.50	5.64	8.4	1832	113	3.61	53	clear/no odor
11:14	S2 7.84	12.50	5.90	8.3	1818	113	3.37	28	" "

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: Mitchell Forbes

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program
Location: Riverbend Area III
Project No.: 4334.0001B000
Date: 12/18/24 → 12/20/24
Field Team: ~~GEH~~ MTF

Well No. A3-ORC-9		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 10:52
Product Depth (fbTOR): —		Water Column (ft): 10.85	DTW when sampled: 4.10
DTW (static) (fbTOR): 3.68		Casing Volume: 6.75	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.03		Purge Volume (gal): 60.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/19/24	2:12	0	3.68	20.00	N	Replaced Bailer
12/19/24	11:12	1	3.85	20.00	N	
12/20/24	7:42	2	3.89	20.00	N	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:51	S1	4.10	60.00	4.25	7.6	6674	117	3.39	98	turbid/no odor
10:53	S2	4.10	60.00	4.03	7.4	6672	109	3.18	101	" "

Well No. A3-ORC-10		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 10:22
Product Depth (fbTOR): —		Water Column (ft): 8.18	DTW when sampled: 7.35
DTW (static) (fbTOR): 6.37		Casing Volume: 5.34	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.55		Purge Volume (gal): 20.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	1:51	0	6.37	6.00	Y	Replaced Bailer
12/19/24	10:40	1	6.40	7.00	Y	
12/20/24	7:21	2	6.42	7.00	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:20	S1	7.35	20.00	6.45	8.0	3343	438	7.06	6	turbid/no odor
10:24	S2	7.35	20.00	6.47	7.4	3363	444	6.89	-5	" "

REMARKS:

ote: 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: Mitchell Forbes

ORC WELL PURGE & SAMPLE FIELD FORM

Project Name: Comprehensive GWM Program | Date: 12/18/24 → 12/20/24

Location: Riverbend Area III | Project No.: 4334.0001B000 | Field Team: ~~CEH~~ MTZ

Well No. A3-ORC-11		Diameter (inches): 4	Sample Date / Time: 12/20/24 @ 10:02
Product Depth (fbTOR): —		Water Column (ft): 9.14	DTW when sampled: 6.72
DTW (static) (fbTOR): 5.43		Casing Volume: 5.96	Purpose: ☐ Development ☐ Sample ☑ Purge & Sample
Total Depth (fbTOR): 14.57		Purge Volume (gal): 18.00	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
12/18/24	1:45	0	5.43	5.50	Y	Replaced Bailer
12/19/24	10:31	1	5.92	6.00	Y	
12/20/24	7:15	2	5.75	6.50	Y	
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
~~12/20/24~~ 9:99	S1	6.72	18.00	5.99	7.2	2796	126	3.96	40	Turbid / no odor
~~12/20/24~~ 10:04	S2	6.72	18.00	6.20	6.9	2812	126	3.60	25	" "

Well No.		Diameter (inches):	Sample Date / Time:
Product Depth (fbTOR):		Water Column (ft):	DTW when sampled:
DTW (static) (fbTOR):		Casing Volume:	Purpose: ☐ Development ☐ Sample ☐ Purge & Sample
Total Depth (fbTOR):		Purge Volume (gal):	Purge Method: bailer: 10 well volumes or 4 days to dryness

Date	Time		Water Level (fbTOR)	Acc. Volume (gallons)	Purged to Dryness (y or n)	Comments/Observations
		0				
		1				
		2				
		3				
		4				
		5				

Sample Information:

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	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:

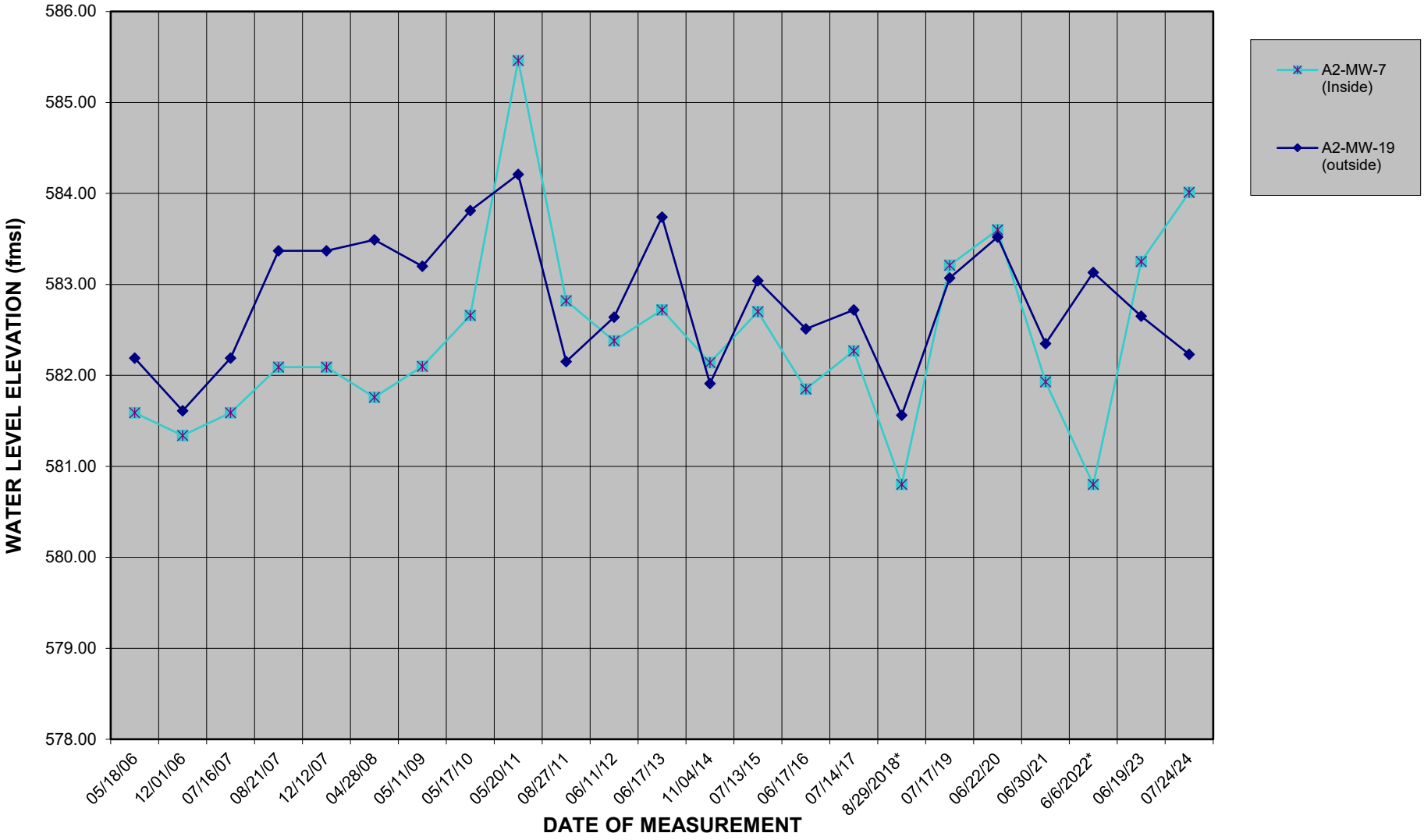
APPENDIX E

A2-MW-19 & A2-MW-7 GROUNDWATER GRADIENT CHART

APPENDIX E

HISTORICAL GROUNDWATER LEVEL ELEVATIONS
AREA II SLURRY WALL CHECK NO. 2
2006 TO PRESENT

Steelfields (aka Riverbend)
Buffalo, New York



APPENDIX C

AREA II

ANNUAL GWPTS REPORT
&
BSA SEMI- ANNUAL COMPLIANCE MONITORING REPORTS

ANNUAL PROGRESS REPORT FOR THE
OPERATION, MAINTENANCE, AND MONITORING SERVICES
Fort Schuyler Management Corporation
(Site No. V00619-9)
312 Abby St,
Buffalo NY, 14210

PROGRESS REPORT No. 25
REPORTING PERIOD ENDING DECEMBER 31, 2024

Project Description

This Annual Progress Report has been prepared for the Fort Schuyler Management Corporation (FSMC) Groundwater Pre-Treatment System (GWPTS) located at 312 Abby Street, Buffalo, NY in accordance with the requirements of the Site Management Plan and at the request of the NYSDEC. In accordance with our NYSDEC-approved Modification Request (dated April 25, 2011), this Progress Report covers one-year operation and maintenance of the GWPTS from January 1, 2024, through December 31, 2024.

1.0 Treatment Statistics

- Approximately 10,378 gallons of groundwater were collected and treated over the current monitoring period averaging 28 gallons per day.
- The Pre-Treatment System has been offline since September 25, 2023, due to a power failure which contributed to damage of control modules within the electrical panel box. The pumps at the lift stations are operated manually weekly to exercise the pumps and treatment system components. A Request for Proposal (RFP) was prepared by FSMC and sent to bidders to provide electrical control upgrades to the Pre-Treatment System.
- No tar was generated from the oil/water separator. Based on this monthly quantity (less than 220 pounds per calendar month) a Hazardous Waste Report is not required because FSMC's RiverBend Site is considered a Very Small Quantity Generator (VSQG) in accordance with Part 371.1(f).

2.0 2024 System Maintenance & Site Activities

- Regular Maintenance Items
  - 2 bag filter changes as necessary.
  - Carbon filtration vessel back-washing as necessary.
- January 11, 2024 - Flow meter was calibrated by Cold Spring Environmental and totalized set to zero.
- February 2024 - FSMC prepares RFP for electrical control system upgrades to the GWPTS. A site visit to the GWPTS with potential bidders was performed February 16, 2024.

- March 2024 – The Abby Street drain was taken out of service in July 2023 due to water line construction being performed in the vicinity of the drain. The waterline work was performed by City of Buffalo's designated contractor. Drain cleanouts which were damaged during the waterline construction were repaired/replaced and the drain was returned to service in March 2024.

- May 1, 2024 – Annual certification/inspection associated with the Periodic Review Report (PRR) in accordance with DER-10 was performed by Roux.

- May 2024 - Blackrock Controls LLC is awarded a contract for electrical control upgrades to GWPTS.

- May through October 2024 – Mowed grass area and weed trimmed fence line around the treatment building, as necessary.
- July 2024 – ORC monitoring in Area III was performed.

- July 2024 – Long-Term Groundwater Monitoring was performed in Areas I, II, and III.
- October 2024 – Mowed final cover and weed trimmed penetrations associated with the Area II Containment Cell.
- December 2024 – ORC monitoring in Area III was performed.
- December 2024 – Black Controls designing/ordering components for GWPTS electrical control upgrades, with installation scheduled for Winter/Spring of 2025.
- Semi-annual GWPTS sewer effluent sample collected January 2025.

3.0 Attachments/Logs

- Attachment 1: Graph of monitored flows through treatment system for 2024
- Attachment 2: Maintenance Logs for 2024

ATTACHMENT 1

MONITORED FLOWS VS. TIME

ATTACHMENT 1

MONITORED FLOWS v. TIME
2024

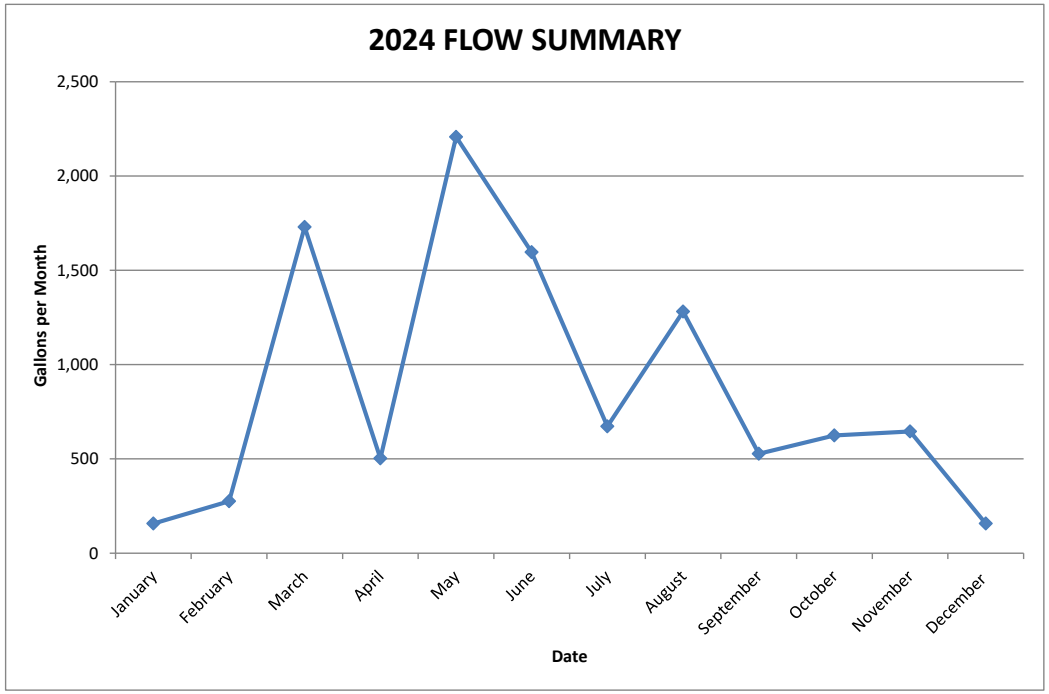
Groundwater Pre-Treatment System (GWPTS)
Fort Schyuler Management Corporation
(Site No. V00619-9)
Buffalo, New York

2024

Month	GPMo
January	157
February	276
March	1,730
April	503
May	2,208
June	1,596
July	672
August	1,281
September	527
October	625
November	646
December	157

Total	10,378
Min.	157
Max.	2,208
Ave.	994

Since August 2008:
Total 145,025,857

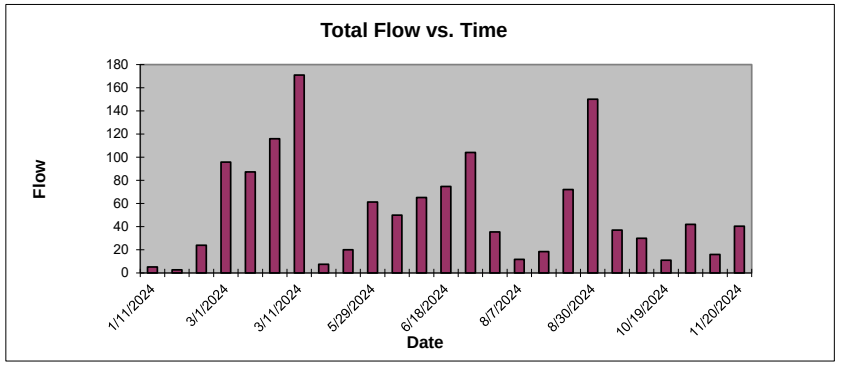


ATTACHMENT 1

MONITORED FLOWS v. TIME
2024

Groundwater Pre-Treatment System (GWPTS)
Fort Schyuler Management Corporation
Buffalo, New York

Date	Total Flow	Daily Avg
1/11/2024	157	5
2/19/2024	265	3
2/26/2024	433	24
3/1/2024	816	96
3/5/2024	1,165	87
3/8/2024	1,513	116
3/11/2024	2,028	171
3/29/2024	2,163	8
4/23/2024	2,666	20
5/29/2024	4,874	61
6/3/2024	5,124	50
6/12/2024	5,710	65
6/18/2024	6,158	75
6/21/2024	6,470	104
7/10/2024	7,142	35
8/7/2024	7,469	12
8/23/2024	7,765	19
8/28/2024	8,129	72
8/30/2024	8,423	150
9/6/2024	8,650	37
9/16/2024	8,950	30
10/19/2024	9,320	11
10/26/2024	9,575	42
11/4/2024	9,874	16
11/20/2024	10,221	40
Total Yearly Flow:	10,378	gallons



Notes:
flow meter calibrated and reset to zero on 01/11/24

ATTACHMENT 2

FIELD LOG

ROUX

Fort Schuyler Ma[illegible]gement Corporation
RiverBend Site - Water Treatment Plant

Maintenance Log

* 2/16/24 - will fill up Influent tank manually with lift stations + run system by hand *

Dielectric test set up 1/24/24

Date	Employee Initials	Flow Meter Reading	Lead Tank		Back Flush		Bag Filter Change	Bag Pressure (PSI)		Decant Oil Separator	Tar in Drum (inches)	Instantaneous Flow (GPM)		Abby St Drain check/clean	Sump Flow Check	PS Flow Check/pump greased *
			Tank 1	Tank 2	Tank 1	Tank 2	Both Bags	Before	After			Before	After			
7-7-23	CWE	4257909	✓		✓	✓	✓	23.6	22.7	✓	20	52	68	✓	✓	✓
7-10-23	BME	4325976	✓		✓		✓	23.7	22.9	✓	-	55	68	-	✓	-
7-14-23	BME	4390953	✓		✓		✓	27.1	23.5	✓	-	10	72	-	✓	-
7-18-23	BME	4483560	✓		✓	✓	✓	25.6	23.1	✓	-	40	71	-	✓	-
7-20-23	BME	4533094	✓		✓	✓	✓	22.7	23.4	✓	20	62	72	✓	✓	✓
7-24-23	BME	4609055	✓		✓	✓	✓	27.7	22.4	✓	-	10	68	-	✓	-
7-28-23	TMS	4687446	✓		✓	✓	✓	25.9	23.3	✓	-	10	70	-	✓	-
7-31-23	BME	4751456	✓		✓	✓	✓	25.5	23.2	✓	-	40	74	-	✓	-
8-4-23	TMS	4837102	✓		✓	✓	✓	25.7	23.0	✓	20	13	69	✓	✓	✓
8-7-23	TMS	4901100	✓		✓	✓	✓	27.1	23.2	✓	-	10	73	-	✓	-
8-11-23	TMS	4978001	✓		✓	✓	✓	24.7	23.2	✓	-	15	71	-	✓	-
8-14-23	MTF	5033079	✓		✓		✓	23.8	24.0	✓	-	61.23	62.79	-	✓	-
8-18-23	TMS	5105203	✓		✓	✓	✓	23.8	22.5	✓	20	146	71	✓	✓	✓
8-21-23	TMS	5160069	✓		✓	✓	✓	22.6	22.4	✓	-	68	74	-	✓	-
8-25-23	MTF	5228206	✓		✓		✓	22.3	21.7	✓	-	60.25	70.12	-	✓	-
8-28-23	RLO	5278167	✓		✓		✓	-	23.6	✓	-	-	70.10	-	✓	-
9/1/23	RLO	[illegible]	✓		✓		✓		21.4	✓	20	-	69.60		✓	
~~9/5/23~~	~~MTF~~	5339299						~~22.0~~			-	~~67.79~~		-	✓	-
9/5/23	MTF	5399301	✓		✓	✓	✓	22.0	22.0	✓	-	67.79	75.15	-	✓	-
9/8/23	MTF	5448169	✓		✓	✓	✓	23.1	21.9	✓	-	69.49	75.35	-	✓	-
9/11/23	MTF	5509439	✓		✓	✓	✓	22.7	21.7	✓	20	66.37	73.31	✓	✓	✓
9/15/23	MTF	5582093	✓		✓	✓	✓	22.3	22.0	✓	-	69.91	74.54	-	✓	-
9/18/23	MTF	5629777	✓		✓	✓	✓	22.5	21.6	✓	-	69.19	72.57	-	✓	-
9/22/23	MTF	5691533	✓		✓	✓	✓	22.1	21.8	✓	-	67.38	76.35	-	✓	-
~~9/25/23~~	~~MTF~~	~~5733~~						~~22.4~~				~~72.15~~				
9/25/23	MTF	5734944	✓		✓	✓	✓	22.4	21.4	✓	20	72.15	78.15	-	✓	-
12/12/23	MTF	5771034	✓													
1/11/24	MTF	5771191	✓													
2/19/24	MTF	265	✓		NO	NO	2/16/24	21.8	21.8	✓	20	69.97	~~NO~~ 68.97	✓	✓	
2/26/24	MTF	433	✓		Yes	NO	✓	21.1	21.4	✓	-	48.11	51.19	-	✓	-
3/1/24	MTF	816	✓		✓	NO	✓	20.4	21.4	✓	-	40.31	60.49 → 68.30		✓	-
3/5/24	MTF	1165	✓		✓	NO	X	21.3	21.6	✓	-	43.46	58.3 → 68.54		✓	-
3/8/24	MTF	1513	✓		✓	✓	✓	22.7	21.7			38.3	65.52	—	✓	

Notes:

7-10-23 Abby St Drain was removed during Water line work will be replaced by contractor when work is done

8/22/23 - Mowed Lawn

7/28/23 - Decant tank Drum water back to oil separator - approx 10 gal water

9/5/23 - CBW done on tank 1+2 * Calibrated totalizer 1/11/24

9/22/23 - Remove water + pump back into oil/water seperater (From Tar Drum)

11/[illegible]01/23 - Carbon BW Both tanks turned heat on

5771168
5771034

9/29/23 system down

Fort Schuyler Management Corporation

RiverBend Site - Water Treatment Plant

Maintenance Log

Hand running system

Pump greased

Date	Employee Initials	Flow Meter Reading	Lead Tank		Back Flush		Bag Filter Change	Bag Pressure (PSI)		Decant Oil Separator	Tar in Drum (inches)	Instantaneous Flow (GPM)		Abby St Drain check/clean	Sump Flow Check	PS Flow Check
			Tank 1	Tank 2	Tank 1	Tank 2	Both Bags	Before	After			Before	After			
3/11/24	MTF	2028	✓		✓		✓	24.5	22.2	✓	21	48.50	60.82	✓	✓	✓
3/29/24	MTF	2163	✓		—	—	—	—	24.4	✓	–	—	46.56	–	✓	–
4/25/24	MTF	2666	✓		—	—	✓	✓	22.0	✓	–	—	68.86	–	✓	–
6/29/24	MTF	4874	✓		—	—	✓	✓	22.2	✓	–	—	51.50	–	✓	–
6/3/24	MTF	5124	✓		✓	—	—	~~21.7~~	21.7	—		—	72.11	✓	✓	
6/12/24	MTF	5710	✓		✓		✓	22.4	21.9	✓	–	49.60	78.99	–	✓	–
6/18/24	MTF	6158	✓		✓		X	22.9	21.3	✓	–	50.67	67.84	–	✓	–
6/21/24	MTF	6470	✓		✓		✓	22.0	21.7	✓	–	70.31	78.77	–	✓	–
7/10/24	MTF	7142	✓		✓	✓	✓	23.4	21.8	✓		50.75	76.86		✓	
8/7/24	MTF	7469	✓		✓		✓	24.1	22.2	✓	–	45.63	71.89	–	✓	–
8/23/24	MTF	7765	✓		✓	✓	✓	24.0	21.8	✓	–	49.87	71.34	–	✓	–
8/28/24	MTF	8129	✓		✓			22.0	21.2	✓	–	55.40	79.88	–	✓	–
8/30/24	MTF	8423	✓				✓	X		✓		X	52.49		✓	
9/6/24	MTF	8650	✓		✓		✓	23.2	22.1	✓	–	57.93	73.46	–	✓	–
9/16/24	MTF	8950	✓		✓	✓	X	24.7	22.3	✓	–	63.95	80.53	–	✓	–
10/8/24	MTF	9320	✓		✓	✓	✓	23.4	21.9	✓	–	54.5	82.75	–	✓	–
10/26/24	MTF	9575	✓		✓	✓	✓	23.0	22.3	✓		59.3	75.48		✓	
11/4/24	MTF	9874	✓		✓		✓	22.4	21.9	✓	–	63.7	79.33	–	✓	–
11/20/24	MTF	10,221	✓				✓	23.4	22.2	✓	–	68.7	76.80	–	✓	–
11/9/24	RLD	10,410	✓					23.4	22	—	–	67.2	77.9	–	✓	–
11/20/24	RLD	10,410									–			–		–
											–			–		–
											–			–		–
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											–			–		–
											–			–		–

Notes:

* CBW done 6/3 (Hand ran system)

* 6/18/24 → sample taken / system ran by hand

* 7/10/24 → LNAPL Done / system ran by hand (about 700 gallons)

* 8/28/24 → LNAPL Done / system ran by hand / CBW (CP 3 getting low)

11/20/24 → LNAPL Done

* 11/9/25 - collected BSA Effluent Samples

11/10/25 Flow Meter calibrated reset to zero

June 7, 2024

Mr. Michael Szilagyi
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, NY 14213-1799

Re: RiverBend Site
Groundwater Pre-Treatment Discharge Monitoring Results
June 2024 Semi-Annual Compliance Monitoring Report
BPDES Permit No.22-01-BU278

Dear Mr. Szilagyi:

On behalf of Fort Schuyler Management Corporation, Roux Environmental Engineering & Geology D.P.C (Roux) has prepared this correspondence to present the semi-annual 2024 discharge monitoring results for the groundwater pre-treatment system at the above-referenced facility. Discharge monitoring was performed on May 22, 2024.

Sample Collection
Samples were collected from the pretreated process effluent (Outfall 001) in general accordance with Buffalo Pollution Discharge Elimination System (BPDES) Permit No. 22-01-BU278 in laboratory-provided, pre-cleaned, and pre-preserved sample bottles (see Figure 1). Four grab samples for volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis were containerized in individual sample bottles for laboratory composite preparation during sample extraction and USEPA Method 624 and Method 625 analysis, respectively. Composite samples were also collected for laboratory pH and total cyanide analysis. As you are aware, the pre-treatment system pump stations are operating in “manual” mode due to an electrical power surge in the pre-treatment building control panel. The composite samples were prepared for all required parameters by combining grab samples collected at four equally spaced intervals over an 8-hour monitoring period.

Analytical Results
The current period analytical results are presented as Attachment 1. Compounds detected above the laboratory reporting limit for the May 2024 sampling event are summarized in Table 1 along with permitted BSA discharge limits. As presented, all parameters are within allowable limits.

Flow Monitoring
Flow measurement data is presented in Table 1. Average daily flow was based on the total flow recorded during the monitoring period divided by the number of days in that monitoring period. A copy of the annual flow meter calibration data is presented in Attachment 2. The next flow meter calibration is tentatively scheduled for January 2025.

Certification Statement
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or concerns, please contact us.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Rick Dubisz
Senior Scientist II

cc:) T. Alfieri -(Fort Schuyler)
T. Forbes (Roux)

TABLE

ROUX

TABLE 1

2024 SEMI-ANNUAL GROUNDWATER PRETREATMENT SYSTEM DATA SUMMARY

BPDES Permit #22-01-BU278
Fort Schuyler RiverBend Site
312 Abby Street, Buffalo, NY

Parameter	May-24		Daily Discharge Limits [2]
	Concentration (units as indicated)	*Mass [1] (pounds)*	
Laboratory pH (S.U.)	6.98	na	5.0 - 12.0
Field pH (S.U.) [3]	6.89	na	5.0 - 12.0
Volatile Organic Compounds - Method 624 (mg/L)			
Total VOCs	0.00415	0.001	Monitor
Semi-Volatile Organic Compounds - Method 625 (mg/L)			
Total SVOCs	0.00344	0.001	Monitor
Inorganics (mg/L)			
Total Cyanide	2.78	0.707	4.3 lbs
Average Daily Flow (gallons per day) [4]	30,483		*see Note 5*

Notes:

1. The monitoring result is calculated based on the concentration of detected parameters and the average daily flow rate identified below.
2. Mass limits are based on the Average Daily Flow through the December event; actual limits may vary slightly based on actual discharge.
3. Field pH is an average of 4 grab samples collected over a 24-hour period.
4. Average daily flow based on net flow recorded as presented below.
5. Permitted maximum allowable daily flow is 110,000 gpd. An action level of 54,000 gpd is identified in the Permit. The BSA is to be notified if flow consistently exceeds this action level so that the permit can be modified.
6. " ND " = Indicates compound was analyzed for, but not detected above the reporting limit.

Flow Calculations:

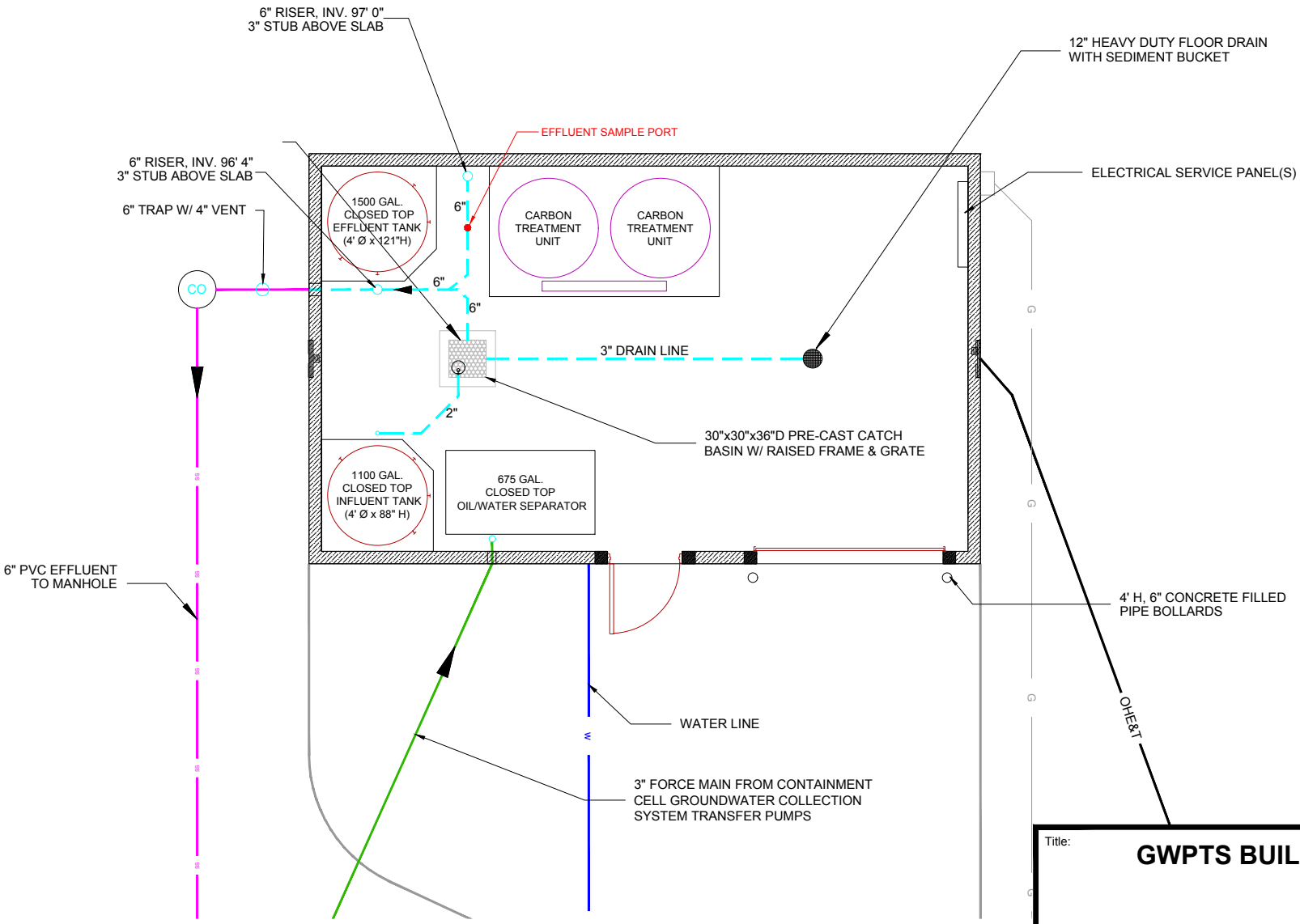
Event	Date	Flow Measurement * (gallons)	Average Daily Flow * (gallons per day)
May 2024	6/30/2023	4,099,244	30,483
	5/22/2024	5,775,752	

Notes:

* = flow meter calibrated and reset to zero on 01/11/24 (5,771,191 gallons). Average daily flow above accounts for the recalibration and zeroing.

FIGURE

F:\CAD\BENCHMARK\FORT SCHUYLER\2024 BSA PERMIT\FIGURE 1; GWPTS BUILDING DETAIL.DWG



Title:

GWPTS BUILDING LAYOUT

RIVERBEND SITE
BUFFALO, NEW YORK

Prepared for:
FORT SCHUYLER MANAGEMENT CORPORATION

ROUX

Compiled by: RFL	Date: JUNE 2024	FIGURE
Prepared by: RD	Scale: AS SHOWN	1
Project Mgr: THF	Project: 4334.00001B000	
File: FIGURE 1; GWPTS BUILDING DETAIL.DWG		

ATTACHMENT 1

LABORATORY ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L2428786
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND BSA
Project Number:	4334.0001B000
Report Date:	06/04/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2428786-01	PROCESS EFFLUENT-GRAB 1-4	WATER	BUFFALO, NY	05/22/24 16:30	05/23/24
L2428786-02	PROCESS EFFLUENTGRAB 1-4 COMPOSITE	WATER	BUFFALO, NY	05/22/24 16:30	05/23/24
L2428786-03	TRIP BLANK	WATER	BUFFALO, NY	05/23/24 00:00	05/23/24

Project Name:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

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:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

Case Narrative (continued)

Report Submission

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

Volatile Organics by Method 624

The WG1926097-3 LCS recovery, associated with L2428786-01, is above the acceptance criteria for 2-hexanone (148%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 06/04/24

ORGANICS

VOLATILES

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2428786-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 05/22/24 16:30
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 05/25/24 09:58
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
Trichlorofluoromethane	ND		ug/l	5.0	0.28	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	3.7		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17	1

Project Name: RIVERBEND BSA **Lab Number:** L2428786

Project Number: 4334.0001B000 **Report Date:** 06/04/24

SAMPLE RESULTS

Lab ID: L2428786-01 Date Collected: 05/22/24 16:30

Client ID: PROCESS EFFLUENT-GRAB 1-4 Date Received: 05/23/24

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.33	1
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	ND		ug/l	10	2.4	1
Carbon disulfide	0.45	J	ug/l	5.0	0.28	1
2-Butanone	ND		ug/l	10	1.0	1
Vinyl acetate	ND		ug/l	10	0.41	1
4-Methyl-2-pentanone	ND		ug/l	10	0.19	1
2-Hexanone	ND		ug/l	10	0.55	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1
Dibromomethane	ND		ug/l	1.0	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	83		60-140
Fluorobenzene	81		60-140
4-Bromofluorobenzene	90		60-140

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/25/24 08:49
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1926097-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
Trichlorofluoromethane	ND		ug/l	5.0	0.28
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	ND		ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17
Trichloroethene	ND		ug/l	1.0	0.33

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 05/25/24 08:49
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1926097-4					
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
p/m-Xylene	ND		ug/l	2.0	0.30
o-xylene	ND		ug/l	1.0	0.34
Xylenes, Total	ND		ug/l	1.0	0.30
Styrene	ND		ug/l	1.0	0.37
Acetone	ND		ug/l	10	2.4
Carbon disulfide	ND		ug/l	5.0	0.28
2-Butanone	ND		ug/l	10	1.0
Vinyl acetate	ND		ug/l	10	0.41
4-Methyl-2-pentanone	ND		ug/l	10	0.19
2-Hexanone	ND		ug/l	10	0.55
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33
Dibromomethane	ND		ug/l	1.0	0.23

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	84		60-140
Fluorobenzene	81		60-140
4-Bromofluorobenzene	81		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926097-3								
Methylene chloride	80		-		60-140	-		28
1,1-Dichloroethane	80		-		50-150	-		49
Chloroform	95		-		70-135	-		54
Carbon tetrachloride	110		-		70-130	-		41
1,2-Dichloropropane	100		-		35-165	-		55
Dibromochloromethane	115		-		70-135	-		50
1,1,2-Trichloroethane	110		-		70-130	-		45
2-Chloroethylvinyl ether	48		-		1-225	-		71
Tetrachloroethene	100		-		70-130	-		39
Chlorobenzene	70		-		65-135	-		53
Trichlorofluoromethane	85		-		50-150	-		84
1,2-Dichloroethane	105		-		70-130	-		49
1,1,1-Trichloroethane	115		-		70-130	-		36
Bromodichloromethane	110		-		65-135	-		56
trans-1,3-Dichloropropene	100		-		50-150	-		86
cis-1,3-Dichloropropene	100		-		25-175	-		58
Bromoform	100		-		70-130	-		42
1,1,2,2-Tetrachloroethane	100		-		60-140	-		61
Benzene	95		-		65-135	-		61
Toluene	95		-		70-130	-		41
Ethylbenzene	80		-		60-140	-		63
Chloromethane	100		-		1-205	-		60
Bromomethane	50		-		15-185	-		61

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926097-3								
Vinyl chloride	80		-		5-195	-		66
Chloroethane	95		-		40-160	-		78
1,1-Dichloroethene	80		-		50-150	-		32
trans-1,2-Dichloroethene	75		-		70-130	-		45
cis-1,2-Dichloroethene	75		-		60-140	-		30
Trichloroethene	85		-		65-135	-		48
1,2-Dichlorobenzene	95		-		65-135	-		57
1,3-Dichlorobenzene	80		-		70-130	-		43
1,4-Dichlorobenzene	80		-		65-135	-		57
p/m-Xylene	82		-		60-140	-		30
o-xylene	70		-		60-140	-		30
Styrene	80		-		60-140	-		30
Acetone	126		-		40-160	-		30
Carbon disulfide	80		-		60-140	-		30
2-Butanone	120		-		60-140	-		30
Vinyl acetate	138		-		60-140	-		30
4-Methyl-2-pentanone	114		-		60-140	-		30
2-Hexanone	**148**	Q	-		60-140	-		30
Acrolein	75		-		60-140	-		30
Acrylonitrile	80		-		60-140	-		60
Dibromomethane	100		-		70-130	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926097-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	85				60-140
Fluorobenzene	86				60-140
4-Bromofluorobenzene	86				60-140

SEMIVOLATILES

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2428786-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 05/22/24 16:30
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 05/28/24 18:25
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 05/27/24 00:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.00	0.407	1
Benzidine[1]	ND		ug/l	20.0	12.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49	1
Hexachlorobenzene	ND		ug/l	2.00	0.952	1
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600	1
2-Chloronaphthalene	ND		ug/l	2.00	0.319	1
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457	1
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636	1
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631	1
Azobenzene[1]	ND		ug/l	2.00	0.889	1
Fluoranthene	1.47	J	ug/l	2.00	0.736	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371	1
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585	1
Hexachlorobutadiene	ND		ug/l	2.00	0.921	1
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36	1
Hexachloroethane	ND		ug/l	2.00	0.973	1
Isophorone	ND		ug/l	5.00	0.546	1
Naphthalene	ND		ug/l	2.00	0.896	1
Nitrobenzene	ND		ug/l	2.00	0.788	1
NDPA/DPA[1]	ND		ug/l	2.00	0.783	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70	1
Butyl benzyl phthalate	ND		ug/l	5.00	0.670	1
Di-n-butylphthalate	ND		ug/l	5.00	0.631	1
Di-n-octylphthalate	ND		ug/l	5.00	0.633	1
Diethyl phthalate	ND		ug/l	5.00	0.717	1

Project Name: RIVERBEND BSA **Lab Number:** L2428786

Project Number: 4334.0001B000 **Report Date:** 06/04/24

SAMPLE RESULTS

Lab ID: L2428786-01 Date Collected: 05/22/24 16:30

Client ID: PROCESS EFFLUENT-GRAB 1-4 Date Received: 05/23/24

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		ug/l	5.00	1.40	1
Benzo(a)anthracene	ND		ug/l	2.00	0.665	1
Benzo(a)pyrene	ND		ug/l	2.00	0.610	1
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741	1
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739	1
Chrysene	ND		ug/l	2.00	0.668	1
Acenaphthylene	ND		ug/l	2.00	0.930	1
Anthracene	ND		ug/l	2.00	0.791	1
Benzo(ghi)perylene	ND		ug/l	2.00	0.672	1
Fluorene	ND		ug/l	2.00	0.927	1
Phenanthrene	1.11	J	ug/l	2.00	0.818	1
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633	1
Pyrene	0.865	J	ug/l	2.00	0.728	1
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407	1
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607	1
p-Chloro-m-cresol[1]	ND		ug/l	2.00	0.533	1
2-Chlorophenol	ND		ug/l	2.00	0.513	1
2,4-Dichlorophenol	ND		ug/l	5.00	0.554	1
2,4-Dimethylphenol	ND		ug/l	5.00	0.851	1
2-Nitrophenol	ND		ug/l	5.00	0.604	1
4-Nitrophenol	ND		ug/l	10.0	0.834	1
2,4-Dinitrophenol	ND		ug/l	20.0	1.21	1
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20	1
Pentachlorophenol	ND		ug/l	5.00	0.622	1
Phenol	ND		ug/l	5.00	0.262	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-87
Phenol-d6	42		16-65
Nitrobenzene-d5	89		42-122
2-Fluorobiphenyl	77		46-121
2,4,6-Tribromophenol	77		45-128
4-Terphenyl-d14	82		47-138

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 05/28/24 11:48
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 05/27/24 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1926111-1					
Acenaphthene	ND		ug/l	2.00	0.407
Benzidine[1]	ND		ug/l	20.0	12.1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49
Hexachlorobenzene	ND		ug/l	2.00	0.952
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600
2-Chloronaphthalene	ND		ug/l	2.00	0.319
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631
Azobenzene[1]	ND		ug/l	2.00	0.889
Fluoranthene	ND		ug/l	2.00	0.736
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585
Hexachlorobutadiene	ND		ug/l	2.00	0.921
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36
Hexachloroethane	ND		ug/l	2.00	0.973
Isophorone	ND		ug/l	5.00	0.546
Naphthalene	ND		ug/l	2.00	0.896
Nitrobenzene	ND		ug/l	2.00	0.788
NDPA/DPA[1]	ND		ug/l	2.00	0.783
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70
Butyl benzyl phthalate	ND		ug/l	5.00	0.670
Di-n-butylphthalate	ND		ug/l	5.00	0.631
Di-n-octylphthalate	ND		ug/l	5.00	0.633
Diethyl phthalate	ND		ug/l	5.00	0.717
Dimethyl phthalate	ND		ug/l	5.00	1.40

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 05/28/24 11:48
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 05/27/24 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1926111-1					
Benzo(a)anthracene	ND		ug/l	2.00	0.665
Benzo(a)pyrene	ND		ug/l	2.00	0.610
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739
Chrysene	ND		ug/l	2.00	0.668
Acenaphthylene	ND		ug/l	2.00	0.930
Anthracene	ND		ug/l	2.00	0.791
Benzo(ghi)perylene	ND		ug/l	2.00	0.672
Fluorene	ND		ug/l	2.00	0.927
Phenanthrene	ND		ug/l	2.00	0.818
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633
Pyrene	ND		ug/l	2.00	0.728
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607
p-Chloro-m-cresol[1]	ND		ug/l	2.00	0.533
2-Chlorophenol	ND		ug/l	2.00	0.513
2,4-Dichlorophenol	ND		ug/l	5.00	0.554
2,4-Dimethylphenol	ND		ug/l	5.00	0.851
2-Nitrophenol	ND		ug/l	5.00	0.604
4-Nitrophenol	ND		ug/l	10.0	0.834
2,4-Dinitrophenol	ND		ug/l	20.0	1.21
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20
Pentachlorophenol	ND		ug/l	5.00	0.622
Phenol	ND		ug/l	5.00	0.262

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 05/28/24 11:48
Analyst: JG

Extraction Method: EPA 625.1
Extraction Date: 05/27/24 00:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1926111-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-87
Phenol-d6	38		16-65
Nitrobenzene-d5	94		42-122
2-Fluorobiphenyl	79		46-121
2,4,6-Tribromophenol	71		45-128
4-Terphenyl-d14	93		47-138

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926111-2								
Acenaphthene	93		-		60-132	-		48
Benzidine[1]	20		-		0-70	-		30
1,2,4-Trichlorobenzene	79		-		57-130	-		50
Hexachlorobenzene	80		-		8-142	-		55
Bis(2-chloroethyl)ether	89		-		43-126	-		108
2-Chloronaphthalene	87		-		65-120	-		24
3,3'-Dichlorobenzidine	40		-		8-213	-		108
2,4-Dinitrotoluene	109		-		48-127	-		42
2,6-Dinitrotoluene	103		-		68-137	-		48
Azobenzene[1]	106		-		44-115	-		23
Fluoranthene	100		-		43-121	-		66
4-Chlorophenyl phenyl ether	87		-		38-145	-		61
4-Bromophenyl phenyl ether	86		-		65-120	-		43
Bis(2-chloroisopropyl)ether	104		-		63-139	-		76
Bis(2-chloroethoxy)methane	100		-		49-165	-		54
Hexachlorobutadiene	72		-		38-120	-		62
Hexachlorocyclopentadiene[1]	72		-		7-118	-		35
Hexachloroethane	86		-		55-120	-		52
Isophorone	105		-		47-180	-		93
Naphthalene	86		-		36-120	-		65
Nitrobenzene	100		-		54-158	-		62
NDPA/DPA[1]	96		-		45-112	-		36
n-Nitrosodi-n-propylamine	105		-		14-198	-		87

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926111-2								
Bis(2-ethylhexyl)phthalate	106		-		29-137	-		82
Butyl benzyl phthalate	121		-		1-140	-		60
Di-n-butylphthalate	112		-		8-120	-		47
Di-n-octylphthalate	111		-		19-132	-		69
Diethyl phthalate	103		-		1-120	-		100
Dimethyl phthalate	93		-		1-120	-		183
Benzo(a)anthracene	90		-		42-133	-		53
Benzo(a)pyrene	95		-		32-148	-		72
Benzo(b)fluoranthene	90		-		42-140	-		71
Benzo(k)fluoranthene	96		-		25-146	-		63
Chrysene	92		-		44-140	-		87
Acenaphthylene	94		-		54-126	-		74
Anthracene	100		-		43-120	-		66
Benzo(ghi)perylene	95		-		1-195	-		97
Fluorene	91		-		70-120	-		38
Phenanthrene	96		-		65-120	-		39
Dibenzo(a,h)anthracene	99		-		1-200	-		126
Indeno(1,2,3-cd)pyrene	98		-		1-151	-		99
Pyrene	97		-		70-120	-		49
n-Nitrosodimethylamine[1]	52		-		15-68	-		17
2,4,6-Trichlorophenol	85		-		52-129	-		58
p-Chloro-m-cresol[1]	102		-		68-130	-		73
2-Chlorophenol	84		-		36-120	-		61

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1926111-2								
2,4-Dichlorophenol	95		-		53-122	-		50
2,4-Dimethylphenol	92		-		42-120	-		58
2-Nitrophenol	91		-		45-167	-		55
4-Nitrophenol	80		-		13-129	-		131
2,4-Dinitrophenol	63		-		1-173	-		132
4,6-Dinitro-o-cresol	88		-		56-130	-		203
Pentachlorophenol	69		-		38-152	-		86
Phenol	46		-		17-120	-		64

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54				25-87
Phenol-d6	42				16-65
Nitrobenzene-d5	96				42-122
2-Fluorobiphenyl	80				46-121
2,4,6-Tribromophenol	84				45-128
4-Terphenyl-d14	90				47-138

INORGANICS
&
MISCELLANEOUS

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

SAMPLE RESULTS

Lab ID: L2428786-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 05/22/24 16:30
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	2.78		mg/l	0.050	0.018	10	06/04/24 12:15	06/04/24 17:19	121,4500CN-CE	JER
pH (H)	6.98		SU	-	NA	1	-	05/24/24 23:55	121,4500H+-B	CAR

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2428786
Report Date: 06/04/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1929421-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/04/24 12:15	06/04/24 15:32	121,4500CN-CE	JER

Lab Control Sample Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1925673-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1929421-2								
Cyanide, Total	98		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1929421-3 QC Sample: L2428447-01 Client ID: MS Sample												
Cyanide, Total	0.001J	0.2	0.174	**87**	Q	-	-		90-110	-		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2428786

Report Date: 06/04/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1925673-2 QC Sample: L2428164-01 Client ID: DUP Sample						
pH	7.67	7.66	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1929421-4 QC Sample: L2428447-01 Client ID: DUP Sample						
Cyanide, Total	0.001J	0.005	mg/l	NC		30

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

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(*)
L2428786-01A	Vial Na2S2O3 preserved split	A	NA		4.2	Y	Absent		624.1(3)
L2428786-01B	Vial Na2S2O3 preserved split	A	NA		4.2	Y	Absent		624.1(3)
L2428786-01C	Vial Na2S2O3 preserved split	A	NA		4.2	Y	Absent		624.1(3)
L2428786-01D	Plastic 250ml NaOH preserved split	A	NA		4.2	Y	Absent		TCN-4500(14)
L2428786-01E	Plastic 250ml unpreserved split	A	NA		4.2	Y	Absent		PH-4500(.01)
L2428786-01F	Split Amber 1000ml Na2S2O3	A	NA		4.2	Y	Absent		625.1(7)
L2428786-01G	Split Amber 1000ml Na2S2O3	A	NA		4.2	Y	Absent		625.1(7)
L2428786-02A	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02A1	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02A2	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02A3	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02B	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02B1	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02B2	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02B3	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02C	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02C1	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02C2	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02C3	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		COMP-VOA()
L2428786-02D	Plastic 250ml NaOH preserved	A	>12	>12	4.2	Y	Absent		COMP-W()
L2428786-02D1	Plastic 250ml NaOH preserved	A	>12	>12	4.2	Y	Absent		COMP-W()
L2428786-02D2	Plastic 250ml NaOH preserved	A	>12	>12	4.2	Y	Absent		COMP-W()
L2428786-02D3	Plastic 250ml NaOH preserved	A	>12	>12	4.2	Y	Absent		COMP-W()

*Values in parentheses indicate holding time in days

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2428786
Report Date: 06/04/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2428786-02E	Plastic 120ml unpreserved	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02E1	Plastic 120ml unpreserved	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02E2	Plastic 120ml unpreserved	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02E3	Plastic 120ml unpreserved	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02F	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02F1	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02F2	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02F3	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02G	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02G1	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02G2	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-02G3	Amber 1000ml Na2S2O3	A	7	7	4.2	Y	Absent		COMP-W()
L2428786-03A	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		HOLD-624(7)
L2428786-03B	Vial Na2S2O3 preserved	A	NA		4.2	Y	Absent		HOLD-624(7)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	RIVERBEND BSA	**Lab Number:**	L2428786
Project Number:	4334.0001B000	**Report Date:**	06/04/24

REFERENCES

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

128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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: 5/24/24

ALPHA Job #: L2428786

Client Information

Client: Roux Env Eng & Geo
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-856-0595
Fax:
Email: rdubsz@rouxinc.com

Project Information

Project Name: River Bend BSA
Project Location: Buffalo, NY
Project #: 4334.0001B000
(Use Project name as Project #) ☑
Project Manager: R. Dubsz
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:

Please specify Metals or TAL.

ANALYSIS

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

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	624	625	TCN	pH	Sample Specific Comments
28786 -01,-02	Process Effluent - Grab-1	5/22/24	0730	W	RLO	x	x	x	x	Lab to composite 1-4
-01,-02	Process Effluent - Grab-2		1033			x	x	x	x	Lab to composite 1-4
-01,-02	Process Effluent - Grab-3		1330			x	x	x	x	Lab to composite 1-4
-01,-02	Process Effluent - Grab-4		1630			x	x	x	x	Lab to composite 1-4
-03	Trip Blank	5/23/24	0900	W						H2O

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

Container Type	V	A	P	P			
Preservative	H	H	E	A			

Relinquished By:	Date/Time	Received By:	Date/Time
	5/23/24 0945	PACE	5/23/24 1440
PACE	5/23/24 1620		5/24/24 0050

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)

ATTACHMENT 2

FLOW METER CALIBRATION DATA

Cold Spring Environmental
3248 Buffalo Rd., Varysburg, N.Y. 14167
Ph: 716-863-7052

January 17, 2024

Roux
Att. Rick Dubisz
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

Ref: Flow Meter Calibration

Dear Mr. Dubisz,

Calibration Date: January 11, 2024
Site location: River Bend Pretreatment Building, 192 Baraga St.
Equipment Model:Signet GF 8550
Equipment type: Closed Pipe impellor
Equipment S/N: 60210142061
Impellor Model: P51530-P0
Impellor: S/N 60305023102
Measuring device: 3 inch PVC pipe
Output type: 4-20mA
Totalizer multiplier: 1 gallon

Displayed level/flow rate: 0 GPM
Measured Level/flow rate: 0 GPM
Displayed level/flow rate: 27-28 GPM
Measured Level/flow rate: 27-28 GPM
Percent Difference: 0%
Adjustment: no
Note: Reset the totalizer to zero

Please contact me with any questions.

Sincerely, Jon Wolak

716-863-7052
jonwolak@yahoo.com

January 14, 2025

Mr. Michael Szilagyi
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, NY 14213-1799

Re: RiverBend Site
Groundwater Pre-Treatment Discharge Monitoring Results
Semi-Annual Compliance Monitoring Report
BPDES Permit No.22-01-BU278

Dear Mr. Szilagyi:

On behalf of Fort Schuyler Management Corporation, Roux Environmental Engineering & Geology D.P.C (Roux) has prepared this correspondence to present the semi-annual 2024 discharge monitoring results for the groundwater pre-treatment system at the above-referenced facility. Discharge monitoring was performed on January 9, 2025.

Sample Collection
Samples were collected from the pretreated process effluent (Outfall 001) in general accordance with Buffalo Pollution Discharge Elimination System (BPDES) Permit No. 22-01-BU278 in laboratory-provided, pre-cleaned, and pre-preserved sample bottles (see Figure 1). Four grab samples for volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis were containerized in individual sample bottles for laboratory composite preparation during sample extraction and USEPA Method 624 and Method 625 analysis, respectively. Composite samples were also collected for laboratory pH and total cyanide analysis. As you are aware, the pre-treatment system pump stations are operating in “manual” mode as electrical upgrades to the control panels are being made. The composite samples were prepared for all required parameters by combining grab samples collected at four equally spaced intervals over an 8-hour monitoring period.

Analytical Results
The current period analytical results are presented as Attachment 1. Compounds detected above the laboratory reporting limit for the January 2025 sampling event are summarized in Table 1 along with permitted BSA discharge limits. As presented, all parameters are within allowable limits.

Flow Monitoring
Flow measurement data is presented in Table 1. Average daily flow was based on the total flow recorded during the monitoring period divided by the number of days in that monitoring period. A copy of the annual flow meter calibration data is presented in Attachment 2. The next flow meter calibration is tentatively scheduled for January 2025.

Certification Statement
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or concerns, please contact us.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Rick Dubisz
Senior Scientist II

cc:) T. Alfieri -(Fort Schuyler)
T. Forbes (Roux)

TABLE

ROUX

TABLE 1

2024 SEMI-ANNUAL GROUNDWATER PRETREATMENT SYSTEM DATA SUMMARY

BPDES Permit #22-01-BU278
Fort Schuyler RiverBend Site
312 Abby Street, Buffalo, NY

Parameter	Jan-25		Daily Discharge Limits [2]
	Concentration (units as indicated)	*Mass [1] (pounds)*	
Laboratory pH (S.U.)	7.50	na	5.0 - 12.0
Field pH (S.U.) [3]	8.75	na	5.0 - 12.0
Volatile Organic Compounds - Method 624 (mg/L)			
Total VOCs	ND	0.000	Monitor
Semi-Volatile Organic Compounds - Method 625 (mg/L)			
Total SVOCs	ND	0.000	Monitor
Inorganics (mg/L)			
Total Cyanide	0.498	0.000	4.3 lbs
Average Daily Flow (gallons per day) [4]	24		*see Note 5*

Notes:

1. The monitoring result is calculated based on the concentration of detected parameters and the average daily flow rate identified below.
2. Mass limits are based on the Average Daily Flow through the December event; actual limits may vary slightly based on actual discharge.
3. Field pH is an average of 4 grab samples collected over a 24-hour period.
4. Average daily flow based on net flow recorded as presented below.
5. Permitted maximum allowable daily flow is 110,000 gpd. An action level of 54,000 gpd is identified in the Permit. The BSA is to be notified if flow consistently exceeds this action level so that the permit can be modified.
6. " ND " = Indicates compound was analyzed for, but not detected above the reporting limit.

Flow Calculations:

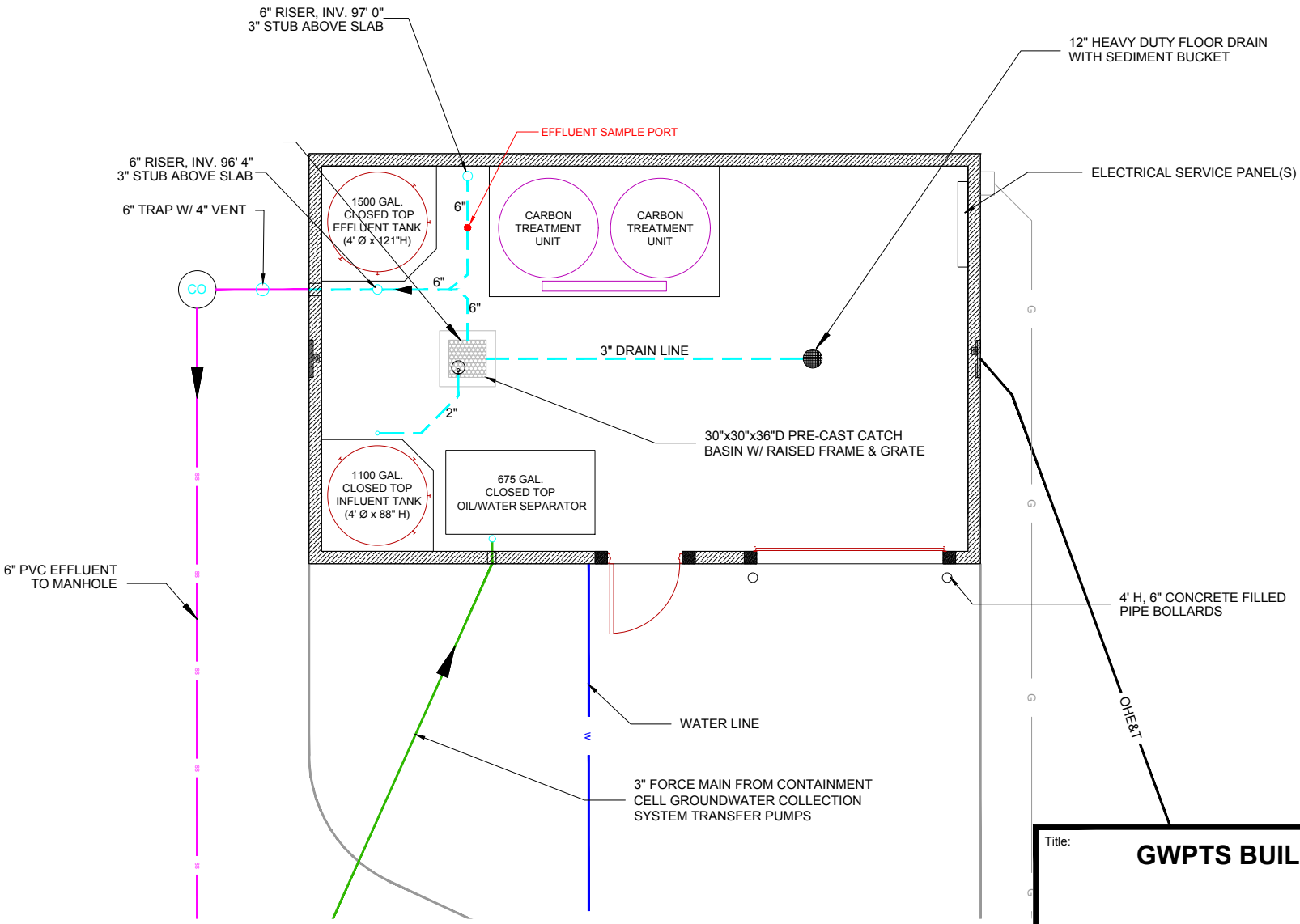
Event	Date	Flow Measurement * (gallons)	Average Daily Flow * (gallons per day)
January 2025	5/22/2024	5,776,065	24
	1/9/2025	5,781,529	

Notes:

* = flow meter calibrated and reset to zero on 01/11/24 (5,771,191 gallons). Average daily flow above accounts for the recalibration and zeroing.

FIGURE

F:\CAD\BENCHMARK\FORT SCHUYLER\2024 BSA PERMIT\FIGURE 1; GWPTS BUILDING DETAIL.DWG



Title:

GWPTS BUILDING LAYOUT

RIVERBEND SITE
BUFFALO, NEW YORK

Prepared for:
FORT SCHUYLER MANAGEMENT CORPORATION

ROUX

Compiled by: RFL	Date: JUNE 2024	FIGURE
Prepared by: RD	Scale: AS SHOWN	1
Project Mgr: THF	Project: 4334.00001B000	
File: FIGURE 1; GWPTS BUILDING DETAIL.DWG		

ATTACHMENT 1

LABORATORY ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L2501545
Client:	Roux 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Rick Dubisz
Phone:	(716) 856-0599
Project Name:	RIVERBEND BSA
Project Number:	4334.0001B000
Report Date:	01/14/25

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2501545-01	PROCESS EFFLUENT-GRAB 1-4	WATER	BUFFALO, NY	01/09/25 15:15	01/10/25
L2501545-02	PROCESS EFFLUENTGRAB 1-4 COMPOSITE	WATER	BUFFALO, NY	01/09/25 15:15	01/10/25
L2501545-03	TRIP BLANK	WATER	BUFFALO, NY	01/09/25 00:00	01/10/25

Project Name:	RIVERBEND BSA	**Lab Number:**	L2501545
Project Number:	4334.0001B000	**Report Date:**	01/14/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace 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:	RIVERBEND BSA	**Lab Number:**	L2501545
Project Number:	4334.0001B000	**Report Date:**	01/14/25

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: 01/14/25

ORGANICS

VOLATILES

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

SAMPLE RESULTS

Lab ID: L2501545-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 01/09/25 15:15
Date Received: 01/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 01/11/25 14:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
Trichlorofluoromethane	ND		ug/l	5.0	0.28	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17	1

Project Name: RIVERBEND BSA **Lab Number:** L2501545

Project Number: 4334.0001B000 **Report Date:** 01/14/25

SAMPLE RESULTS

Lab ID: L2501545-01 Date Collected: 01/09/25 15:15

Client ID: PROCESS EFFLUENT-GRAB 1-4 Date Received: 01/10/25

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	0.33	1
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	ND		ug/l	10	2.4	1
Carbon disulfide	ND		ug/l	5.0	0.28	1
2-Butanone	ND		ug/l	10	1.0	1
Vinyl acetate	ND		ug/l	10	0.41	1
4-Methyl-2-pentanone	ND		ug/l	10	0.19	1
2-Hexanone	ND		ug/l	10	0.55	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1
Dibromomethane	ND		ug/l	1.0	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		60-140
Fluorobenzene	97		60-140
4-Bromofluorobenzene	94		60-140

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/11/25 11:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2019176-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
Trichlorofluoromethane	ND		ug/l	5.0	0.28
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	ND		ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
cis-1,2-Dichloroethene	ND		ug/l	1.0	0.17
Trichloroethene	ND		ug/l	1.0	0.33

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 01/11/25 11:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2019176-4					
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
p/m-Xylene	ND		ug/l	2.0	0.30
o-xylene	ND		ug/l	1.0	0.34
Xylenes, Total	ND		ug/l	1.0	0.30
Styrene	ND		ug/l	1.0	0.37
Acetone	ND		ug/l	10	2.4
Carbon disulfide	ND		ug/l	5.0	0.28
2-Butanone	ND		ug/l	10	1.0
Vinyl acetate	ND		ug/l	10	0.41
4-Methyl-2-pentanone	ND		ug/l	10	0.19
2-Hexanone	ND		ug/l	10	0.55
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33
Dibromomethane	ND		ug/l	1.0	0.23

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		60-140
Fluorobenzene	96		60-140
4-Bromofluorobenzene	92		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2019176-3								
Methylene chloride	100		-		60-140	-		28
1,1-Dichloroethane	110		-		50-150	-		49
Chloroform	110		-		70-135	-		54
Carbon tetrachloride	110		-		70-130	-		41
1,2-Dichloropropane	105		-		35-165	-		55
Dibromochloromethane	100		-		70-135	-		50
1,1,2-Trichloroethane	105		-		70-130	-		45
2-Chloroethylvinyl ether	90		-		1-225	-		71
Tetrachloroethene	95		-		70-130	-		39
Chlorobenzene	85		-		65-135	-		53
Trichlorofluoromethane	120		-		50-150	-		84
1,2-Dichloroethane	115		-		70-130	-		49
1,1,1-Trichloroethane	110		-		70-130	-		36
Bromodichloromethane	100		-		65-135	-		56
trans-1,3-Dichloropropene	105		-		50-150	-		86
cis-1,3-Dichloropropene	105		-		25-175	-		58
Bromoform	90		-		70-130	-		42
1,1,2,2-Tetrachloroethane	100		-		60-140	-		61
Benzene	105		-		65-135	-		61
Toluene	95		-		70-130	-		41
Ethylbenzene	95		-		60-140	-		63
Chloromethane	120		-		1-205	-		60
Bromomethane	90		-		15-185	-		61

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2019176-3								
Vinyl chloride	130		-		5-195	-		66
Chloroethane	130		-		40-160	-		78
1,1-Dichloroethene	110		-		50-150	-		32
trans-1,2-Dichloroethene	105		-		70-130	-		45
cis-1,2-Dichloroethene	100		-		60-140	-		30
Trichloroethene	105		-		65-135	-		48
1,2-Dichlorobenzene	95		-		65-135	-		57
1,3-Dichlorobenzene	90		-		70-130	-		43
1,4-Dichlorobenzene	95		-		65-135	-		57
p/m-Xylene	92		-		60-140	-		30
o-xylene	90		-		60-140	-		30
Styrene	90		-		60-140	-		30
Acetone	126		-		40-160	-		30
Carbon disulfide	105		-		60-140	-		30
2-Butanone	110		-		60-140	-		30
Vinyl acetate	95		-		60-140	-		30
4-Methyl-2-pentanone	96		-		60-140	-		30
2-Hexanone	122		-		60-140	-		30
Acrolein	120		-		60-140	-		30
Acrylonitrile	112		-		60-140	-		60
Dibromomethane	105		-		70-130	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2019176-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	103				60-140
Fluorobenzene	102				60-140
4-Bromofluorobenzene	99				60-140

SEMIVOLATILES

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

SAMPLE RESULTS

Lab ID: L2501545-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 01/09/25 15:15
Date Received: 01/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 01/12/25 18:05
Analyst: SMZ

Extraction Method: EPA 625.1
Extraction Date: 01/11/25 09:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.00	0.407	1
Benzidine[1]	ND		ug/l	20.0	12.1	1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49	1
Hexachlorobenzene	ND		ug/l	2.00	0.952	1
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600	1
2-Chloronaphthalene	ND		ug/l	2.00	0.319	1
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457	1
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636	1
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631	1
Azobenzene[1]	ND		ug/l	2.00	0.889	1
Fluoranthene	ND		ug/l	2.00	0.736	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371	1
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585	1
Hexachlorobutadiene	ND		ug/l	2.00	0.921	1
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36	1
Hexachloroethane	ND		ug/l	2.00	0.973	1
Isophorone	ND		ug/l	5.00	0.546	1
Naphthalene	ND		ug/l	2.00	0.896	1
Nitrobenzene	ND		ug/l	2.00	0.788	1
NDPA/DPA[1]	ND		ug/l	2.00	0.783	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70	1
Butyl benzyl phthalate	ND		ug/l	5.00	0.670	1
Di-n-butylphthalate	ND		ug/l	5.00	0.631	1
Di-n-octylphthalate	ND		ug/l	5.00	0.633	1
Diethyl phthalate	ND		ug/l	5.00	0.717	1

Project Name: RIVERBEND BSA **Lab Number:** L2501545

Project Number: 4334.0001B000 **Report Date:** 01/14/25

SAMPLE RESULTS

Lab ID: L2501545-01 Date Collected: 01/09/25 15:15

Client ID: PROCESS EFFLUENT-GRAB 1-4 Date Received: 01/10/25

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		ug/l	5.00	1.40	1
Benzo(a)anthracene	ND		ug/l	2.00	0.665	1
Benzo(a)pyrene	ND		ug/l	2.00	0.610	1
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741	1
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739	1
Chrysene	ND		ug/l	2.00	0.668	1
Acenaphthylene	ND		ug/l	2.00	0.930	1
Anthracene	ND		ug/l	2.00	0.791	1
Benzo(ghi)perylene	ND		ug/l	2.00	0.672	1
Fluorene	ND		ug/l	2.00	0.927	1
Phenanthrene	ND		ug/l	2.00	0.818	1
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633	1
Pyrene	ND		ug/l	2.00	0.728	1
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407	1
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607	1
p-Chloro-m-cresol	ND		ug/l	2.00	0.533	1
2-Chlorophenol	ND		ug/l	2.00	0.513	1
2,4-Dichlorophenol	ND		ug/l	5.00	0.554	1
2,4-Dimethylphenol	ND		ug/l	5.00	0.851	1
2-Nitrophenol	ND		ug/l	5.00	0.604	1
4-Nitrophenol	ND		ug/l	10.0	0.834	1
2,4-Dinitrophenol	ND		ug/l	20.0	1.21	1
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20	1
Pentachlorophenol	ND		ug/l	5.00	0.622	1
Phenol	ND		ug/l	5.00	0.262	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		25-87
Phenol-d6	34		16-65
Nitrobenzene-d5	83		42-122
2-Fluorobiphenyl	73		46-121
2,4,6-Tribromophenol	98		45-128
4-Terphenyl-d14	79		47-138

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 01/11/25 07:38
Analyst: CMM

Extraction Method: EPA 625.1
Extraction Date: 01/10/25 21:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2018708-1					
Acenaphthene	ND		ug/l	2.00	0.407
Benzidine[1]	ND		ug/l	20.0	12.1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49
Hexachlorobenzene	ND		ug/l	2.00	0.952
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600
2-Chloronaphthalene	ND		ug/l	2.00	0.319
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631
Azobenzene[1]	ND		ug/l	2.00	0.889
Fluoranthene	ND		ug/l	2.00	0.736
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585
Hexachlorobutadiene	ND		ug/l	2.00	0.921
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36
Hexachloroethane	ND		ug/l	2.00	0.973
Isophorone	ND		ug/l	5.00	0.546
Naphthalene	ND		ug/l	2.00	0.896
Nitrobenzene	ND		ug/l	2.00	0.788
NDPA/DPA[1]	ND		ug/l	2.00	0.783
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70
Butyl benzyl phthalate	ND		ug/l	5.00	0.670
Di-n-butylphthalate	ND		ug/l	5.00	0.631
Di-n-octylphthalate	ND		ug/l	5.00	0.633
Diethyl phthalate	ND		ug/l	5.00	0.717
Dimethyl phthalate	ND		ug/l	5.00	1.40

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 01/11/25 07:38
Analyst: CMM

Extraction Method: EPA 625.1
Extraction Date: 01/10/25 21:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2018708-1					
Benzo(a)anthracene	ND		ug/l	2.00	0.665
Benzo(a)pyrene	ND		ug/l	2.00	0.610
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739
Chrysene	ND		ug/l	2.00	0.668
Acenaphthylene	ND		ug/l	2.00	0.930
Anthracene	ND		ug/l	2.00	0.791
Benzo(ghi)perylene	ND		ug/l	2.00	0.672
Fluorene	ND		ug/l	2.00	0.927
Phenanthrene	ND		ug/l	2.00	0.818
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633
Pyrene	ND		ug/l	2.00	0.728
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607
p-Chloro-m-cresol	ND		ug/l	2.00	0.533
2-Chlorophenol	ND		ug/l	2.00	0.513
2,4-Dichlorophenol	ND		ug/l	5.00	0.554
2,4-Dimethylphenol	ND		ug/l	5.00	0.851
2-Nitrophenol	ND		ug/l	5.00	0.604
4-Nitrophenol	ND		ug/l	10.0	0.834
2,4-Dinitrophenol	ND		ug/l	20.0	1.21
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20
Pentachlorophenol	ND		ug/l	5.00	0.622
Phenol	ND		ug/l	5.00	0.262

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 01/11/25 07:38
Analyst: CMM

Extraction Method: EPA 625.1
Extraction Date: 01/10/25 21:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2018708-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-87
Phenol-d6	41		16-65
Nitrobenzene-d5	99		42-122
2-Fluorobiphenyl	86		46-121
2,4,6-Tribromophenol	109		45-128
4-Terphenyl-d14	96		47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2018708-2								
Acenaphthene	77		-		47-145	-		48
Benzidine[1]	12		-		0-70	-		30
1,2,4-Trichlorobenzene	83		-		44-142	-		50
Hexachlorobenzene	97		-		1-152	-		55
Bis(2-chloroethyl)ether	83		-		12-158	-		108
2-Chloronaphthalene	82		-		60-120	-		24
3,3'-Dichlorobenzidine	41		-		1-262	-		108
2,4-Dinitrotoluene	96		-		39-139	-		42
2,6-Dinitrotoluene	98		-		50-158	-		48
Azobenzene[1]	95		-		44-115	-		23
Fluoranthene	87		-		26-137	-		66
4-Chlorophenyl phenyl ether	86		-		25-158	-		61
4-Bromophenyl phenyl ether	96		-		53-127	-		43
Bis(2-chloroisopropyl)ether	75		-		36-166	-		76
Bis(2-chloroethoxy)methane	89		-		33-184	-		54
Hexachlorobutadiene	92		-		24-120	-		62
Hexachlorocyclopentadiene[1]	107		-		7-118	-		35
Hexachloroethane	78		-		40-120	-		52
Isophorone	101		-		21-196	-		93
Naphthalene	76		-		21-133	-		65
Nitrobenzene	95		-		35-180	-		62
NDPA/DPA[1]	85		-		45-112	-		36
n-Nitrosodi-n-propylamine	107		-		1-230	-		87

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2018708-2								
Bis(2-ethylhexyl)phthalate	88		-		8-158	-		82
Butyl benzyl phthalate	85		-		1-140	-		60
Di-n-butylphthalate	94		-		1-120	-		47
Di-n-octylphthalate	83		-		19-132	-		69
Diethyl phthalate	88		-		1-120	-		100
Dimethyl phthalate	90		-		1-120	-		183
Benzo(a)anthracene	81		-		33-143	-		53
Benzo(a)pyrene	95		-		17-163	-		72
Benzo(b)fluoranthene	82		-		24-159	-		71
Benzo(k)fluoranthene	86		-		11-162	-		63
Chrysene	74		-		17-168	-		87
Acenaphthylene	92		-		33-145	-		74
Anthracene	83		-		27-133	-		66
Benzo(ghi)perylene	81		-		1-219	-		97
Fluorene	82		-		59-121	-		38
Phenanthrene	76		-		54-120	-		39
Dibenzo(a,h)anthracene	81		-		1-227	-		126
Indeno(1,2,3-cd)pyrene	81		-		1-171	-		99
Pyrene	86		-		52-120	-		49
n-Nitrosodimethylamine[1]	63		-		15-68	-		17
2,4,6-Trichlorophenol	98		-		37-144	-		58
p-Chloro-m-cresol	98		-		68-130	-		73
2-Chlorophenol	80		-		23-124	-		61

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2018708-2								
2,4-Dichlorophenol	92		-		39-135	-		50
2,4-Dimethylphenol	104		-		32-120	-		58
2-Nitrophenol	94		-		29-182	-		55
4-Nitrophenol	72		-		1-132	-		131
2,4-Dinitrophenol	65		-		1-191	-		132
4,6-Dinitro-o-cresol	87		-		56-130	-		203
Pentachlorophenol	95		-		14-176	-		86
Phenol	45		-		5-120	-		64

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	61				25-87
Phenol-d6	43				16-65
Nitrobenzene-d5	99				42-122
2-Fluorobiphenyl	85				46-121
2,4,6-Tribromophenol	117				45-128
4-Terphenyl-d14	94				47-138

INORGANICS
&
MISCELLANEOUS

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

SAMPLE RESULTS

Lab ID: L2501545-01
Client ID: PROCESS EFFLUENT-GRAB 1-4
Sample Location: BUFFALO, NY

Date Collected: 01/09/25 15:15
Date Received: 01/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.498		mg/l	0.005	0.001	1	01/12/25 10:00	01/13/25 12:31	121,4500CN-CE	JER
pH (H)	7.50		SU	-	NA	1	-	01/11/25 11:39	121,4500H+-B	DMO

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
Lab Number: L2501545
Report Date: 01/14/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2018935-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/12/25 10:00	01/13/25 12:09	121,4500CN-CE	JER

Lab Control Sample Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2018808-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2018935-2								
Cyanide, Total	93		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2018935-3 QC Sample: L2501422-02 Client ID: MS Sample												
Cyanide, Total	0.042	0.2	0.219	**88**	Q	-	-		90-110	-		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: RIVERBEND BSA

Project Number: 4334.0001B000

Lab Number: L2501545

Report Date: 01/14/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2018808-2 QC Sample: L2501591-01 Client ID: DUP Sample						
pH	7.52	7.54	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2018935-4 QC Sample: L2501422-02 Client ID: DUP Sample						
Cyanide, Total	0.042	0.033	mg/l	25		30

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2501545-01A	Vial Na2S2O3 preserved split	A	NA		3.2	Y	Absent		624.1(3)
L2501545-01B	Vial Na2S2O3 preserved split	A	NA		3.2	Y	Absent		624.1(3)
L2501545-01C	Vial Na2S2O3 preserved split	A	NA		3.2	Y	Absent		624.1(3)
L2501545-01D	Plastic 250ml unpreserved split	A	NA		3.2	Y	Absent		PH-4500(.01)
L2501545-01E	Plastic 250ml NaOH preserved split	A	NA		3.2	Y	Absent		TCN-4500(14)
L2501545-01F	Split Amber 1L Na2S2O3	A	NA		3.2	Y	Absent		625.1(7)
L2501545-01G	Split Amber 1L Na2S2O3	A	NA		3.2	Y	Absent		625.1(7)
L2501545-02A	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02A1	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02A2	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02A3	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02B	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02B1	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02B2	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02B3	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02C	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02C1	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02C2	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02C3	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		COMP-VOA()
L2501545-02D	Plastic 120ml unpreserved	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02D1	Plastic 120ml unpreserved	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02D2	Plastic 120ml unpreserved	A	7	7	3.2	Y	Absent		COMP-W()

*Values in parentheses indicate holding time in days

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000

Lab Number: L2501545
Report Date: 01/14/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2501545-02D3	Plastic 120ml unpreserved	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02E	Plastic 250ml NaOH preserved	A	>12	>12	3.2	Y	Absent		COMP-W()
L2501545-02E1	Plastic 250ml NaOH preserved	A	>12	>12	3.2	Y	Absent		COMP-W()
L2501545-02E2	Plastic 250ml NaOH preserved	A	>12	>12	3.2	Y	Absent		COMP-W()
L2501545-02E3	Plastic 250ml NaOH preserved	A	>12	>12	3.2	Y	Absent		COMP-W()
L2501545-02F	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02F1	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02F2	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02F3	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02G	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02G1	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02G2	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-02G3	Amber 1L Na2S2O3	A	7	7	3.2	Y	Absent		COMP-W()
L2501545-03A	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		HOLD-624(7)
L2501545-03B	Vial Na2S2O3 preserved	A	NA		3.2	Y	Absent		HOLD-624(7)

*Values in parentheses indicate holding time in days

Project Name:	RIVERBEND BSA	**Lab Number:**	L2501545
Project Number:	4334.0001B000	**Report Date:**	01/14/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: RIVERBEND BSA
Project Number: 4334.0001B000
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REFERENCES

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

128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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 – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
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.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Alpha SOP 23528

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

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

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

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

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

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

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

NEW YORK CHAIN OF CUSTODY

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

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: 01/11/25

ALPHA Job #: L2501545

Client Information

Client: Roux Env Eng & Geo DPC
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: R.Dolese

Project Information

Project Name: River Bend - BSA
Project Location: Buffalo, NY
Project #: 4334.0001.B000
(Use Project name as Project #) ☑
Project Manager: R. Dolese
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 2 DAY

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

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

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	VOC 624	VOC 625	T-CN	pH	Sample Specific Comments	Total Bottle
01545-01	Process Effluent Grab-1	1/9/25	0710	W	RLD	✓	✓	✓	✓	LAB to composite 1-4	
	Process Effluent Grab-2	1/9/25	1020	W	RLD	✓	✓	✓	✓	LAB to composite 1-4	
	Process Effluent Grab-3	1/9/25	1330	W	RLD	✓	✓	✓	✓	LAB to composite 1-4	
↓	Process Effluent Grab-4	1/9/25	1515	W	RLD	✓	✓	✓	✓	LAB to composite 1-4	
-03	Trip Blank			W						HOLD	

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

Container Type	V	A	P	P
Preservative	H	A	E	A

Relinquished By:	Date/Time	Received By:	Date/Time
	1/9/25 1588	Romcomack	1.10.25 1000
Romeo Mack/Pace	1.10.25 1130	Buffalo S/C	1.10.25 1130
Russell B. Bisby	1-10-25 15:25		1/11/25 0030

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)

ATTACHMENT 2

FLOW METER CALIBRATION DATA

Cold Spring Environmental
3248 Buffalo Rd., Varysburg, N.Y. 14167
Ph: 716-863-7052

January 17, 2024

Roux
Att. Rick Dubisz
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

Ref: Flow Meter Calibration

Dear Mr. Dubisz,

Calibration Date: January 11, 2024
Site location: River Bend Pretreatment Building, 192 Baraga St.
Equipment Model:Signet GF 8550
Equipment type: Closed Pipe impellor
Equipment S/N: 60210142061
Impellor Model: P51530-P0
Impellor: S/N 60305023102
Measuring device: 3 inch PVC pipe
Output type: 4-20mA
Totalizer multiplier: 1 gallon

Displayed level/flow rate: 0 GPM
Measured Level/flow rate: 0 GPM
Displayed level/flow rate: 27-28 GPM
Measured Level/flow rate: 27-28 GPM
Percent Difference: 0%
Adjustment: no
Note: Reset the totalizer to zero

Please contact me with any questions.

Sincerely, Jon Wolak

716-863-7052
jonwolak@yahoo.com

APPENDIX D

AREA I

INTRUSIVE PROJECT(S) DOCUMENTATION
PROVIDED BY TRC ENVIRONMENTAL CORPORATION
INCLUDING CHANGE OF USE FORMS AND IMPORT REQUESTS

1090 Union Road, Suite 280
West Seneca, NY 14224
T 716.204.9543
TRCcompanies.com

June 25, 2025

Mr. Richard L. Dubisz
Senior Scientist II
Roux Associates, Inc.
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

Re: RiverBend/Tesla (VCP Site No. V00619)
Project Summaries – May 1, 2024 to May 1, 2025 Certifying Period (Revised)
Buffalo, NY 14220

Dear Mr. Dubisz:

This letter (and attached supporting documentation) has been prepared and submitted on behalf of Tesla Inc. for seven (7) separate intrusive projects performed at the Tesla Gigafactory 2 Site located in Buffalo, New York during the current Periodic Review Report (PRR) certification period (May 1, 2024 through May 1, 2025). The Tesla Site is also known as the RiverBend (aka Steelfields) Area I Site which is a NYSDEC Voluntary Cleanup Program (VCP) Site (No. V00619) currently being monitored by Roux Environmental Engineering and Geology, D.P.C (Roux) on behalf of the property owner Fort Schuyler Management Company (FSMC) (see **Figure 1**).

The seven (7) projects included:

- Lot 2, Gate 1 Sidewalk Installation – June 19, 2024
- Perimeter Fence Installation (Phase 2) – August 1, 2024
- Fiber Optic Cable (South Park) Installation – September 26, 2024
- East Gate Concrete Swale – October 21-22, 2024
- Digital Display Board Installation – November 7-8, 2024
- Spoils Stockpile & Drilling Mud Waste Characterization – July 9, 2024 and October 1, 2024
- Perimeter Fence Repairs – March 12, 2025

INTRODUCTION

The listed projects were performed between August 2024 to March 2025 in accordance with the NYSDEC-approved Site Management Plan (SMP) (revised September 2021) for Area I of the former Steelfields (aka RiverBend, LLC) Site, and the NYSDEC-approved Excavation Work Notifications prepared for each project. During each of these projects, various intrusive activities penetrated the existing final cover system (and demarcation layer) which, depending on the scope of the project, required TRC oversight, NYSDEC notification, completion of a *Change-of-Use (COU)* Form, and/or completion of an *Import Request Form*. Required documentation associated with each project is identified in the project descriptions below. The following attachments to this report include:

- Attachment 1: NYSDEC Acknowledgements and Approvals
- Attachment 2: Representative Project Photographs
- Attachment 3: COU Forms
- Attachment 4: Import Request Forms
- Attachment 5: Community Air Monitoring Plan (CAMP) Documentation
- Attachment 6: TRC's *Waste Characterization & Radiological Screening Summary Report (revised November 4, 2024)*

An updated final cover system map showing the location of each project is attached as **Figure 2**. A COU Form and Import Request Form were only required for the Lot 2, Gate1 Sidewalk Installation and East Gate Concrete Swale projects.

SOIL/FILL/SLAG SPOILS MANAGEMENT & DISPOSAL

The subsurface material observed beneath the demarcation layer during each project was generally described as soil/fill/slag which is characterized as mostly soil intermixed with small particles of slag (2 inches and smaller), brick, iron ore, limestone, gravel, and/or sand. Large volumes of slag were not identified. When encountered during each project, soil/fill/slag spoils excavated from beneath the existing cover system and demarcation layer were field screened using a handheld MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp for volatile organic compounds (VOCs) and a Ludlum 2241-2 RK Ratemeter/Scaler equipped with a Detector 2 (44-2 gamma scintillator probe) for gamma radiation along with visual/olfactory observations in accordance with the SMP, Excavation Work Notification, and NYSDEC Department of Materials Management (DMM) policy DMM-5: *Management of Soils Contaminated with Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM)*. When generated and following satisfactory field screening during each project, subsurface soil/fill/slag spoils were transported and temporarily staged on and covered with polyethylene plastic tarps on the western portion of the Tesla Site at a location hereafter referred to as the Spoils Stockpile (see **Figure 2**). No grossly impacted (i.e., elevated PID readings, visible product impacts, olfactory evidence of impact, or elevated radiation counts) soil/fill/slag beneath the existing final cover and demarcation layer were encountered and/or observed during any of the projects described herein.

The Spoils Stockpile was maintained by TRC personnel during the 2024-25 winter shutdown, which included periodic visual monitoring and maintenance of the Stockpile plastic cover for damage and weather-related runoff from the stockpile; repairs and/or replacement of polyethylene tarp cover activities were performed as needed during this period. No runoff of stockpiled material was observed during this period.

COMMUNITY AIR MONITORING

Continuous community air monitoring was performed at an upwind and downwind location during each Tesla Site (Area I) activity involving disturbance of subgrade soil/fill/slag material beneath the existing final cover and demarcation layer in accordance with the SMP and project-specific Excavation Work Notification. Per the SMP, CAMP action limits of 100 micrograms per cubic meter (ug/m^3) for respirable particulates, 5 parts per million (ppm) for organic vapors, and a radiological activity threshold of 12,000 counts per minute (CPM) (approximately two times established background) were utilized. CAMP monitoring was not performed during Spoils Stockpile and/or Drilling Mud waste characterization sampling.

A summary of CAMP monitoring for each project, including the date and duration of monitoring, is presented in **Table 1** (attached). The 15-minute time weighted average (TWA) for particulate and VOC CAMP field data recorded during each project described herein, are plotted versus time, and are provided in **Attachment 5**. Due to the size of the electronic file, the raw data can be provided upon request. No exceedances of the 15-minute TWA thresholds were recorded during intrusive activities.

LOT 2, GATE 1 SIDEWALK INSTALLATION

Lot 2, Gate 1 Sidewalk Installation activities included installation of an 8-foot wide by 75-foot-long concrete sidewalk from the Parking Lot 2 to South Park Avenue (see **Figure 2**). Project work included removing a section of topsoil cover soils and installation of a gravel subbase and concrete walkway. This project penetrated the final cover topsoil but did not penetrate the demarcation layer, however it substantively changed the use of the cover system within the project area of Site. As such, a required COU Form was submitted to NYSDEC prior to beginning this project. This project also required the import of off-site gravel material, so an Import Request Form was also completed and submitted to the Department for approval. Existing cover soils (approximately 1-foot thick) were temporarily segregated, cast aside, and reused to landscape the disturbed areas upon completion. Excess topsoil cover material was transported to the existing on-site topsoil stockpile (from other on-site projects), located at the rear of the Tesla property. The excavated area was backfilled with 6-inches of 2-inch crusher run gravel material followed by 4-inches of concrete. Because only the topsoil cover material was disturbed and the depth of the excavation did not advanced beneath the demarcation layer, CAMP monitoring was not required.

NYSDEC correspondence is provided in **Attachment 1,** representative project photographs are provided in **Attachment 2**, the COU Form is provided in **Attachment 3**, and the Import Request Form is provided in **Attachment 4**.

PERIMETER FENCE INSTALLATION (PHASE 2)

Perimeter Fence Installation (Phase 2) activities included installation of approximately 50 linear feet (LF) of powder coated steel fence to terminate the existing Perimeter Fence at the existing Demarc Building for increased security (see **Figure 2**). Project work included excavation of approximately 5 to 6 footings (±8-feet apart) roughly 10-inches in diameter by 36-inches deep. This project penetrated the final cover and demarcation layer at each footing but did not substantively change the use of the cover system within the project area of Site. As such, a COU Form was not required by NYSDEC. Existing cover soils (approximately 1-foot thick) were segregated, cast aside, and reused to landscape the disturbed areas upon completion. Approximately ±5 cubic yards (CYs) of soil/fill/slag material were excavated from beneath the demarcation layer and transported to the on-site Spoils Stockpile. Each excavated footer was backfilled with concrete, so an Import Request Form was not required. Stockpiled topsoil from other on-site projects located at the rear of the Tesla property was used to supplement final landscaping of the disturbed areas. This topsoil was already approved by the Department, so an Import Request Form was not required.

NYSDEC correspondence is provided in **Attachment 1** and representative project photographs are provided in **Attachment 2**.

FIBER OPTIC CABLE (SOUTH PARK) INSTALLATION

Fiber Optic Cable (South Park) Installation activities included installation of a high-speed internet fiber optic line from South Park Avenue to the on-site Demarc Building (approximately 100-feet) (see **Figure 2**). Project work included the excavation of two pits approximately 2-feet wide by 3-feet long by 3-feet deep to facilitate directional boring equipment operation. This project penetrated the final cover and demarcation layer at each pit but did not substantively change the use of the cover system within the project area of Site. As such, a COU Form was not required by NYSDEC. Existing cover soils (approximately 1-foot thick) were segregated, cast aside, and reused to landscape the disturbed areas upon completion. Approximately ±5 CYs of soil/fill/slag material beneath the demarcation layer were excavated and transported to the Spoils Pile at the back of the Tesla Site. Each excavated pit was backfilled with excess topsoil stockpiled on the Tesla property from other projects. This topsoil was already approved by the Department, so an Import Request Form was not required.

NYSDEC correspondence is provided in **Attachment 1** and representative project photographs are provided in **Attachment 2**.

EAST GATE CONCRETE SWALE

East Gate Concrete Swale activities included additional modification to the existing East Sliding Gate, the majority of which was completed in 2023 as a gravel covered swale. This project modification and work activities included installation of a concrete curb beneath the project area fence posts with a finished concrete swale (and curbing) beneath the gate (see **Figure 2**). This project penetrated the existing final cover material and the demarcation layer which substantively changed the use of the cover system within the project area of Site. As such, a required COU Form was submitted to NYSDEC prior to beginning this project. This project also required the import of off-site gravel material, so an Import Request Form was completed and submitted to the Department for approval. Existing adjacent cover soils (approximately 1-foot thick) were segregated and cast aside to accommodate placement of additional subbase gravel, then reused to landscape the disturbed areas upon completion. Approximately ±2 CYs of soil/fill/slag material beneath the demarcation layer were excavated and transported to the Spoils Pile at the back of the Tesla Site.

The following material was approved by the Department for import to the Site:

- **2-inch Crusher Run** was used for subbase beneath the final concrete curbing. This product consisted of gravel, rock, or stone from virgin material obtained from a NYSDEC-permitted quarry with less than 10% (by weight) passing the No. 100 sieve, therefore laboratory analysis was not required. **NYSDEC import approval was received on October 8, 2024.**

NYSDEC correspondence is provided in **Attachment 1,** representative project photographs are provided in **Attachment 2**, the COU Form is provided in **Attachment 3**, and the Import Request Form is provided in **Attachment 4**.

DIGITAL DISPLAY BOARD INSTALLATION

Digital Display Board Installation activities included the installation of a ±4-foot by ±7.5-foot digital display board along the main entrance to the Tesla Facility (see **Figure 2**). Project work included excavation of a shallow electrical conduit trench approximately 6-inches deep by 115-feet long from the guard shack panel to the display board location. The display board was mounted to two 4-inch by 4-inch vertical posts (±7-feet apart) installed approximately ±36-inches deep. This project penetrated the final cover and demarcation layer at each footing but did not substantively change the use of the cover system within the project area of Site. As such, a Change-of-Use Form was not required by NYSDEC. Existing cover soils (approximately 1-foot thick) were segregated, cast aside, and reused to landscape the disturbed areas upon completion. Approximately ±5 cubic yards (CYs) of soil/fill/slag material beneath the demarcation layer were excavated and transported to the Spoils Pile at the back of the Tesla Site. Each excavated footer was backfilled with concrete, so an Import Request Form was not required. Segregated topsoil was also used to backfill the electrical conduit trench. Stockpiled topsoil from other on-site projects located at the rear of the Tesla property was used to supplement final landscaping of the disturbed areas. This topsoil has already been approved by the Department, so an Import Request Form was not required.

NYSDEC correspondence is provided in **Attachment 1** and representative project photographs are provided in **Attachment 2**.

SPOILS STOCKPILE & DRILLING MUD WASTE CHARACTERIZATION

On July 9, 2024 and again on October 1, 2024, TRC collected representative waste characterization soil samples from the Spoils Stockpile located at the back of the Tesla Site. On July 9, 2024, TRC's radiological support subcontractor, PSH, LLC (PSH), performed a radiological survey of the Spoils Stockpile. TRC's *Waste Characterization & Radiological Screening Summary Report (revised November 4, 2024)* included the analytical and radiological results which were submitted to the NYSDEC for their review (see **Attachment 6**). Also in this Report, TRC requested the NYSDEC and NYSDOH approve re-use of the Spoils Stockpile and Drilling Mud material constructed as an earthen berm to act as a visual marker along the underground Fiber Optic (South) alignment (see **Figure 2**). In a letter dated November 18, 2024, the NYSDEC stated that based on the radiological results, the Spoils Stockpile and Drilling Mud material is not TENORM, and the Department approved construction of the earthen berm. In a follow-up email dated November 20, 2024, the Department required the berm design be certified by a NYS Professional Engineer (PE) and that the SMP be updated to include the earthen berm.

As reported in the May 2024 Periodic Review Report (PRR, revised August 2024) (May 1, 2023 to May 1, 2024 certifying period) prepared by Roux, a soil/fill pile (approximately ±12 CYs) was generated in the southwest corner of RiverBend Area III, along the drainage ditch/property line (see **Figure 2**). The pile was generated during excavation activities performed by the Buffalo & Pittsburgh Railroad, to clean the drainage ditch affected by flooding along the railroad's vehicle service road. A sample of the soil/fill was collected by Roux personnel in September 2023 and submitted to Alpha Analytical, Inc. (now Pace Analytical Services) for waste characterization analysis via TCLP VOCs, TCLP SVOCs, TCLP Metals, PCBs and ICR (Ignitibility, Corrosivity & Reactivity). Results of the sample indicated the soil/fill material is non-hazardous. Following the 2024 PRR submittal, the NYSDEC requested a TENORM assessment of the soil/fill material which was subsequently performed by Roux (and their radiological subcontractor MJW Corporation Inc.) in August 2024. In an email dated December 11, 2024, and following review of the waste characterization analytical

data and TENORM screening results, the Department determined that the Area III soil/fill material was not TENORM. As such, FSMC and Tesla agreed that the Area III soil/fill material could be blended with the Spoils Stockpile and used to construct an earthen berm along the Fiber Optic Cable (South) alignment. In a February 19, 2025 email to Roux, the Department approved this action. As of the date of this letter, the soil/fill pile remains in the southwest corner of RiverBend Area III, awaiting earthen berm construction to begin.

On May 14, 2025, TRC's PE-certified earthen berm design was submitted to the NSYDEC as part of TRC's *Excavation Notification for Spoils Pile Re-Use & Berm Design* for Department review and approval. NYSDEC's approval is anticipated although pending. Department correspondence and approvals are included in **Attachment 1**.

PERIMETER FENCE REPAIRS

Perimeter Fence Repair activities were performed on a small section of Perimeter Fence along South Park Avenue in front of the Tesla facility to repair recent vehicle damage in that area (see **Figure 2**). Project work included removal of 3 existing fence post foundations followed by re-excavation of 3 new footings (±8-feet apart) roughly 10-inches in diameter by 36-inches deep. This project penetrated the final cover and demarcation layer at each footing but did not substantively change the use of the cover system within the project area of Site. As such, a Change-of-Use Form was not required by NYSDEC. Existing cover soils (approximately 1-foot thick) were segregated, cast aside, and reused to landscape the disturbed areas upon completion. Due to the winter weather conditions at the time of the repairs, additional topsoil (and re-seeding) was required in the Spring of 2025. Approximately ±2 CYs of soil/fill/slag material beneath the demarcation layer were excavated and transported to the Spoils Pile at the back of the Tesla Site. Each excavated footer was backfilled with concrete, so an Import Request Form was not required. Stockpiled topsoil from other on-site projects located at the rear of the Tesla property was used to supplement final landscaping of the disturbed areas. This topsoil has already been approved by the Department, so an Import Request Form was not required.

NYSDEC correspondence is provided in **Attachment 1** and representative project photographs are provided in **Attachment 2**.

CERTIFICATION

I, Kevin Sullivan, certify that I am currently a NYS registered professional engineer and that the activities and subsequent final cover restoration described in this Summary Report were performed in accordance with the current Site Management Plan (SMP) the respective Excavation Notifications received and acknowledged by the NYSDEC.

Signature: _____

Date: June 25, 2025

Name: Kevin D. Sullivan, P.E.
License Number: 073712
Title: Principal Engineer
TRC

CONCLUSION

We trust that the information provided will satisfy the requirements of the NYSDEC for the upcoming PRR submittal. Please contact us if you have any questions or require additional information.

Sincerely,
TRC Environmental Corporation

Bryan C. Hann, P.G. (NY)

TRC Project #643451.0000.0000

Figures
Attachments

TABLES

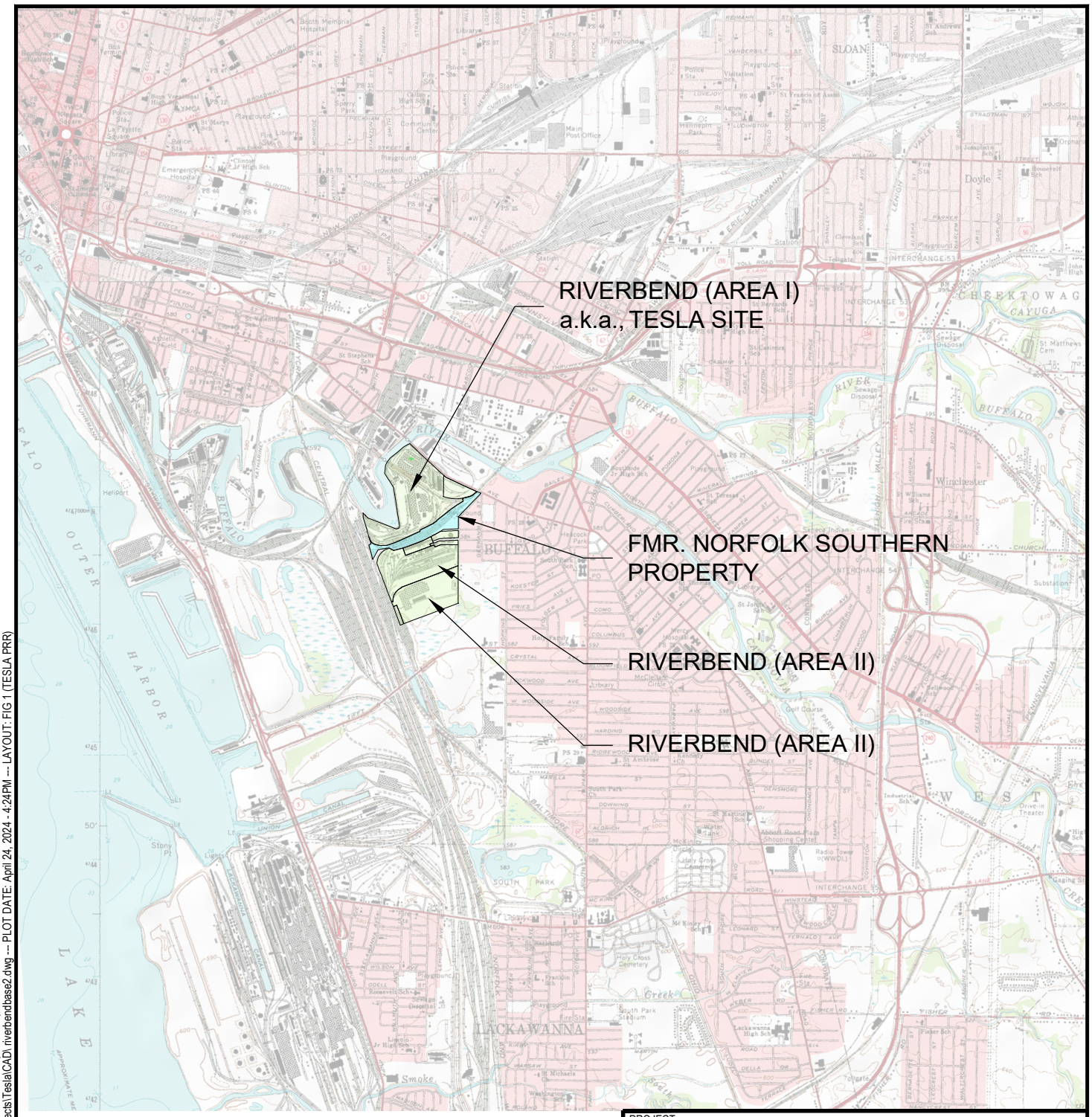
TABLE 1

CAMP MONITORING SUMMARY

Periodic Review Report
Certifying Period May 1, 2024 through May 1, 2025
RiverBend (Steelfields) Area I Site (aka, Tesla Site)
NYSDEC Site No. V00619
Buffalo, New York

Project	CAMP	CAMP Date & Time	
		Start	End
Perimeter Fence Installation (Phase II)			
Downwind	Day 1	8/1/2024, 9:33 AM	8/1/2024, 11:59 AM
Upwind	Day 1	8/1/2024, 9:31 AM	8/1/2024, 11:55 AM
Fiber Optic Cable (South Park) Installation			
Downwind	Day 1	9/26/2024, 10:34 AM	9/26/2024, 2:42 PM
Upwind	Day 1	9/26/2024, 9:33 AM	9/26/2024, 2:44 PM
East Gate Concrete Swale			
Downwind	Day 1	10/21/2024, 8:20 AM	10/21/2024, 2:07 PM
	Day 2	*not required*	*not required*
Upwind	Day 1	10/21/2024, 8:13 AM	10/21/2024, 2:03 PM
	Day 2	*not required*	*not required*
Digital Display Board Installation			
Downwind	Day 1	11/7/2024, 7:56:00 AM	11/7/2024, 3:16:00 PM
	Day 2	11/8/2024, 8:24:00 AM	11/8/2024, 11:47:00 AM
Upwind	Day 1	11/7/2024, 7:46:00 AM	11/7/2024, 3:09:00 PM
	Day 2	11/8/2024, 8:15:00 AM	11/8/2024, 11:41:00 AM
Perimeter Fence Repairs			
Downwind	Day 1	3/12/2025, 8:33 AM	3/12/2025, 9:36 AM
Upwind	Day 1	3/12/2025, 8:40 AM	3/12/2025, 9:43 AM

FIGURES



N

4000' 0' 4000' 8000'

SCALE: 1 INCH = 4000 FEET
SCALE IN FEET
(approximate)

PROJECT:
PERIODIC REVIEW REPORT
RIVERBEND (FKA STEELFIELDS) - AREA I (TESLA SITE)
BUFFALO, NEW YORK

TITLE:
SITE LOCATION & VICINITY MAP

DRAWN BY:	BCH	PROJ NO.:	568713.0000.0000
CHECKED BY:	BCH		
APPROVED BY:	BCH		**FIGURE 1**
DATE:	APRIL 2024		

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

8.5x11 -- USER: BHann -- ATTACHED XREFS: Buff_7_7_REV; SOLAR CITY BUILDINGS -- ATTACHED IMAGES: Hospital Route Map; RB TOPO
DRAWING NAME: C:\Users\BHann\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg -- PLOT DATE: April 24, 2024 - 4:24PM -- LAYOUT: FIG 1 (TESLA PRR)
Version: 2017-10-21

LEGEND:

- PROPERTY BOUNDARY OF AREAS I, II, & III
- RIVERBEND SITE (AREAS I & II, SHOWN)
- BUILDING
- A1-MW-2 NETWORK MONITORING WELL
- 3 TESLA PARKING LOT DESIGNATION
- 115-34.5 kV ELECTRIC SUB-STATION
- STONE-LINED BIORETENTION AREA
- A. GREEN SPACE COVER
- B. ASPHALT COVER
- B. ASPHALT COVER INSTALLED IN 2021
- C. CONCRETE SLAB ON-GRADE BUILDING COVER
- D. EXTERIOR CONCRETE COVER
- E. DRIP STONE, NO. 1 STONE, & NO. 2 CRUSHER RUN STONE COVER
- F. BIO-RETENTION COVER
- G. SYNTHETIC TURF COVER
- H. AREA II CONTAINMENT CELL - GEOSYNTHETIC & SOIL COVER

2024 LOT 2, GATE 1 SIDEWALK

2024 PERIMETER FENCE REPAIRS

2024 PERIMETER FENCE PHASE 2

2024 FIBER OPTIC (SOUTH PARK)

2023 FIBER OPTIC (NORTH)

2024 DIGITAL DISPLAY BOARD AREA

2024 EAST GATE SWALE AREA

APPROX. LOCATION OF DRILLING FLUID ROLL-OFF CONTAINERS

PLANNED BERM (CYAN COLOR)
(± 16.0 FT WIDE x ±4.0 FT. HIGH x ±1,985 FT. LONG)

2024 FIBER OPTIC (SOUTH)

MAY 2022 NYSDEC-APPROVED TOPSOIL PILE

SPOILS STOCKPILE

BUFFALO RIVER

GRAVEL LOT

VISITOR

AREA I
(FORMERLY REPUBLIC STEEL PLANT PARCEL)

TESLA PLANT BUILDING

TENORM VARIANCE AREA

FMR. NORFOLK SOUTHERN PROPERTY

FMR. AUGUST FEINE & SONS, CO.

115-34.5 kV ELECTRIC SUB STATION

AREA II
(FORMERLY DONNER-HANNA COKE PLANT PARCEL)

AREA II CONTAINMENT CELL
(± 13.91 ACRES)

BERM AREA

SOUTH PARK AVE

O CONNOR AVE

BARACA ST

AMELIA ST

ABBOTT ST

BEACON ST

SCALE: 1 INCH = 350 FEET
SCALE IN FEET
(approximate)

350' 0' 350' 700'

PROJECT:
PERIODIC REVIEW REPORT
RIVERBEND (FKA STEELFIELDS) - AREA I (TESLA SITE)
BUFFALO, NEW YORK

TITLE:
EXISTING COVER SYSTEM

DRAWN BY:	BCH	PROJ NO.:	643451.0000.0000
CHECKED BY:	BMG		**FIGURE 2**
APPROVED BY:	BCH		
DATE:	MAY 2025		

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

DRAWING NAME: C:\Users\BHann\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg -- PLOT DATE: June 19, 2025 - 2:56PM -- LAYOUT: FIG 2 (TESLA PRR 2025)

XREF: ..\GEN_Base ... ATTACHED XREFS: SLA_1.DWG, SOLAR CITY BUILDING ... ATTACHED IMAGES: Image Base.tiff

Version: 2017-10-21

ATTACHMENT 1

NYSDEC
ACKNOWLEDGEMENTS & APPROVALS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

June 14, 2024

Robert Pratt
Tesla
1339 South Park Avenue
Buffalo, New York 14220

Dear Robert Pratt:

Change of Use Notification
Steelfields (aka Riverbend), V00619

This letter acknowledges receipt of your June 13, 2024 60-Day Advance Notification of Change of Use for the above referenced site in accordance with 6 NYCRR 375-1.11(d). This acknowledgement is not intended to imply approval or concurrence with the proposed change of use. Please note these activities in the next PRR. If you have any questions or need additional information, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK/ds

ec: Thomas Alfieri, SUNY Polytechnic Institute
Rick Dubisz, Roux Inc.
Bryan Hann, TRC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

June 17, 2024

Bryan Hann
TRC
1090 Union Road, Suite 280
West Seneca, New York 14224

Dear Bryan Hann:

Site Management (SM)
Import Request
Steelfields (aka Riverbend), Buffalo
Erie County, Site No.: **V00619**

The Department has reviewed your request received June 14, 2024 to import approximately 70 cubic yards of 2" clean limestone from County Line Stone Company, Inc. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK/ds

ec: Rob Pratt, Tesla
Ken Gebrosky, Tesla
Rick Dubisz, Roux Inc.

Hann, Bryan

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, July 19, 2024 9:16 AM
To: Hann, Bryan; Kulow, Kristin (HEALTH)
Subject: RE: [EXTERNAL] Fence Install - Steelfields (V00619)

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ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Bryan –

Thank you for the construction details. Please proceed as noted below and once a determination is made on the swale final cover, please let me know.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |
NEW YORK STATE | Department of Environmental Conservation

From: Hann, Bryan <BHann@trccompanies.com>
Sent: Friday, July 19, 2024 9:08 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: [EXTERNAL] Fence Install - Steelfields (V00619)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning, Megan!

Tesla GFNY is planning to complete the Perimeter Fance Project (Phase 2) this month. This project will penetrate the existing final cover and demarcation layer at each fence post footing will not substantively change the use of the cover system within the project area, so a COU Form is not required. In addition, this project will not require the import of off-site material, so an Import Request Form is not required.

A detailed description of the planned work is provided below:

- **Perimeter Fence Phase 2 Project** (see attached). Project activities will include installation of approximately 50 linear feet (LF) of powder coated steel fence in the vicinity of the Demarc Building (near the main entrance) for increased security. Approximately 5 to 6 new footings (±8-feet apart) will be hand excavated roughly 10-inches in diameter by 36-inches deep. Existing cover soils (approximately 1-foot thick) will be segregated and reused to landscape the disturbed areas upon completion. Excavated subsurface soil/fill spoil material from beneath the existing final cover and demarcation layer will be placed on polyethylene tarps during footing excavation and then transported to the on-site Spoils Stockpile. Each excavated footer will be backfilled with concrete. Stockpiled topsoil from other on-site projects located at the rear of the Tesla property may be used to supplement final landscaping of the disturbed areas, as necessary. Because this topsoil was already approved by the NYSDEC, an Import Request Form for the topsoil is not required.

During intrusive work activities performed for this project, TRC will implement the community air monitoring program (CAMP) at an upwind and downwind location in accordance with the SMP and NYSDEC/NYSDOH requests. Excavation spoils will be screened by TRC field personnel using a handheld photoionization detector (PID) equipped with a 10.6 eV lamp for volatile organic compounds (VOCs) and a Ludlum 2241-2 RK Ratemeter/Scaler equipped with a Detector 2 (44-2 gamma scintillator probe) for gamma radiation along with visual/olfactory observations in accordance with the SMP and NYSDEC Draft Guidance DMM-5; *Management of Soils Contaminated with TENORM*. Appropriate actions will be taken if field screening indicates exceedances of the SMP (and DMM-5) thresholds. Soil/fill spoil quantities will be estimated and a brief report, including field observations, screening results, and representative project photographs, will be prepared for the annual Periodic Review Report (PRR).

If soil/fill spoils are determined to be grossly impacted (i.e., elevated PID readings, visible product impacts, olfactory evidence of impact, elevated radiation counts), the soil/fill spoils will be segregated from project generated spoils and staged separately. Appropriate soil/fill characterization sampling, waste profile approvals, off-site disposal arrangements, and NYSDEC notifications will be completed by TRC.

This project will adhere to the SMP, the Excavation Work Notification (dated April 12, 2023), TRC's site-specific Health and Safety Plan (HASP), and NYSDEC's Draft DMM-5.
Additionally, TRC will be providing full-time environmental oversight during all intrusive activities for this project.

Feel free to call me with any questions.

Bryan C. Hann, P.G.
Senior Geologist / Project Manager

TRC
1090 Union Road, Suite 280, West Seneca, NY 14224
C 716.870.1165 | BHann@TRCcompanies.com
LinkedIn | Twitter TRCcompanies.com

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, July 12, 2024 7:54 AM
To: Hann, Bryan <BHann@trccompanies.com>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: [EXTERNAL] Fence Install - Steelfields (V00619)

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Kristin – Attached are the details about the intrusive work for your records.

Bryan – In a separate email, Kristin indicated CAMP will need to be utilized for these activities. If you can share your typical excavation notification with me, I will send out an approval letter today.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Kuczka, Megan E (DEC)
Sent: Wednesday, July 10, 2024 7:52 AM
To: Hann, Bryan <BHann@trccompanies.com>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: [EXTERNAL] Fence Install - Steelfields (V00619)

Kristin –

Steelfields is looking to begin the activities noted below and would like your thoughts on if CAMP is required. Could you please let us know your thoughts today?

Thanks in advance,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Kuczka, Megan E (DEC)
Sent: Friday, June 28, 2024 12:41 PM
To: Hann, Bryan <BHann@trccompanies.com>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: [EXTERNAL] Fence Install - Steelfields (V00619)

Bryan – Thank you for providing additional details on the perimeter fence install and east gate swale for Steelfields (V00619).

Kristin – Bryan had a question regarding utilizing CAMP for the fence installation. Per the attached document, a 50 foot section of fence is proposed to be installed within the VCP boundary. Five to six post holes will be hand dug to a depth of

three to four feet. TRC will be onsite to oversee these activities and will be screening with a PID. Do you think it is necessary to have CAMP for this minor excavation?

Thanks in advance,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Hann, Bryan <BHann@trccompanies.com>
Sent: Friday, June 28, 2024 12:33 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Subject: RE: [EXTERNAL] Fence Install

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Good afternoon, Megan!

Details for both the Perimeter Fence Phase 2 (No. 2 on attached) and East Gate Swale (No. 3 on attached) projects are attached.
LMK if you require additional information.

Thank you.

Bryan C. Hann, P.G.
Senior Geologist / Project Manager

1090 Union Road, Suite 280, West Seneca, NY 14224
C 716.870.1165 | BHann@TRCcompanies.com
LinkedIn | Twitter TRCcompanies.com

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, June 28, 2024 8:30 AM
To: Hann, Bryan <BHann@trccompanies.com>
Subject: [EXTERNAL] Fence Install

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Bryan –

Would you mind sharing the details of the fence install in an email? I'll forward it on to DOH to get their thoughts on CAMP requirements. I'll copy you on the email to DOH as I'm out of the office all next week.

Thanks in advance,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

Hann, Bryan

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Wednesday, October 11, 2023 10:24 AM
To: Hann, Bryan
Cc: Charlie Watson (TESLA); Jon Rioch (TESLA); Caprio, Andrea (DEC)
Subject: RE: [EXTERNAL] RE: Tesla GFNY Site - RiverBend (formerly Steelfields) Area I (V00619)

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Bryan –

CAMP will also be required onsite since excavations are occurring below the cover system. The SMP does not specifically detail what gamma radiation screening is required during onsite excavations. If slag is identified during these or any future activities, please notify me as regulations are changing rapidly regarding radiation. Our newest guidance document, DMM-5, will need to adhered to going forward.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Hann, Bryan <BHann@trccompanies.com>
Sent: Wednesday, October 11, 2023 10:02 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: Charlie Watson (TESLA) <chawatson@tesla.com>; Jon Rioch (TESLA) <jrioch@tesla.com>
Subject: RE: [EXTERNAL] RE: Tesla GFNY Site - RiverBend (formerly Steelfields) Area I (V00619)

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Based on the location of the excavations, I do not believe that slag will be encountered.
Having said that, slag on this Site is always a possibility.

As such and just like with any project performed on this Site, the spoils will be field screened using a handheld PID for VOCs and a Ratemeter/Scaler for gamma radiation along with visual/olfactory observation in accordance with the SMP. Appropriate actions will be taken if field screening indicates exceedances SMP thresholds.

Bryan C. Hann, P.G. (NY)
Senior Geologist / Project Manager

TRC

1090 Union Road, Suite 280, West Seneca, NY 14224
C 716.870.1165 | BHann@TRCcompanies.com
LinkedIn | Twitter | TRCcompanies.com

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Wednesday, October 11, 2023 9:49 AM
To: Hann, Bryan <BHann@trccompanies.com>
Cc: Charlie Watson (TESLA) <chawatson@tesla.com>; Jon Rioch (TESLA) <jrioch@tesla.com>
Subject: [EXTERNAL] RE: Tesla GFNY Site - RiverBend (formerly Steelfields) Area I (V00619)

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Bryan –

Only question I have is if slag has been seen in recent excavations or is anticipated below the cover system?

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Hann, Bryan <BHann@trccompanies.com>
Sent: Wednesday, October 11, 2023 9:03 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: Charlie Watson (TESLA) <chawatson@tesla.com>; Jon Rioch (TESLA) <jrioch@tesla.com>
Subject: Tesla GFNY Site - RiverBend (formerly Steelfields) Area I (V00619)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning, Megan!

Per our conversation, Tesla is planning to install a new fiber optic line along South Park Avenue, into the Tesla Facility, and terminating near the Demark Building (see attached). We are seeking Department approval to excavate two small pits, approximately 2' L x 3' W x 3' deep, to facilitate use of a directional boring machine for this installation. This will of course penetrate the final cover and demarcation layer at each pit but not substantively change the use of the Site. As such, a Change-of-Use Form will not be required. Clean cover soils will be segregated and cast aside to be reused to landscape the disturbed areas. Excavated material beneath the demarcation layer will be temporarily stockpiled and placed on poly sheeting (and covered) at the back of the Tesla facility. This material will be combined with spoils generated during the East Parking Lot Project, which upon completion, will be characterized for off-site disposal. Each excavated pit will be backfilled with excess topsoil stockpiled on the Tesla property from other parking lot projects. This topsoil has already been approved by the Department so and Import Request Form is not required.

This work is slated to begin near the end of this week and will adhere to the SMP, the Excavation Work Notification (dated April 12, 2023), and site-specific HASP. TRC will be providing environmental oversight of this project. Feel free to contact me with any questions or concerns.

Thank you and we look forward to your approval.

Bryan C. Hann, P.G. (NY)
Senior Geologist / Project Manager

1090 Union Road, Suite 280, West Seneca, NY 14224
C 716.870.1165 | BHann@TRCcompanies.com
LinkedIn | Twitter | TRCcompanies.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

October 8, 2024

Robert Pratt
Tesla
1339 South Park Avenue
Buffalo, New York 14220

Dear Robert Pratt:

Change of Use Notification
Steelfields (aka Riverbend), V00619

This letter acknowledges receipt of your October 8, 2024 60-Day Advance Notification of Change of Use for the above referenced site in accordance with 6 NYCRR 375-1.11(d). This acknowledgement is not intended to imply approval or concurrence with the proposed change of use. Please note these activities associated with the east gate swale in the next PRR. If you have any questions or need additional information, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK: ef

ec: Thomas Alfieri, SUNY Polytechnic Institute
Rick Dubisz, Roux Inc.
Bryan Hann, TRC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

October 8, 2024

Bryan Hann
TRC
1090 Union Road, Suite 280
West Seneca, New York 14224

Dear Bryan Hann:

Site Management (SM)
Import Request
Steelfields (aka Riverbend), Buffalo
Erie County, Site No.: **V00619**

The Department has reviewed your request received October 8, 2024 to import approximately 50 cubic yards of 2" crusher run from New Enterprise Stone & Lime Co., Inc. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

MK/ds

ec: Dan Milewski, Tesla
Rick Dubisz, Roux Inc.

Hann, Bryan

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Thursday, October 24, 2024 8:35 AM
To: Hann, Bryan
Cc: Rob Pratt (TESLA)
Subject: [EXTERNAL] RE: Tesla - Digital Display Board Project

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Bryan –

Thank you for providing these additional details. Please proceed with the excavations noted below and notify the Department prior to any additional excavations (vehicle charger relocation, café, etc.).

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Kuczka, Megan E (DEC)
Sent: Wednesday, October 23, 2024 3:18 PM
To: Hann, Bryan <BHann@trccompanies.com>
Cc: Rob Pratt (TESLA) <ropratt@tesla.com>
Subject: RE: Tesla - Digital Display Board Project

Bryan –

Thank you for sending over the excavation notification. I will review tomorrow and will reach out with any questions.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209

P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |
NEW YORK STATE | Department of Environmental Conservation

From: Hann, Bryan <BHann@trccompanies.com>
Sent: Wednesday, October 23, 2024 8:52 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: Rob Pratt (TESLA) <ropratt@tesla.com>
Subject: Tesla - Digital Display Board Project

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning, Megan!

Per your request, this email is an official notification of the Digital Display Board project that is planned for the Tesla Gigafactory New York Site.
A detailed description of the planned work is provided below:

- **Digital Display Board Project:** This project will include installation of a ±4-foot by ±7.5-foot digital display board along the main entrance to the Tesla Facility (see Figure 1). Project work will include excavation of a shallow electrical conduit trench approximately 6-inches deep by 115-feet long from the guard shack panel to the board location. The sign will be mounted to two 4-inch by 4-inch vertical posts (±7-feet apart) installed approximately ±36-inches deep. This project will penetrate the final cover and demarcation layer at each footing but not substantively change the use of the cover system within the project area of Site. As such, a Change-of-Use Form will not be required. Existing cover soils (approximately 1-foot thick) will be segregated and cast aside to be reused to landscape the disturbed areas upon completion. Excavated subgrade soil/fill material beneath the demarcation layer will be combined with the Spoils Stockpile located west of the Tesla building. Each excavated footer will be backfilled with concrete so an Import Request Form will not be required. This project is anticipated to take approximately 2 days to complete.

During any intrusive work activity performed for this project, TRC will implement the community air monitoring program (CAMP) at a downwind and upwind location in accordance with the SMP. Excavation spoils will be screened by TRC field personnel using a handheld photoionization detector (PID) equipped with a 10.6 eV lamp for volatile organic compounds (VOCs) and a Ludlum 2241-2 RK Ratemeter/Scaler equipped with a Detector 2 (44-2 gamma scintillator probe) for gamma radiation along with visual/olfactory observations in accordance with the SMP and NYSDEC DMM-5; *Management of Soils Contaminated with TENORM*. Appropriate actions will be taken if field screening indicates exceedances SMP (and DMM-5) thresholds. Soil/fill spoil quantities will be estimated and a brief report, including field observations, screening results, and representative project photographs, will be prepared for the next annual Periodic Review Report (PRR) for each project.

If soil/fill spoils are determined to be grossly impacted (i.e., elevated PID readings, visible product impacts, olfactory evidence of impact, elevated radiation counts), the soil/fill spoils will be segregated from project generated spoils and staged separately. Appropriate soil/fill characterization sampling, waste profile approvals, off-site disposal arrangements, and NYSDEC notifications will be completed by TRC.

This project will adhere to the SMP, the Excavation Work Notification (dated April 12, 2023), TRC's site-specific Health and Safety Plan (HASP), and NYSDEC's Draft DMM-5. Additionally, TRC will be providing full-time environmental oversight during all intrusive activities of this project.

Feel free to call me with any questions.

Bryan C. Hann, P.G.
Senior Geologist / Project Manager

1090 Union Road, Suite 280, West Seneca, NY 14224
C 716.870.1165 | BHann@TRCcompanies.com
LinkedIn | Twitter TRCcompanies.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials of Management, Bureau of Hazardous Waste and Radiation Management, Radioactive Materials Management Section
700 Delaware Avenue, Buffalo, New York 14209
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

November 18th, 2024

Bryan Hann
Senior Geologist/Project Manager
TRC Environmental Corporation
1090 Union Road, Suite 280
West Seneca, New York 14224

Dear Bryan Hann :

Waste Characterization & Radiological Screening Summary Report
Tesla Gigafactory New York (GFNY) Site (V00619)

This letter is addressing the sampling results for suspected-technologically enhanced naturally occurring radioactive material (TENORM) presented in the Waste Characterization & Radiological Screening Summary Report, dated November 4th, 2024, submitted by TRC Environmental Corporation (TRC) for the Tesla Gigafactory New York (GFNY) Site in Buffalo, New York. The above-referenced report details the radiological screening results for the Spoils Stockpile and Drilling Mud materials generated during various construction activities performed at the Tesla GFNY.

The Department has concluded that the data from the report does not support that the excavated material is TENORM; this conclusion is based on the lack of provenance related to the source(s) of the material, as well comparison to background data. (Please note that the material is considered a solid waste.)

The Waste Characterization & Radiological Screening Summary Report details the intended use for the stockpiled material that was generated during various activities at the Tesla GFNY Site. The desired use for this material is to construct a berm along the alignment of a buried Fiber Optic Cable. The use for the material is approved by the Department since the analytical data does not meet the criteria to be declared as TENORM.

Please feel free to contact me with any comments or questions that you may have at (716)-851-7278 or via email at derick.dietrich@dec.ny.gov

Sincerely,

Derick Dietrich

Derick Dietrich
Environmental Radiation Specialist Trainee 2
Division of Materials Management, Region 9

DD/ds

ec: Patrick Concannon, P.G., Regional Materials Management Supervisor, NYSDEC
Thomas Papura, Environmental Radiation Specialist 3, NYSDEC
Megan Kuczka, Environmental Program Specialist 1, NYSDEC
Rob Pratt, Tesla
Dan Milewski, Tesla,
Brock Greene, TRC Environmental Corporation,

Hann, Bryan

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Wednesday, February 19, 2025 2:10 PM
To: Hann, Bryan
Subject: [EXTERNAL] FW: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

Hey Bryan,
See email below.
Megan & the department accept the proposal of blending our soil pile with the Area I spoils.

Thanks,
Rick

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Wednesday, February 19, 2025 2:05 PM
To: Richard Dubisz <rdubisz@rouxinc.com>
Cc: Tom Alfieri <tom.nycreates@outlook.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

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Rick –

Yes, this approach is acceptable by the Department. Please make sure these activities are noted in the next PRR.

Sincerely,

Megan Kuczka *(she/her/hers)*
Environmental Program Specialist 1

New York State Department of Environmental Conservation
Division of Environmental Remediation
700 Delaware Avenue, Buffalo, NY 14209
(716) 851-7220 | megan.kuczka@dec.ny.gov
dec.ny.gov | | | | Podcast

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Wednesday, February 19, 2025 1:41 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: Tom Alfieri <tom.nycreates@outlook.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

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Hi Megan,
I spoke with Bryan Hann at TRC regarding the Steelfields (aka Riverbend) soil/fill stockpile. We propose transferring the soil pile to Area I, in which the material will be blended with their spoils pile material and then used to construct an "indication" soil berm over and along the fiber optic corridor. The berm would be covered with a demarcation layer followed by 1-foot of NYSDEC -approved topsoil and seeded.

Please contact us and let us know if this is acceptable by the department.

Best Regards,
Rick

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Wednesday, December 11, 2024 9:36 AM
To: Thomas Forbes <tforbes@rouxinc.com>
Cc: Richard Dubisz <rdubisz@rouxinc.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

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Tom –

Our internal RAD Team has reviewed the data and determined that it is not TENORM. Once you've had the chance to discuss with Tesla/Bryan Hann if this material will be re-used or if it is to be disposed of offsite at a different time please let me know. Once its final location is determined, I will let you know if we have any concerns.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Kuczka, Megan E (DEC)
Sent: Tuesday, December 10, 2024 9:17 AM
To: Thomas Forbes <tforbes@rouxinc.com>
Cc: Richard Dubisz <rdubisz@rouxinc.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

Thanks Tom. I'll share this with our RAD team now.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Thomas Forbes <tforbes@rouxinc.com>
Sent: Tuesday, December 10, 2024 9:12 AM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: Richard Dubisz <rdubisz@rouxinc.com>
Subject: Steelfields (aka Riverbend) Site -Soil/fill pile. TENORM and Waste Characterization Data

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Hi Megan,

Thanks for the time this am. Attached please find four files: The PDF termed "Soil Pile Lab data" is the waste characterization report. The remaining files are the MJW rad report, lab data and MSExcel Summary, respectively.

After your rad folks discuss this I'd appreciate it if we can regroup on a plan to economically address this material.

Thank you again ,
Tom

Thomas Forbes, P.E. | Vice President, Principal Engineer, Co-Operations Manager

2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Main: 716-856-0599| Fax: 716-856-0583
Email: tforbes@rouxinc.com | Website: www.rouxinc.com

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From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Tuesday, December 10, 2024 8:52 AM

To: Thomas Forbes <tforbes@rouxinc.com>
Subject: FW: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Alexander Bartels <abartels@mjwcorp.com>
Sent: Wednesday, October 23, 2024 12:20 PM
To: Richard Dubisz <rdubisz@rouxinc.com>
Cc: Paul Koch <pkoch@mjwcorp.com>; Luke Alexander <lalexander@mjwcorp.com>; Forest Shostak <fshostak@mjwcorp.com>; Jack Obermeier <jobermeier@mjwcorp.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

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Rick,

Please see attached report and the word version for your review. When you are comfortable with it, you would then send to NYSDEC (you can cc me) and state you would like this material to be free released to a landfill. If you have any changes let me know, and if you don't, let me know as well. Dr. Dooley is travelling for a today **so this isn't the final version without his approval**, just wanted to get you something to look at. Thank you!

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

THE MJW COMPANIES
Radiological Consulting Professionals and Expert Technical Services

---

From: Alexander Bartels
Sent: Wednesday, October 23, 2024 9:21 AM

To: Richard Dubisz <rdubisz@rouxinc.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Rick,

Can you respond to this email with a brief summary of events of how we ended up here… does Roux Inc. manage the Steelfields site etc. I can just be in the email and I will use the information for the introduction to the report.

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

THE MJW COMPANIES
Radiological Consulting Professionals and Expert Technical Services

---

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Tuesday, October 22, 2024 11:57 AM
To: Alexander Bartels <abartels@mjwcorp.com>
Subject: Re: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Sounds good.
Thanks

Rick Dubisz | Senior Scientist II

ROUX

2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Main: 716-856-0599| Fax: 716-856-0583 Mobile 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Alexander Bartels <abartels@mjwcorp.com>
Sent: Tuesday, October 22, 2024 11:53:17 AM
To: Richard Dubisz <rdubisz@rouxinc.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

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Richard,

Forest and I are attacking this as we speak, the report should be available most likely tomorrow.

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Tuesday, October 22, 2024 10:51 AM
To: Alexander Bartels <abartels@mjwcorp.com>
Subject: Fw: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Hi Alex,
Any update from the lab regarding the sample as per email below?
Client has been asking on the status.
Let me know when you get a chance.
Thanks,

Rick Dubisz | Senior Scientist II

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2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Main: 716-856-0599| Fax: 716-856-0583 Mobile 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Alexander Bartels <abartels@mjwcorp.com>
Sent: Friday, October 4, 2024 12:57 PM
To: Richard Dubisz <rdubisz@rouxinc.com>
Cc: Forest Shostak <fshostak@mjwcorp.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

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Richard,

Will do, see below comment from GEL labs on ETA of report of analysis.

Forest and Alex,

The lab is hoping to have this completed by 10/09

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Friday, October 4, 2024 11:20 AM
To: Alexander Bartels <abartels@mjwcorp.com>
Cc: Forest Shostak <fshostak@mjwcorp.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Alex,
Not a problem. Keep me posted.

Thanks again,
Rick

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Alexander Bartels <abartels@mjwcorp.com>
Sent: Friday, October 4, 2024 11:16 AM
To: Richard Dubisz <rdubisz@rouxinc.com>
Cc: Forest Shostak <fshostak@mjwcorp.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

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Richard,

I apologize, we have not received the results. I am having our Senior RCT reach out to GEL Labs to get an updated ETA. Thanks!

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

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Radiological Consulting Professionals and Expert Technical Services

From: Alexander Bartels
Sent: Friday, October 4, 2024 11:14 AM
To: Richard Dubisz <rdubisz@rouxinc.com>
Cc: Forest Shostak <fshostak@mjwcorp.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Richard,

We just received the sample results yesterday afternoon. I will try to desiminate the information for you asap, and have something for you early next week. If that works for you.

Alexander Bartels
MJW Radiation Safety Officer
Office: (716) 631-8291
Cell: (716) 248-4732

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Friday, October 4, 2024 9:41 AM
To: Alexander Bartels <abartels@mjwcorp.com>
Subject: FW: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

From: Richard Dubisz <rdubisz@rouxinc.com>
Sent: Friday, October 4, 2024 9:40 AM
To: Richard Dubisz <rdubisz@rouxinc.com>
Subject: RE: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Alex,
Any lab results yet regarding the soil/fill pile that was sampled in August. (River Bend) Site Buffalo, NY.

Let me know when you get a chance.

Thanks,
Rick

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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From: Richard Dubisz
Sent: Tuesday, September 3, 2024 3:30 PM
To: Alexander Bartels <abartels@mjwcorp.com>

Cc: David Dooley <ddooley@mjwcorp.com>; eyu@mjwcorp.com; Forest Shostak <fshostak@mjwcorp.com>
Subject: Steelfields (aka Riverbend) Site -Soil/fill pile. Work Authorization Form

Gentlemen,
Attached is our work authorization form for the Steelfields (aka River Bend) Site in Buffalo, NY.
Please contact us if you have any questions.

Best Regards,
Rick

Rick Dubisz | Senior Scientist II
2558 Hamburg Turnpike, Suite 300, Buffalo, New York 14218
Main: 716-856-0599| Mobile: 716-998-4334
Email: rdubisz@rouxinc.com | Website: www.rouxinc.com

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ATTACHMENT 2

REPRESENTATIVE PROJECT PHOTOGRAPHS

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1. Removal of topsoil cover material.

Photo 2. Removal of topsoil cover material.

Photo 3. Completed topsoil removal.

Photo 4. Completed topsoil removal.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5. Placement of 2-inch crusher run gravel backfill subbase.

Photo 6. Placement of steel mesh prior to concrete placement.

Photo 7. Concrete placement.

Photo 8. Completed Lot 2, Gate 1 sidewalk area.

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

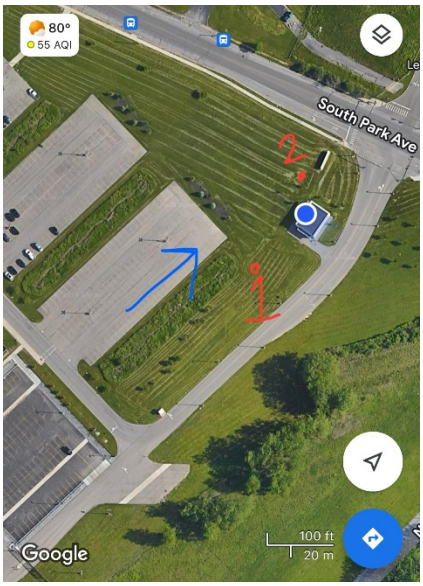


Photo 1. Excavation of fence post hole.

Photo 2. Excavated post hole.

Photo 3. Fence panel installed.

Photo 4. Upwind (1) and downwind (2) CAMP locations during excavation activities.

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1. Upwind CAMP location; intrusive work in background.

Photo 2. Downwind CAMP location; intrusive work in background.

Photo 3. Excavation of daylight pit adjacent to Demarc Building (at left).

Photo 4. Excavation of entry pit adjacent to South Park Avenue.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5. Daylight pit, waiting for directional boring machine rods to daylight.

Photo 6. Backfilling entry pit.

Photo 7. Site restoration around entry pit.

Photo 8. Backfilling and site restoration around daylight pit.

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1. Upwind CAMP location.

Photo 2. Downwind CAMP location.

Photo 3. Excavation of East Gate Swale area.

Photo 4. Excavation of East Gate Swale area.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5. Completion of gravel subbase material.

Photo 6. Completion of gravel subbase material.

Photo 7. Completion of concrete swale and curbing.

Photo 8. Completion of concrete swale and curbing.

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1. Upwind CAMP location.

Photo 2. Downwind CAMP location.

Photo 3. Conduit trench excavation with trenching machine.

Photo 4. Conduit trench excavation with trenching machine.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5. Air-knife excavation of display board post holes.

Photo 6. Air-knife excavation of display board post holes (right) and backfilled conduit trench.

Photo 7. Rebar supports and conduit for display board.

Photo 8. Completed display board.

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1. Removal of damaged fence posts.

Photo 2. Removal of damaged fence post concrete.

Photo 3. Completed new fence post installation.

Photo 4. Completed new fence post installation.

ATTACHMENT 3

CHANGE-OF-USE FORMS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Steelfields Site (aka RiverBend) - Area I **DEC Site ID No.** V00619-9

II. Contact Information of Person Submitting Notification:

Name: Robert Pratt (Tesla)

Address1: 1339 South Park Avenue

Address2: Buffalo, NY 14220

Phone: 716.342.9075 E-mail: ropratt@tesla.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- ☐ Change in Ownership or Change in Remedial Party(ies)
- ☐ Transfer of Certificate of Completion (CoC)
- ☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Jun 19, 2024

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Work activities will include installation of a 8-foot wide by 75-foot long concrete sidewalk from the Parking Lot 1 to South Park Avenue (see Figures 1, 2, and 3). This project will include removing a section of topsoil ~~cover soils and installation of a gravel subbase and concrete walkway. This project will not penetrate the~~ demarcation layer but will substantively change the use of the cover system within the project area of Site. ~~As such, a Change-of-Use Form is required.~~

V. Certification Statement: Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VI. Contact Information for New Owner, Remedial Party, or CoC Holder: If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: TRC Environmental Corporation (Bryan Hann, P.G. (NY))

Address1: 1090 Union Road, Suite 280

Address2: West Seneca, NY 14224

Phone: 716.870.1165 E-mail: bhann@trccompanies.com

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

_____

(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

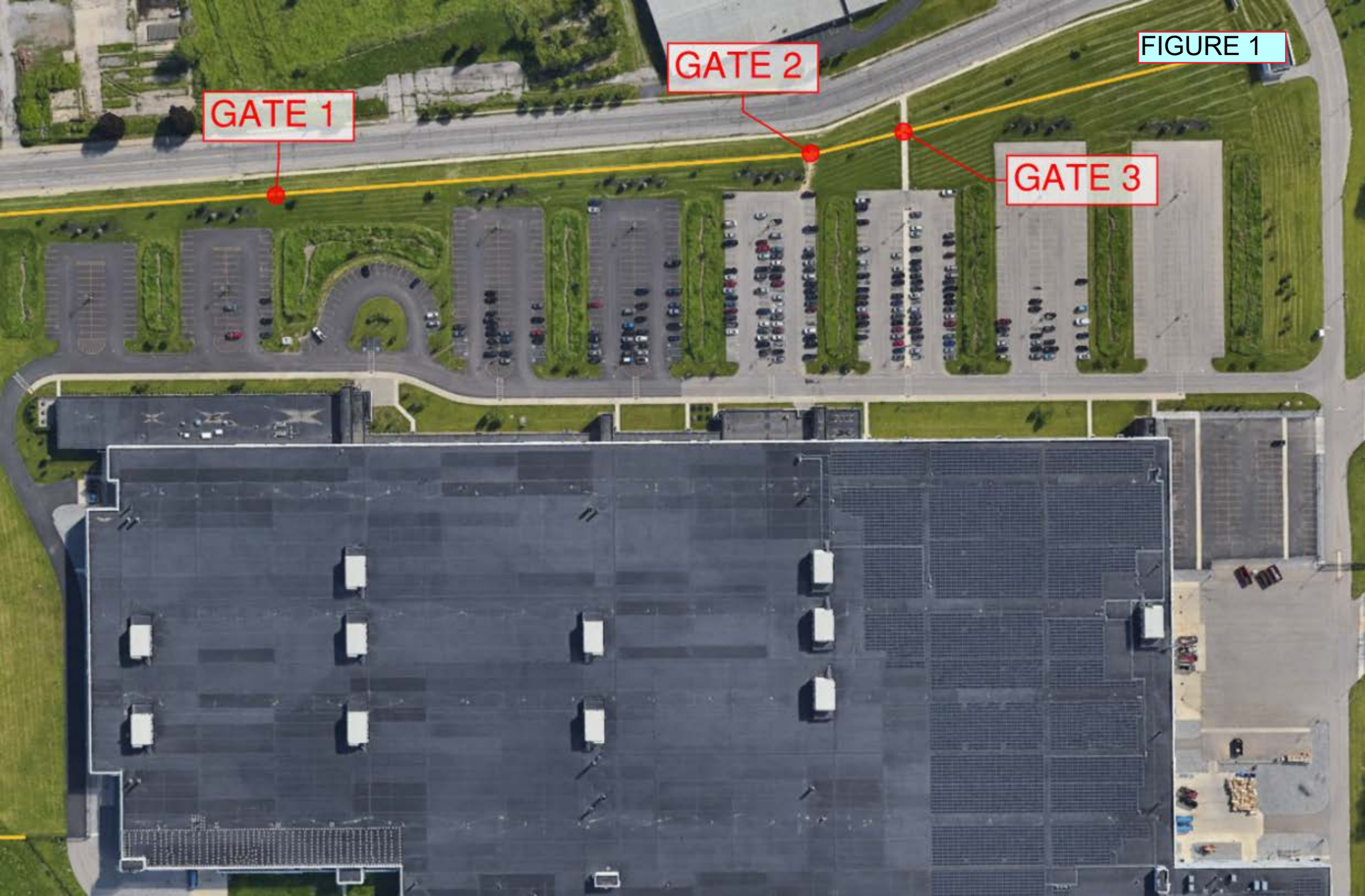


FIGURE 1

FIGURE 2

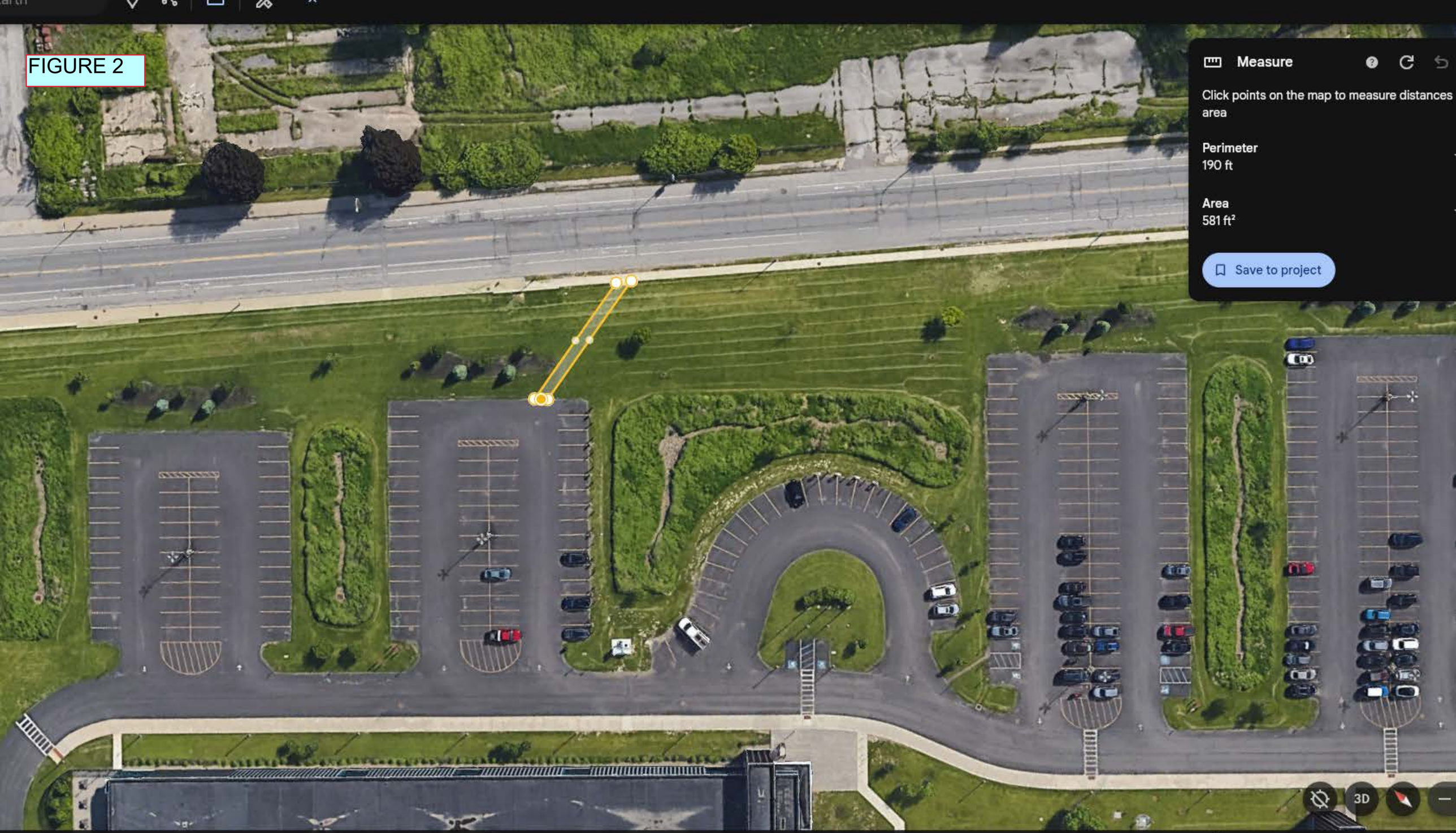

Measure
Click points on the map to measure distances
area
Perimeter
190 ft
Area
581 ft²
Save to project
3D
attribution
30 m
Camera: 438 m
42°51'38"N 78°50'24"W

FIGURE 3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Steelfields Site (aka RiverBend) - Area I **DEC Site ID No.** V00619-9

II. Contact Information of Person Submitting Notification:

Name: Rob Pratt (Tesla)

Address1: 1339 South Park Avenue

Address2: Buffalo, NY 14220

Phone: 716.342.9075 E-mail: ropratt@tesla.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

☐ Change in Ownership or Change in Remedial Party(ies)

☐ Transfer of Certificate of Completion (CoC)

☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Oct 21, 2024

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Work activities will include a 1-foot-wide excavation beneath the existing gate approximately 1.5 to 2.0-feet below ground surface followed a 2-inch crusher run gravel backfill and completed with concrete (see attached Figures 1 through 3). This project will penetrate the final cover and demarcation layer and substantively change the use of the cover system within the project area of Site and require the import of off-site material. This change will not affect the completed remediation. The final cover will be slightly modified but will adhere to NYSDEC DER-10 requirements for the Site (i.e., commercial/industrial).

V. Certification Statement: Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VI. Contact Information for New Owner, Remedial Party, or CoC Holder: If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: TRC Environmental Corporation (Bryan Hann, P.G. (NY))

Address1: 1090 Union Road, Suite 280

Address2: West Seneca, NY 14224

Phone: 716.870.1165 E-mail: bhann@trccompanies.com

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

_____

(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

FIGURE 1
1' wide x 18" deep
asphalt swale

FIGURE 2

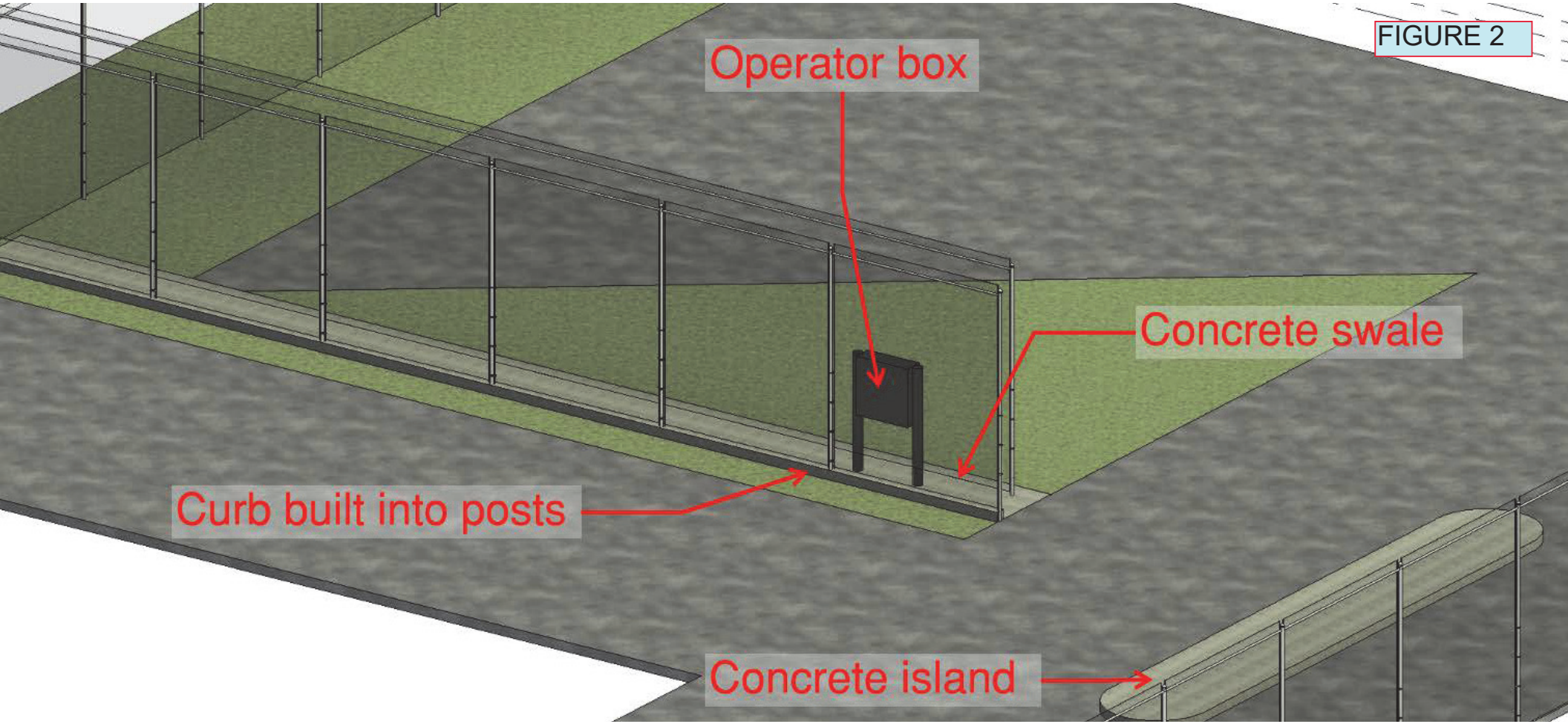

Operator box
Concrete swale
Curb built into posts
Concrete island

FIGURE 3

ATTACHMENT 4

IMPORT REQUEST FORMS

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 10 sieve? yes

Does it contain less than 10%, by weight, material that would pass a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

This material meets the requirements of DER-10 section 5.4(e)5 (other material), therefore, no samples were collected for chemical testing. The material includes:

2" Clean Limestone for concrete sidewalk subbase - 70 CYs

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

NA

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

County Line Stone Company, Inc.

Location where fill was obtained:

4515 Crittenden Road, Akron, NY 14001

Identification of any state or local approvals as a fill source:

Meets all requirements of NYSDOT Item No. 703-02 #100(150um) 1.2 NYSDOT Source 5-7RS

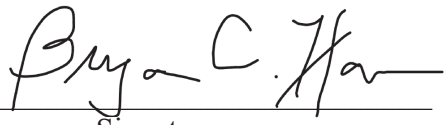
If no approvals are available, provide a brief history of the use of the property that is the fill source:

Virgin source

Provide a list of supporting documentation included with this request:

Description of product from County Line Stone
Grain Size Distribution from County Line Stone

The information provided on this form is accurate and complete.



Signature

06/14/2024

Date

Bryan C. Hann

Print Name

TRC Environmental Corporation

Firm

Crittenden Rd. Po Box 150 Akron NY 14001

Phone (716) 542-5435 Fax (716) 542-5442

Date: 6/14/24

Contractor: Sutton Paving & Excavation Inc.

Project: Tesla

Sales Manager & QC: Matt Buyers

County Line Stone's limestone products, including clean #2 stone, are sourced from virgin limestone at the Akron quarry. NYSDOT recognizes the quarry as 5-7R and 5-7RS.

County Line STONE CO., INC.

4515 CRITTENDEN ROAD, AKRON, N.Y. 14001

Phone 716-542-5435 **Fax 716-542-5442**

ALL SIZES CRUSHED STONE BITUMINOUS CONCRETE AGRICULTURAL LIME

Material #2 Clean Limestone **Date** 6/12/2024

Sieve	% Passing	Specification
4"(100mm)		
3"(75mm)		
2 1/2"(63mm)		
2"(50mm)		
1 1/2"(37.5mm)	100.0	100
1"(25mm)	100.0	90-100
3/4"(19mm)	89.3	
5/8"(16.0mm)		
1/2"(12.5mm)	10.4	0-15
3/8"(9.5mm)		
5/16 "(8.0mm)		
1/4"(6.3mm)	1.0	
#4(4.75mm)		
1/8"(3.2mm)		
#8(2.36mm)		
#16(1.18mm)		
#20(850um)		
#30(600um)		
#40(425um)		
#50(300um)		
#80(180um)		
#100(150um)	1.2	
#200(75um)	0.7	0-1.0
PAN		
TOTAL		

New York State Specifications

Size	Screen Sizes											
Designation	4"	3"	2 1/2"	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No 40	No 80	No 200
Screenings							100	90-100				0-1.0
1B								100	90-100		0-15	0-1.0
1A							100	90-100	0-15			0-1.0
1ST							100	0-15				0-1.0
1						100	90-100	0-15				0-1.0
2					100	90-100	0-15					0-1.0
3A				100	90-100	0-15						0-0.7
3			100	90-100	35-70	0-15						0-0.7
4A		100	90-100		0-20							0-0.7
4	100	90-100		0-15								0-0.7
5	90-100	0-15										0-0.7
TYPE 1		100		90-100				30-65		5-40		0-10
TYPE 2				100				25-60		5-40		0-10
TYPE 3	100							30-75		5-40		0-10
TYPE 4				100				30-65		5-40		0-10

Comments: Meets all requirements of NYSDOT Item No. 703-02

NYSDOT Source 5-7RS

-----Original Message-----
From: SiteManager@dot.ny.gov <SiteManager@dot.ny.gov>
Sent: Wednesday, April 5, 2023 10:05 AM
To: Mike Buyers <mike@clstone.us>
Cc: Materials.Geology@dot.ny.gov; angelo.borgese@dot.ny.gov; bhill@continentalplacer.com
Subject: 5-7R and 5-7RS, County Line Stone Co. Inc. Geologic Source Report Reviewed

This email is to confirm that the 2023 geologic source report Annual and Cyclic module(s) for County Line Stone Co. Inc., 5-7R and 5-7RS, received on 02/10/2023 has been reviewed and accepted. The Geological Source Report Requirements for the 2023 season have been satisfied. However, if significant discrepancies between the report and the quarry operations are noted during field inspection, a revised report will be required. Please note there shall be no extension or alteration to the limits of the area of proposed operations without prior approval from this office.

Aggregate sources which satisfy all applicable requirements of NYSDOT Materials Method 29 - Aggregate Source Acceptance Procedure, will appear on the Approved List of Sources of Fine and Coarse Aggregates. Materials Method 29 is available on the NYS DOT website at: https://www.dot.ny.gov/divisions/engineering/technical-services/materials-bureau/forms-manuals.

The Approved List is available on the NYS DOT website at: https://www.dot.ny.gov/divisions/engineering/technical-services/materials-bureau/fine-coarse-aggregates.

If the producer or the consulting geologist has any questions regarding these matters, they may call members of the staff in the Materials Bureau, Engineering Geology Section at (518) 457-1038.

Materials Bureau
Engineering Geology Section
New York State Department of Transportation
50 Wolf Road, POD 5-1, Albany NY 12232
(518) 457-1038 | materials.geology@dot.ny.gov www.dot.ny.gov

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 10 sieve? no

Does it contain less than 10%, by weight, material that would pass a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

This material meets the requirements of DER-10 section 5.4(e)5 (other material), therefore, no samples were collected for chemical testing. The material includes:

2" ROC for East Gate concrete swale subbase - 50 CYs

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

NA

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

New Enterprise Stone & Lime Co., Inc.

Location where fill was obtained:

Wherle Drive, NYS Source Number 5-3R

Identification of any state or local approvals as a fill source:

Item #304.12 - 2" crusher run

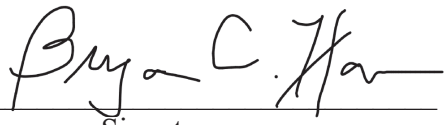
If no approvals are available, provide a brief history of the use of the property that is the fill source:

Virgin source

Provide a list of supporting documentation included with this request:

Description of product from New Enterprises
Grain Size Distribution from CME Associates, Inc.

The information provided on this form is accurate and complete.



Signature

10/08/2024

Date

Bryan C. Hann

Print Name

TRC Environmental Corporation

Firm

"Buffalo's Original Paving Contractor"
580 Cayuga Road
Cheektowaga, NY 14225-1312
Phone (716) 633-6944
Fax (716) 633-1053
office@louisdelprince.com

SUBMITTAL

Job Name

Submittal # 24-096-001

Submittal Name: Subbase Stone

[x] NEW Submittal [ ] Re-Submittal Date: 10/7/2024

Substitution Remarks:

[ ] Yes

[x] No

Type of Submittal (check one)

[X] Product Data [ ] Color Selection [ ] O&M Manual
[ ] Shop Drawings [ ] Sample [ ] Record Document
[ ] Other:

Spec Section: 321123 Dwg. Ref. No.: -

Item Description Subbase Stone

Product Name: 2" Crusher Run

Contractor / Subcontractor: Louis Del Prince & Sons, Inc.

Address: Joe Minneci - 580 Cayuga Road Phone: Cheektowaga, NY 14225

Supplier: New Enterprise Stone & Lime Co., Inc.

Address: 500 Como Park Blvd. - Buffalo, NY 14227 Phone: 716-826-7310

Manufacturer: New Enterprise Stone & Lime Co., Inc.

Address: 500 Como Park Blvd. - Buffalo, NY 14227 Phone: 716-826-7310

Contractor Certification

Contractor certifies that the information submitted complies with the contract document requirements. Except as noted.

By: Joseph Minneci

Date: 10/7/2024

Architect / Engineer Stamp

COMMENTS:

New Enterprise Stone & Lime Co., Inc.

Buffalo Area Office: 500 Como Park BLVD • Buffalo, NY 14227 • Main: 716-826-7310
Fax: 716-826-1342

10/7/2024

Michael Ring
Louis Del Prince & Sons Inc.
580 Cayuga Rd.
Cheektowaga, NY 14225

Re: Tesla Mow Strip 2024

Michael,

We certify the aggregates we supply on the subject project meet the New York State Department of Transportation Specification and Gradations as follows:

Item #304.12 // -2" Crusher Run // Type 2 Subbase	
Sieve Size	Percent Passing
2"	100
1/4"	25-60
No. 40	5-40
No. 200	0-10

Our New York State Source Number at our Wehrle Drive location is 5-3R.

We trust this meets with your approval.

Sincerely,

Ryan Vondell

Ryan Vondell
Account Representative

RV:DJ

CME Associates, Inc.
2727 Broadway St #2
Buffalo, NY 14227

Material Test Report

Report ID: MAT:04-24-3263-01
Issue No: 1
This issue replaces all previous issues of this report

Client: New Enterprise Stone & Lime Co., Inc **CC:** Buffalo Admin, Paul Juda

Project: 17330 - New Enterprise Stone & Lime

Location: Williamsville, NY

This report and the results contained herein are the exclusive property of CME Associates, Inc. and shall only be reproduced in full when written consent is provided by CME Associates, Inc.

Submitted By: Niel W. Zuern, Vice President of Quality
Date of Issue: 9/5/2024

Sample Details

Sample ID	04-24-3263-01
Date Sampled	8/22/2024
Source	NESL Wehrle #5-3R
Material	NYSDOT Type II Subbase
Specification	NYSDOT Type II Subbase
Sampling Method	Sampled per ASTM D75
Location	NESL Wehrle #5-3R Stockpile

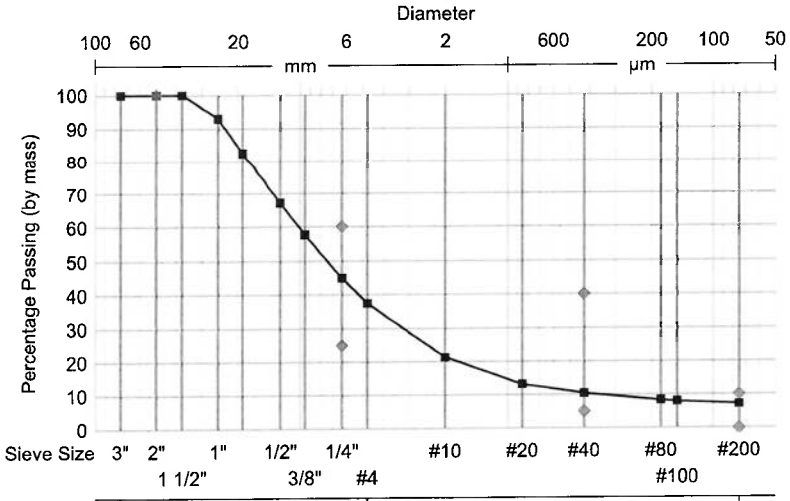
Other Test Results

Description	Method	Result	Limits
Cu	ASTM D2487	27.43	
Cc		2.72	
Procedure	ASTM C117	B	

Particle Size Distribution

ASTM C136

Drying By: None
Date Tested: 8/26/2024
Tested By: Austin Glasier



COBBLES	GRAVEL (63%)		SAND (30%)			SILT/CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	
0%	17.5%	45.1%	16.1%	10.9%	3.2%	7%

Sieve Size	% Passing	Limits
3in	100	
2in	100	100
1½in	100	
1in	93	
¾in	82	
½in	67	
3/8in	58	
¼in	45	25 – 60
No.4	37	
No.10	21	
No.20	13	
No.40	10	5 – 40
No.80	8	
No.100	8	
No.200	7.2	0 – 10

Comments

N/A

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CME Associates, Inc.
2727 Broadway St #2
Buffalo, NY 14227

Proctor Report

Report ID: PTR:04-24-3263-01
Issue No: 1
This issue replaces all previous issues of this report

Client: New Enterprise Stone & Lime Co., Inc **CC:** Buffalo Admin, Paul Juda

Project: 17330 - New Enterprise Stone & Lime

Location: Williamsville, NY

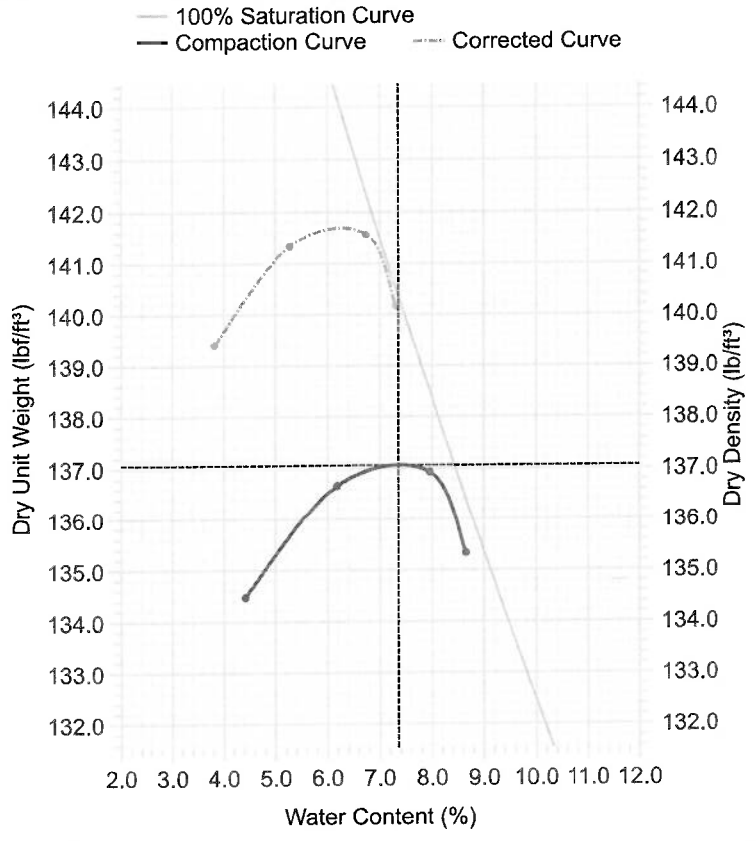
This report and the results contained herein are the exclusive property of CME Associates, Inc. and shall only be reproduced in full when written consent is provided by CME Associates, Inc.

Submitted By: Niel W. Zuern, Vice President of Quality
Date of Issue: 9/5/2024

Sample Details

Sample ID: 04-24-3263-01
Date Sampled: 8/22/2024
Sampling Method: Sampled per ASTM D75
Source: NESL Wehrle #5-3R
Material: NYSDOT Type II Subbase
Specification: NYSDOT Type II Subbase
Location: NESL Wehrle #5-3R Stockpile

Dry Unit Weight - Water Content Relationship



Test Results

ASTM D1557

Mod. Maximum Dry Unit Weight (lbf/ft³):	**137.1**
Mod. Optimum Water Content (%):	**7.4**
Retained on 3/4" Sieve (%):	18
Passing 3/4" Sieve (%):	82
Cumulative Retained on 3/8" Sieve (%):	42
Retained on 3/8" Sieve (%):	25
Passing 3/8" Sieve (%):	58
Cumulative Retained on No.4 Sieve (%):	63
Retained on No.4 Sieve (%):	20
Passing No.4 Sieve (%):	37
Method:	C
Preparation Method:	Moist
Rammer Type:	Automatic
Test Portion Specific Gravity:	2.70
Determined By:	Estimated
Tested By:	Austin Glasier
Date Tested:	8/26/2024

ASTM D4718

Corrected Maximum Dry Unit Weight (lbf/ft³):	**141.7**
Corrected Optimum Water Content (%):	**6.2**
Oversize Specific Gravity:	2.70
Oversize Particles (%):	18

Comments

Oversize Specific Gravity determined by Estimation.

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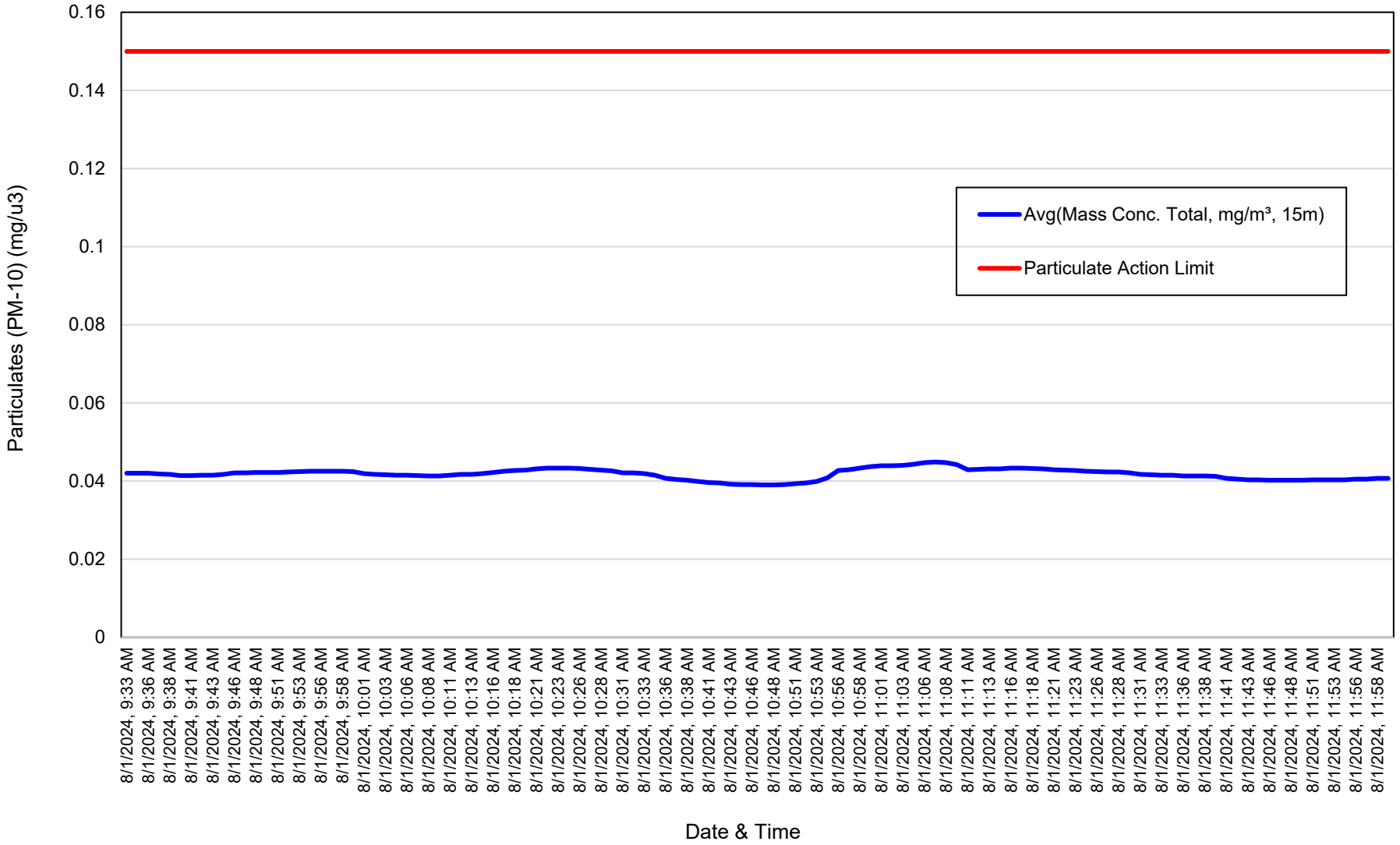
ATTACHMENT 5

COMMUNITY AIR MONITORING PLAN (CAMP) DOCUMENTATION

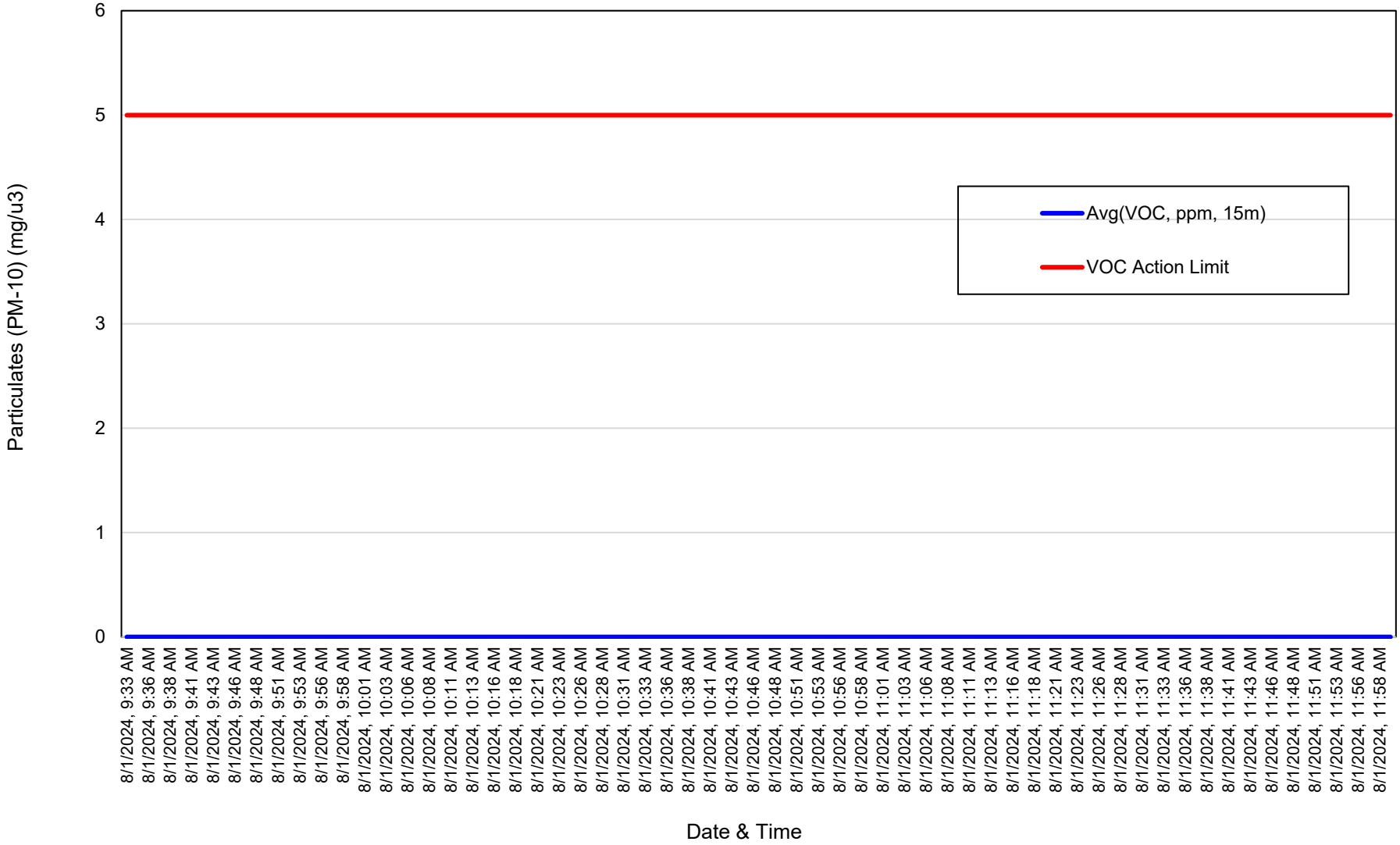
Particulate Concentration vs. Time

Tesla (Area I) Site
Perimter Fence Installation (Phase 2) - Downwind



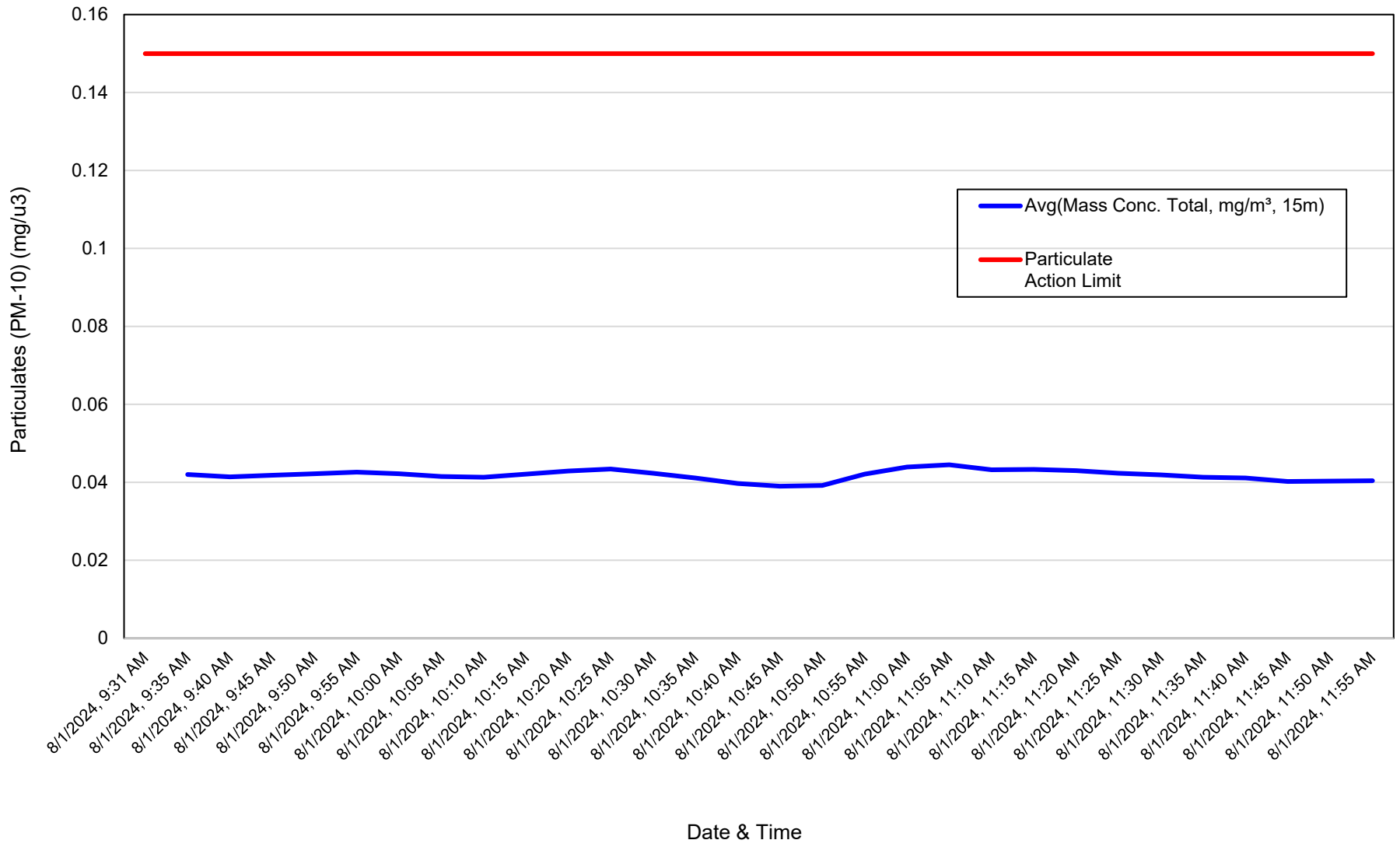
VOC Concentration vs. Time

Tesla (Area I) Site
Perimter Fence Installation (Phase 2) - Downwind



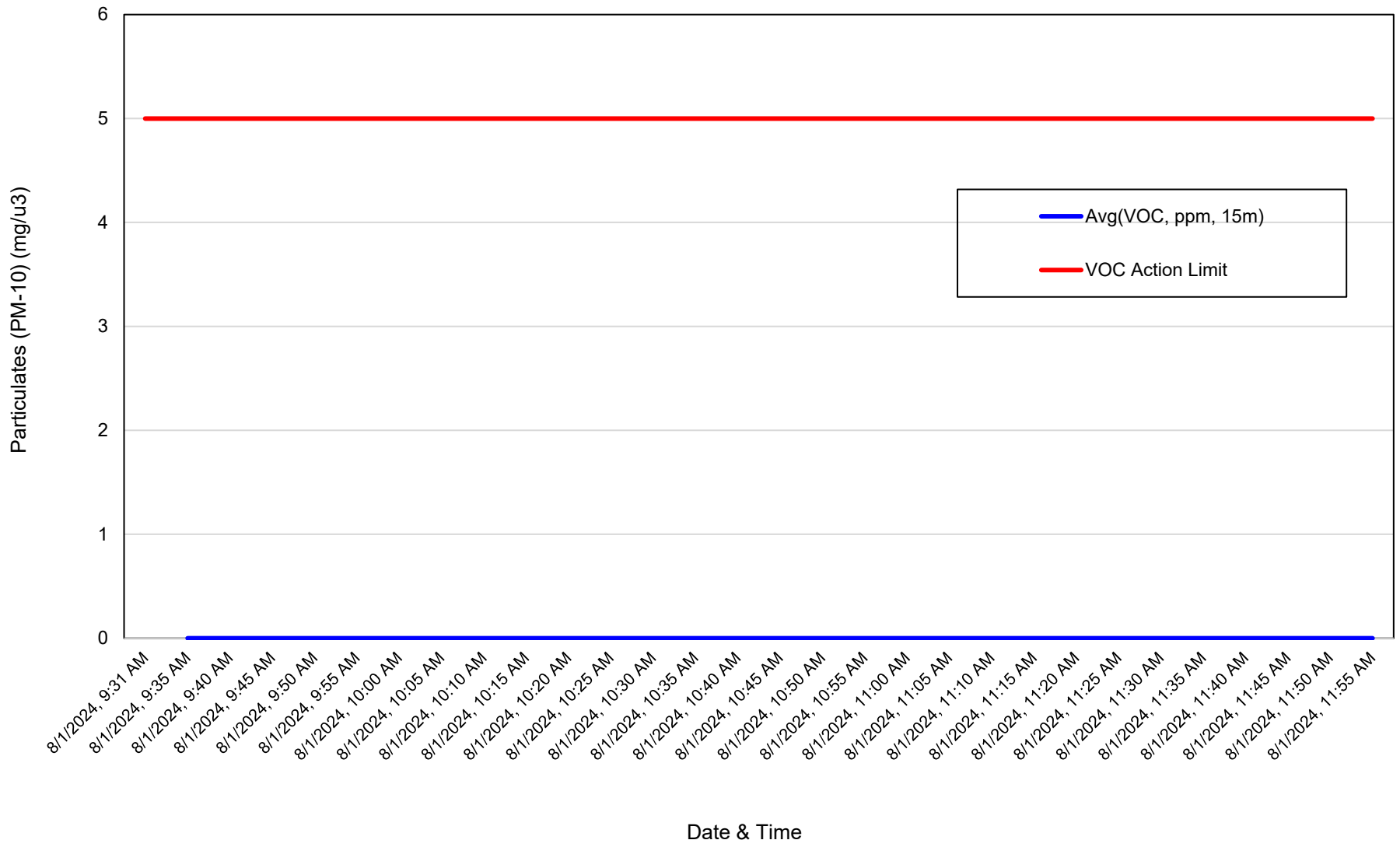
Particulate Concentration vs. Time

Tesla (Area I) Site
Perimter Fence Installation (Phase 2) - Upwind



VOC Concentration vs. Time

Tesla (Area I) Site
Perimter Fence Installation (Phase 2) - Upwind



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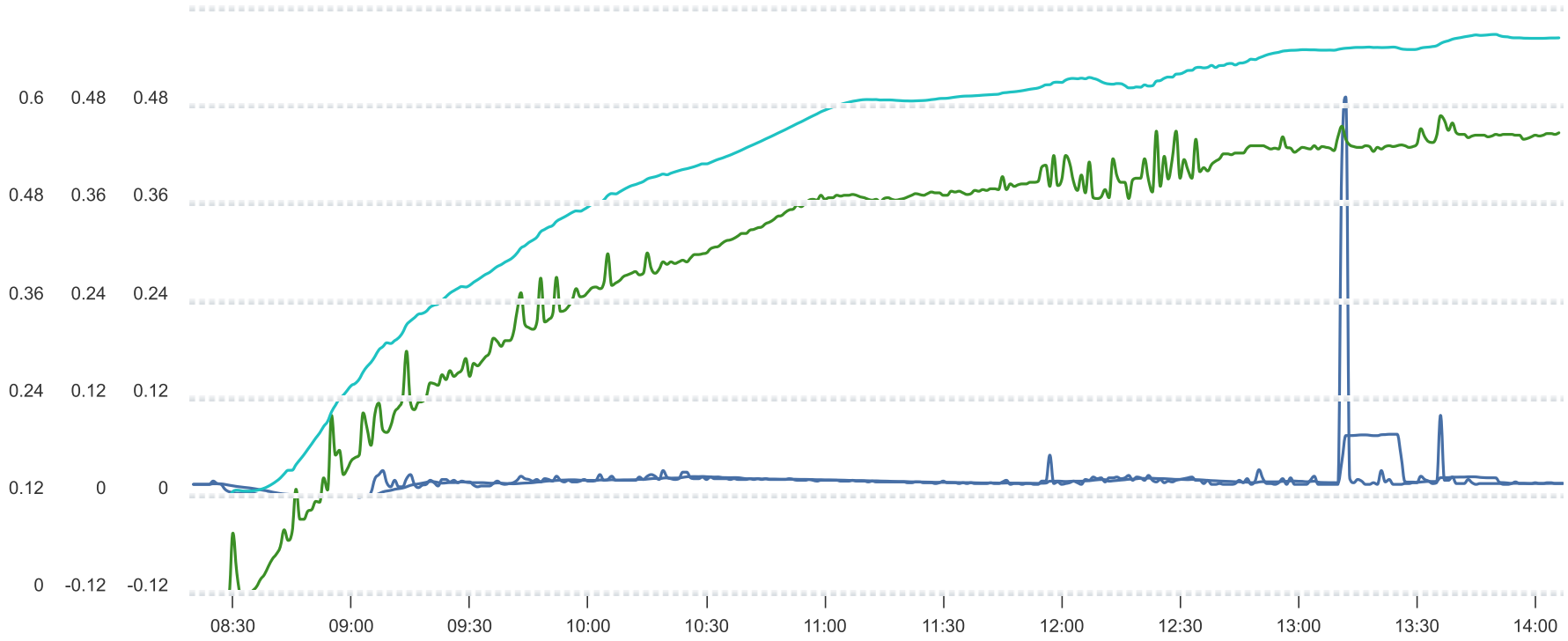
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m³

MIN **-0.001** AVG **0.02** MAX **0.492**

Avg(Mass Conc. Total, mg/m³, 15m)

MIN **0** AVG **0.02** MAX **0.077**

VOC, ppm

MIN **0** AVG **0.414** MAX **0.589**

Avg(VOC, ppm, 15m)

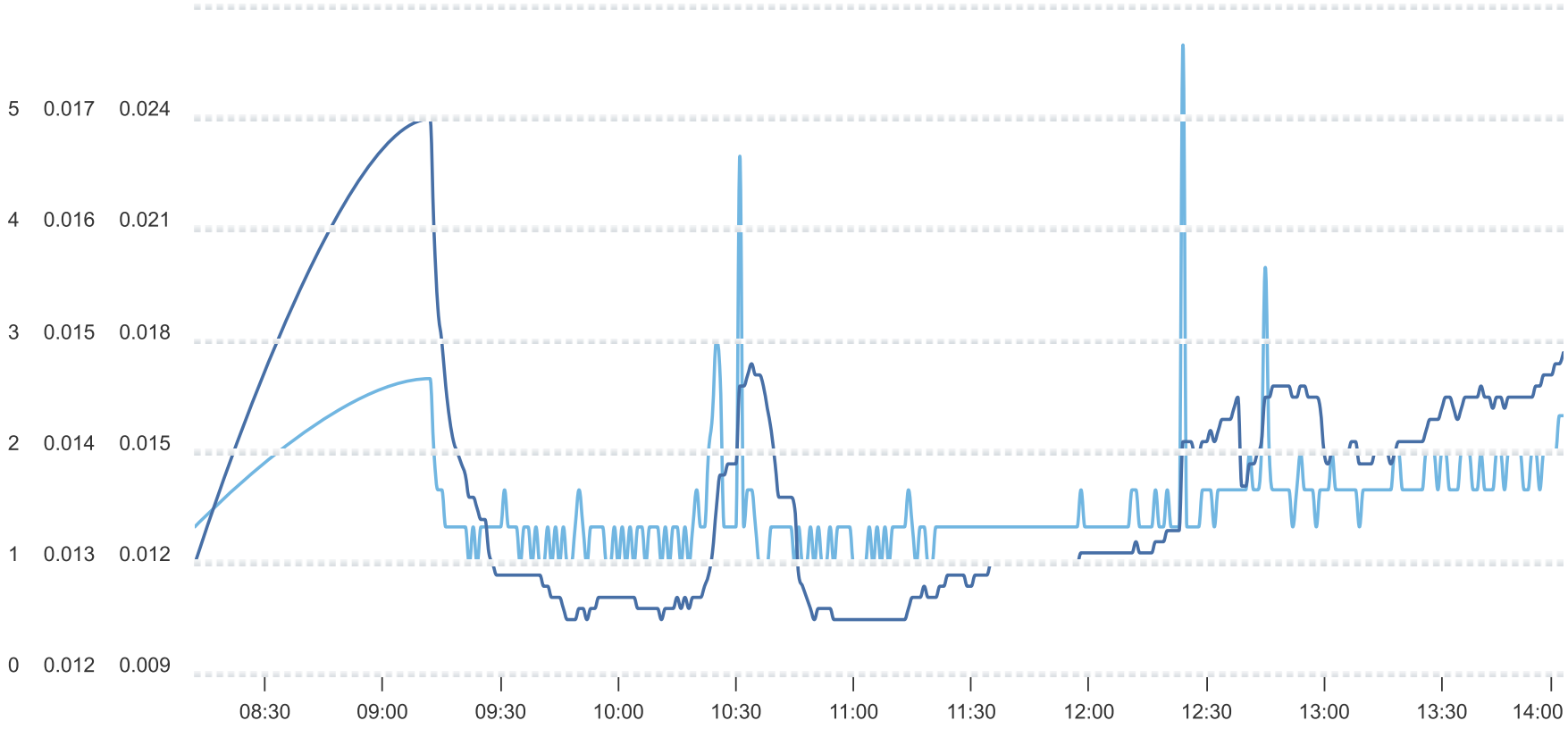
MIN **0** AVG **0.402** MAX **0.569**

TRC #1 (Bryan Hann)(FA06184)

2B507916

10/21/2024 02:26 - 10/21/2024 14:26

(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total, mg/m^3

MIN **0.012** AVG **0.013** MAX **0.026**

Avg(Mass Conc. Total, mg/m^3, 15m)

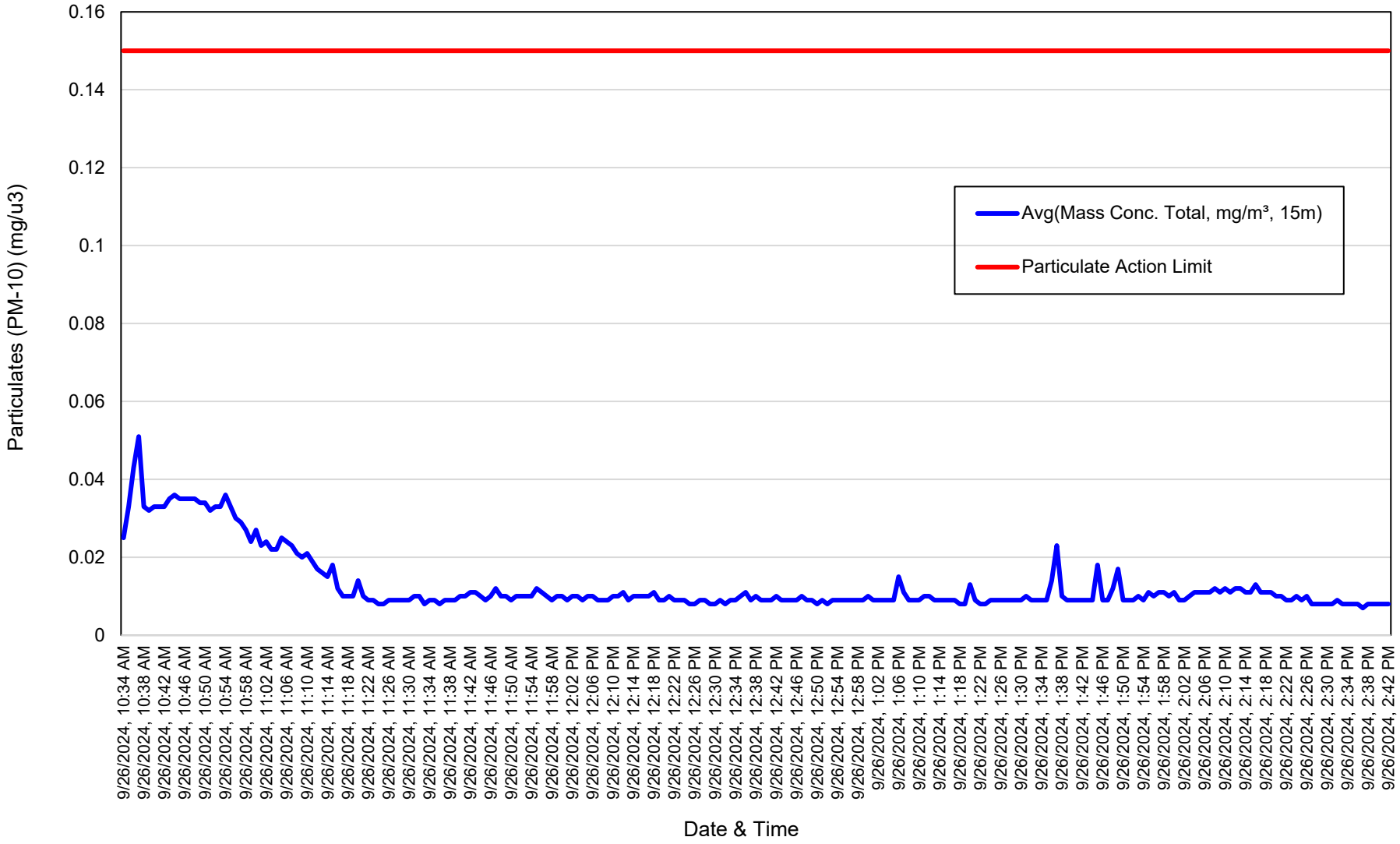
MIN **0.013** AVG **0.013** MAX **0.017**

VOC, ppm

MIN **0** AVG **0** MAX **0**

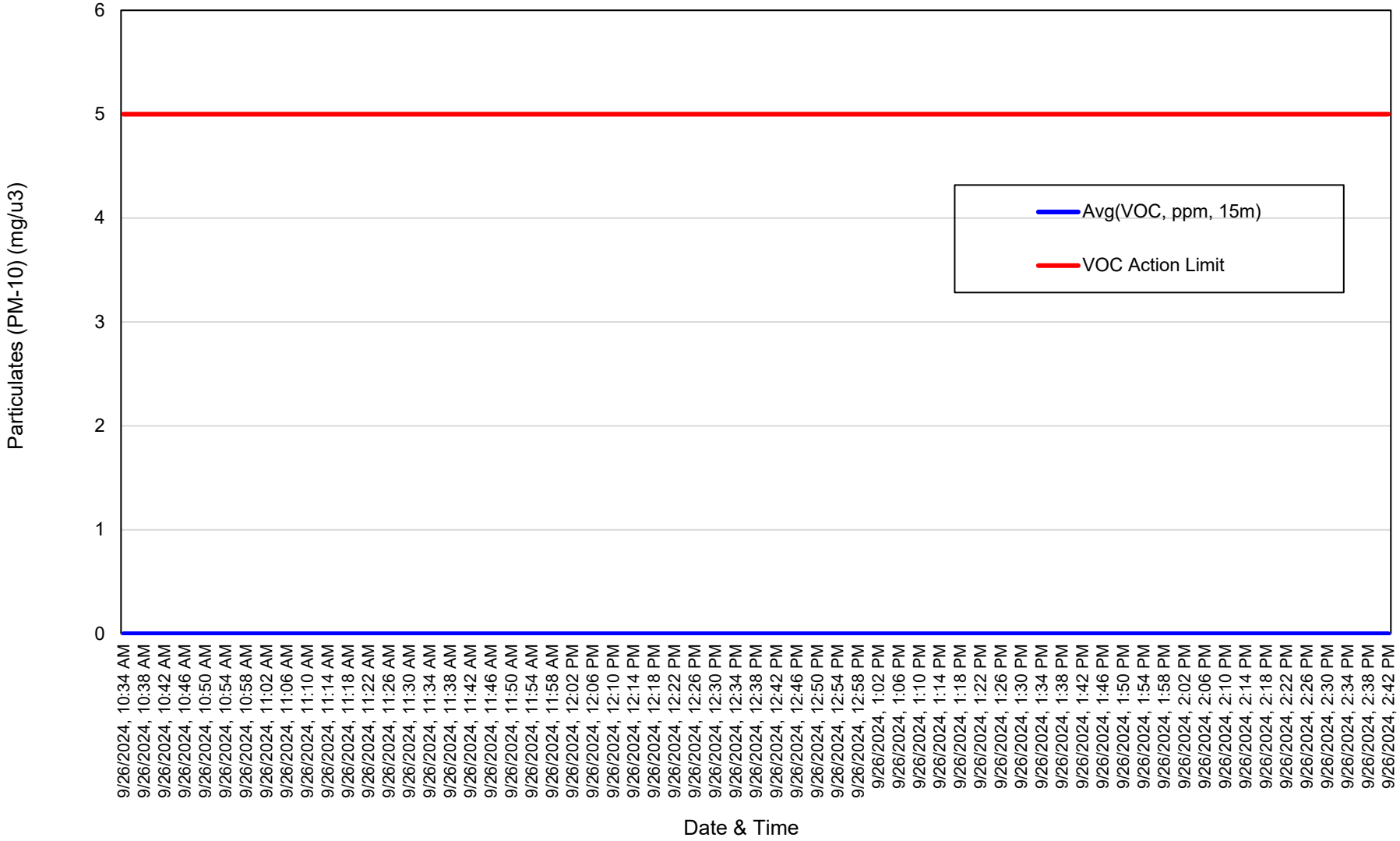
Particulate Concentration vs. Time

Tesla (Area I) Site
Fiber Optic Installation (SPark) - Downwind



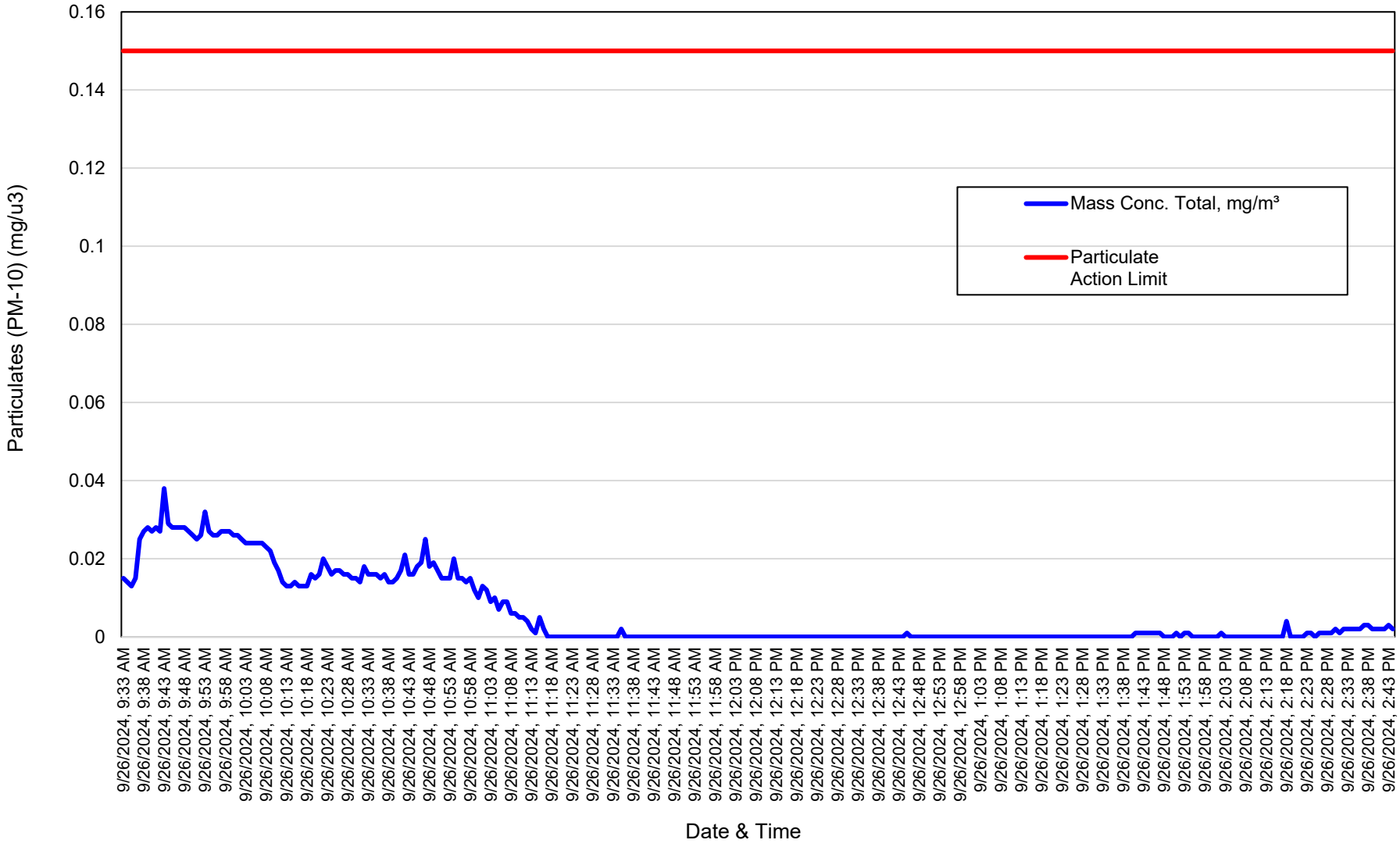
VOC Concentration vs. Time

Tesla (Area I) Site
Fiber Optic Installation (SPark) - Downwind



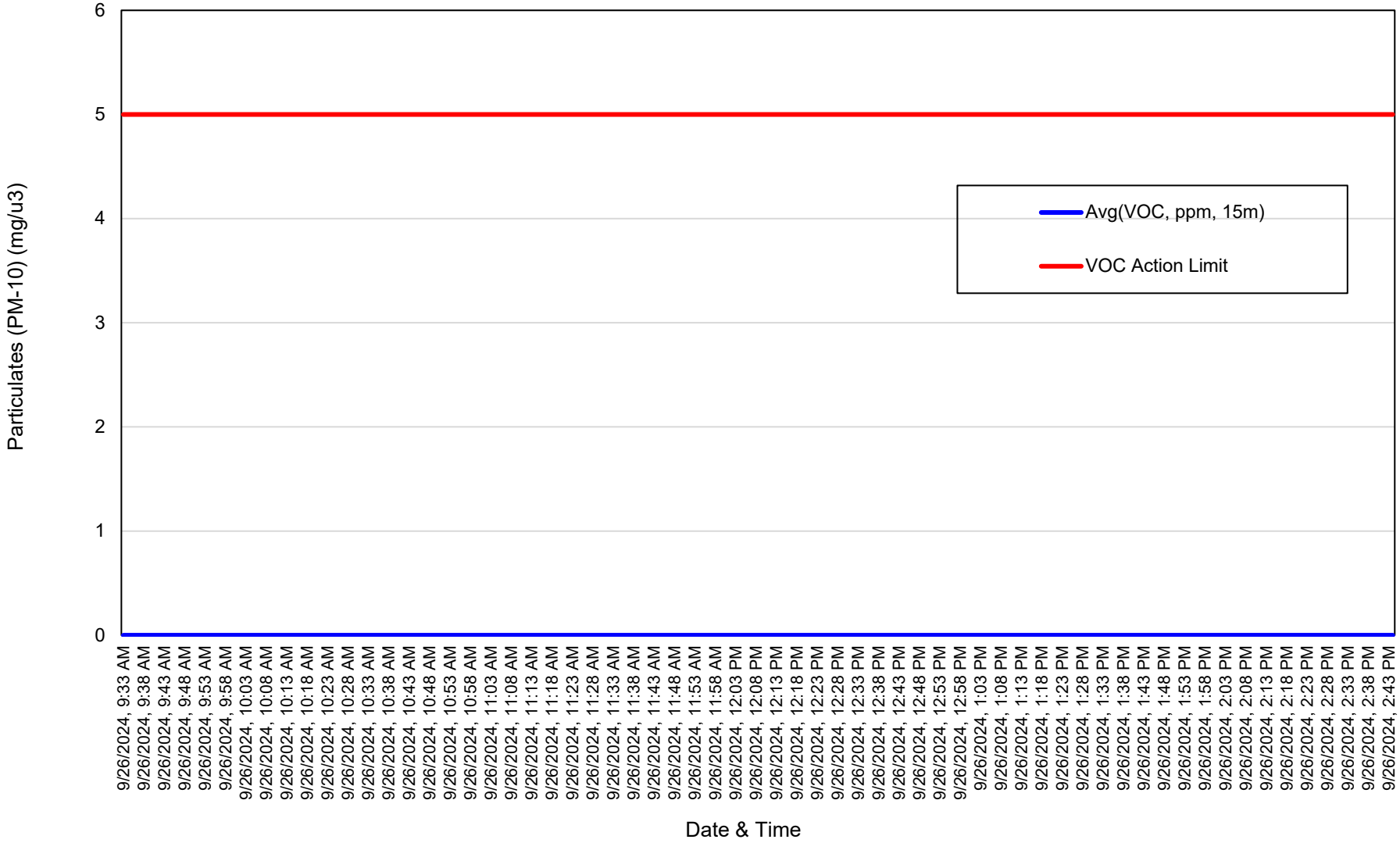
Particulate Concentration vs. Time

Tesla (Area I) Site
Fiber Optic Installation (SPark) - Upwind



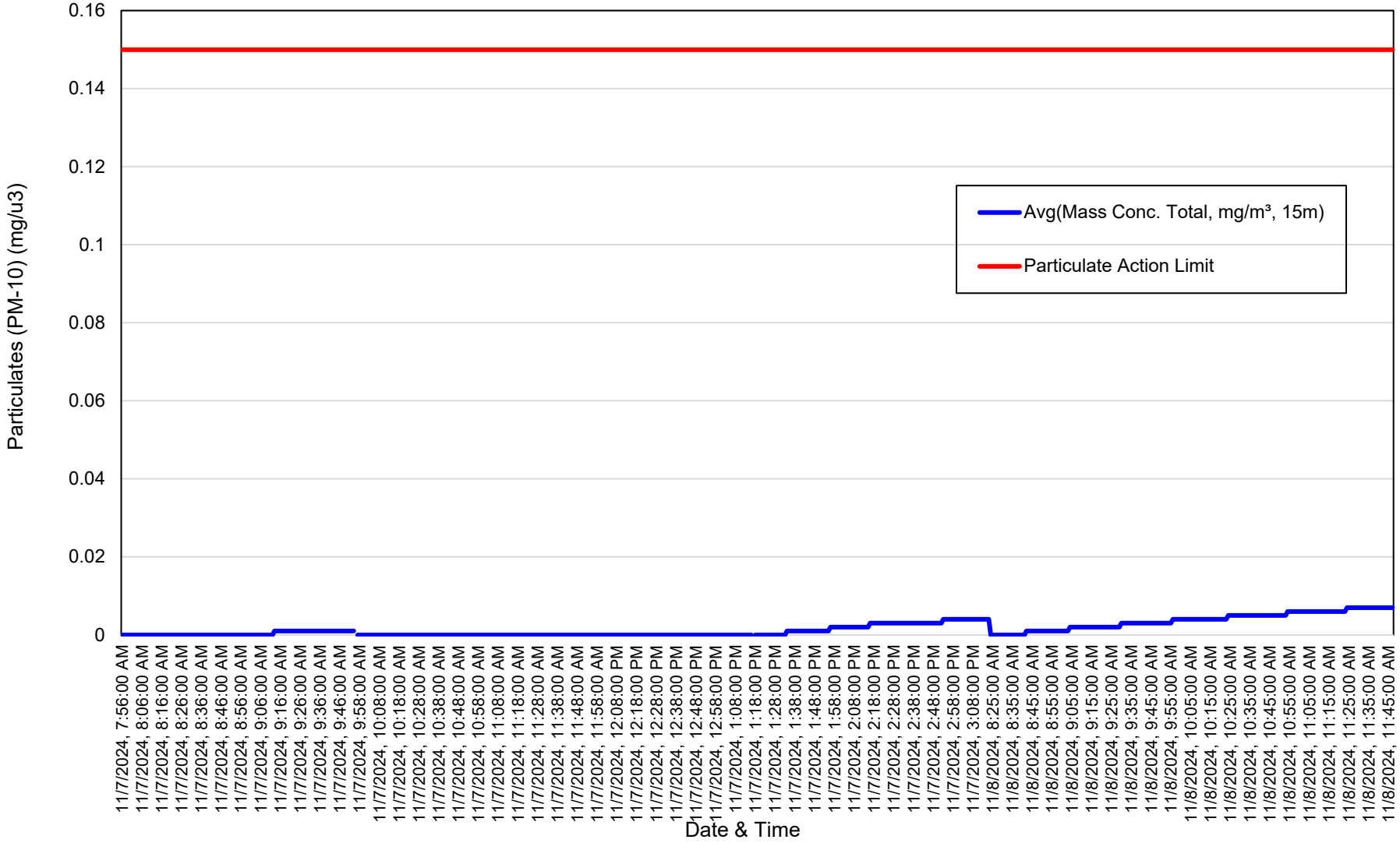
VOC Concentration vs. Time

Tesla (Area I) Site
Fiber Optic Installation (SPark) - Upwind



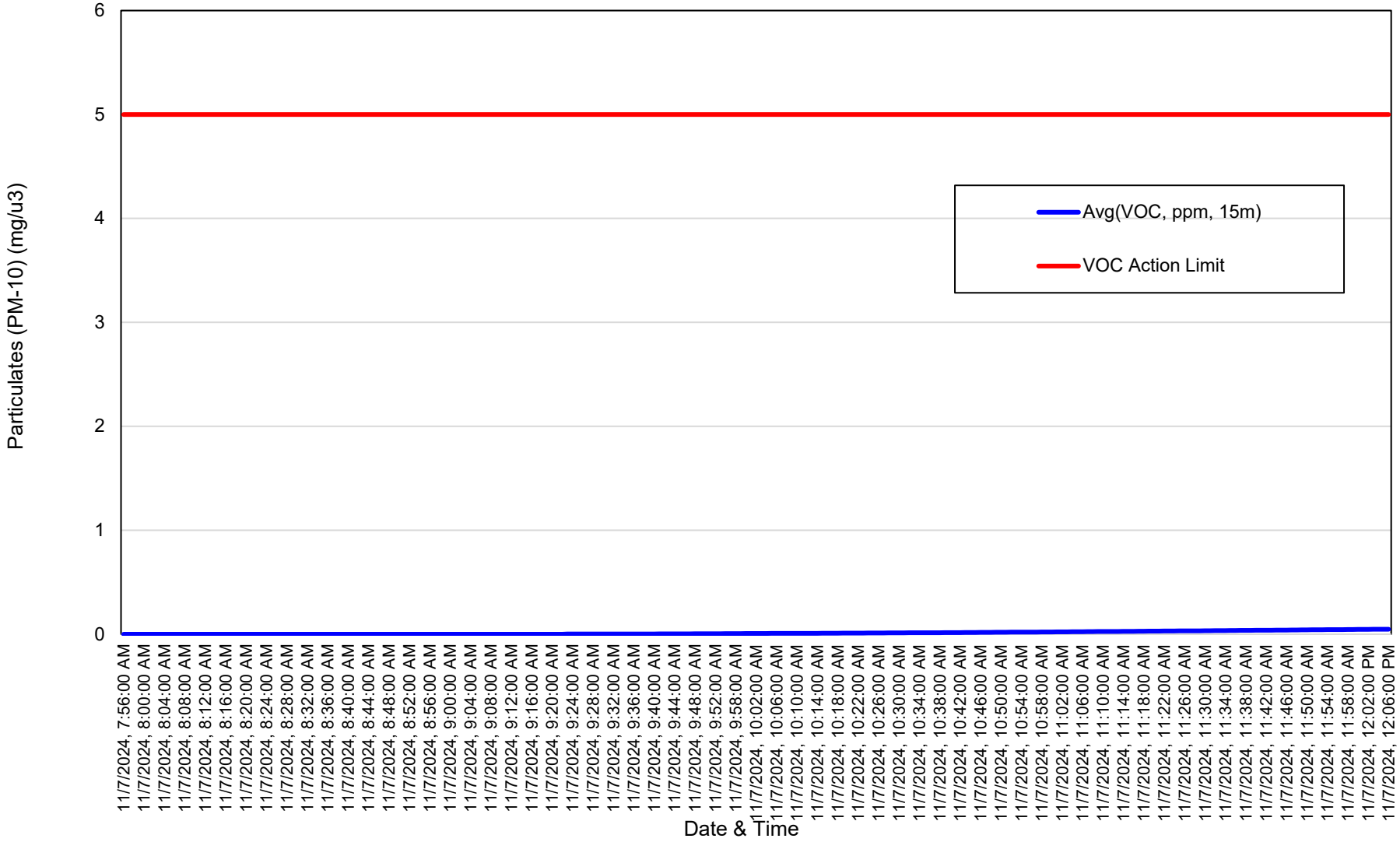
Particulate Concentration vs. Time

Tesla (Area I) Site
Digital Display Board Installation - Downwind



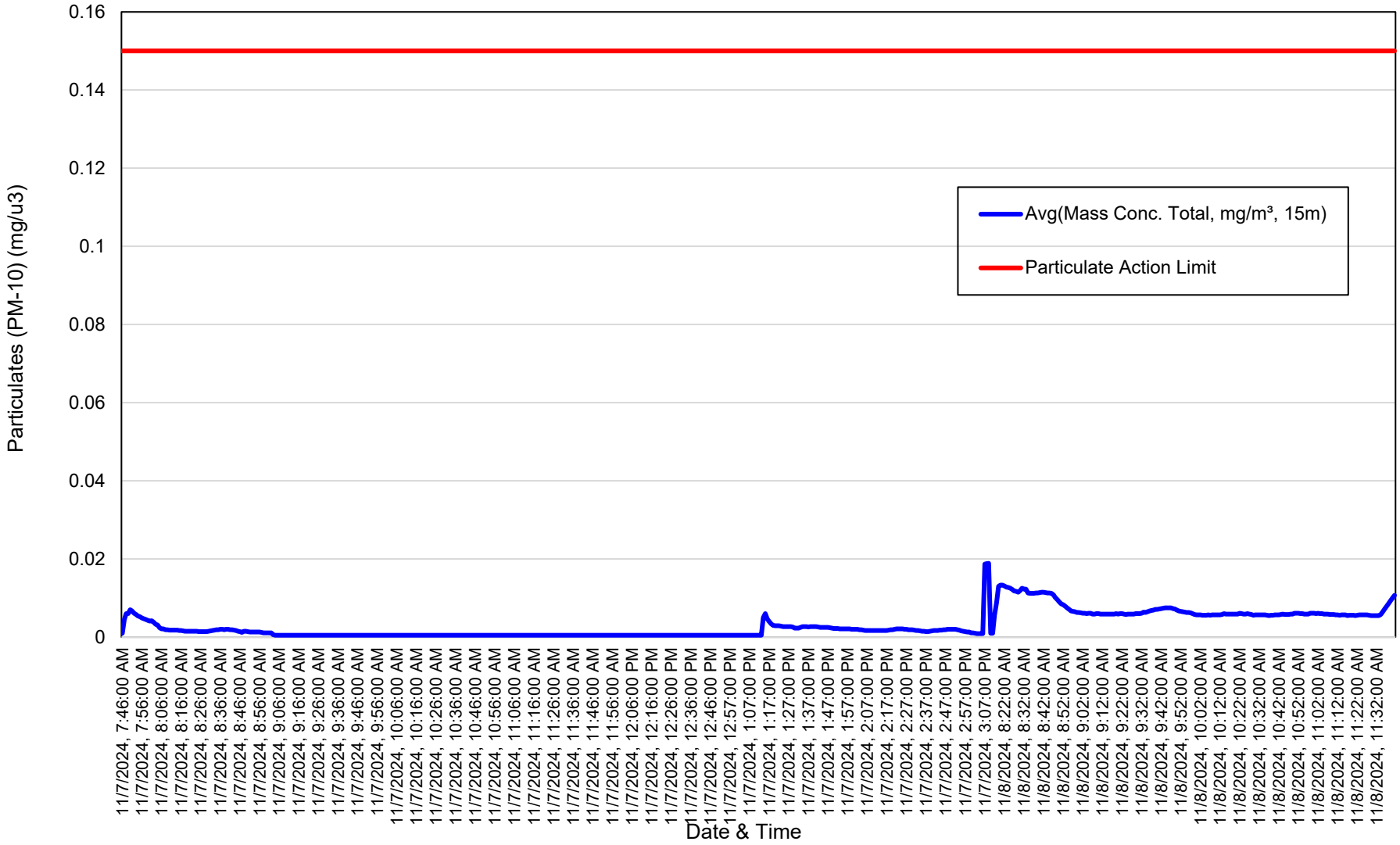
VOC Concentration vs. Time

Tesla (Area I) Site
Digital Display Board Installation - Downwind



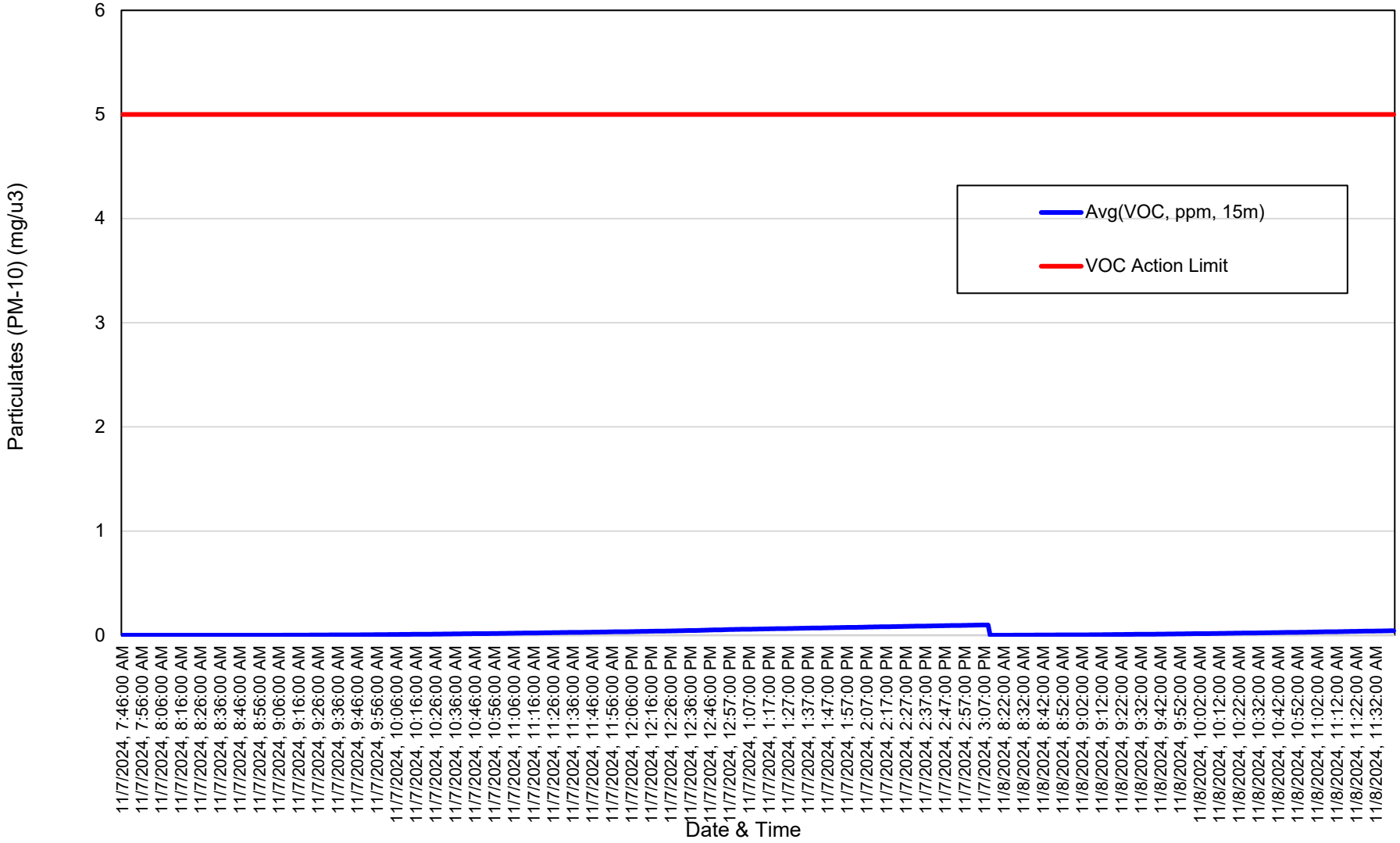
Particulate Concentration vs. Time

Tesla (Area I) Site
Digital Display Board Installation - Upwind



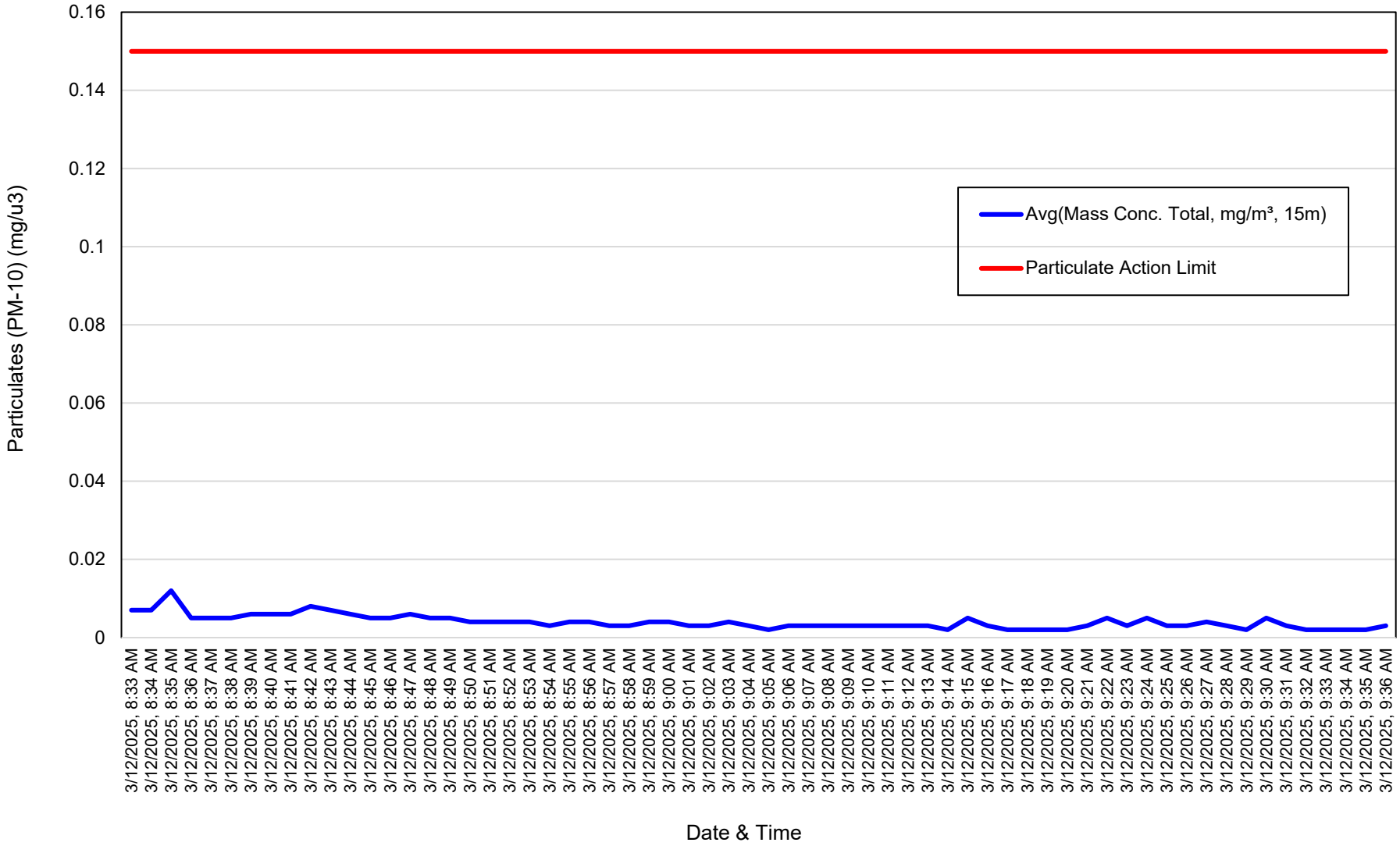
VOC Concentration vs. Time

Tesla (Area I) Site
Digital Display Board Installation - Upwind



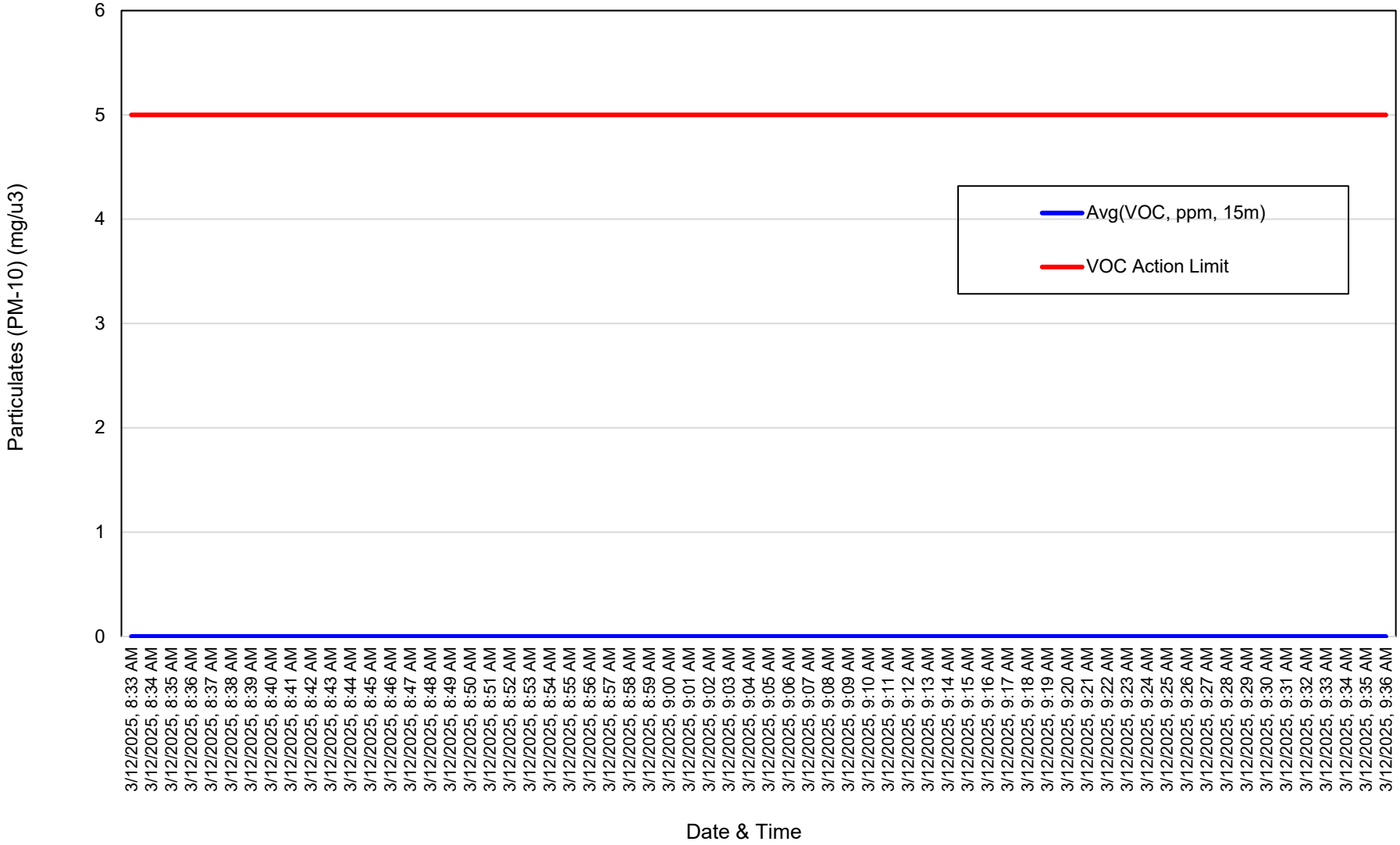
Particulate Concentration vs. Time

Tesla (Area I) Site
Perimeter Fence Repair - Downwind



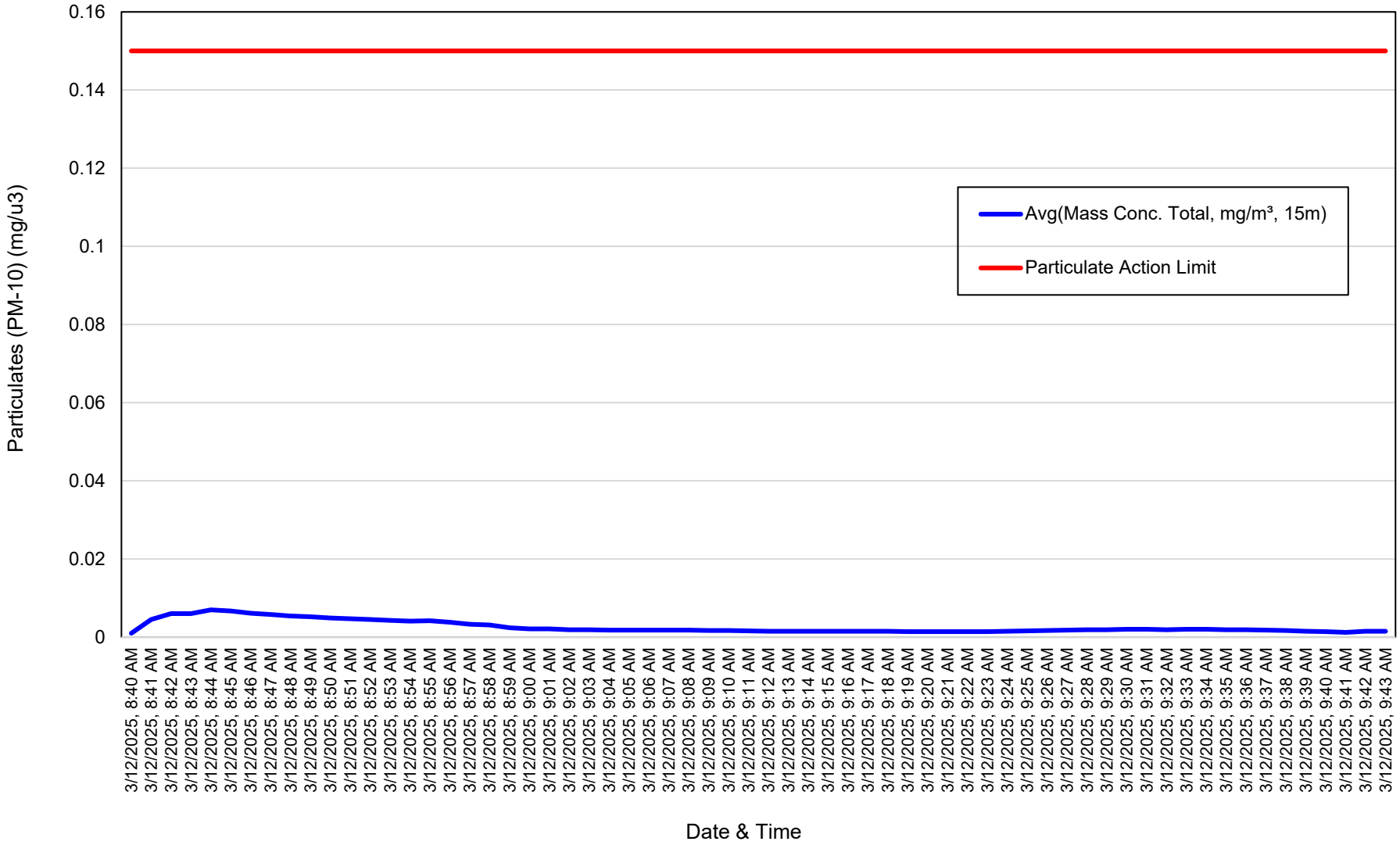
VOC Concentration vs. Time

Tesla (Area I) Site
Perimeter Fence Repair - Downwind



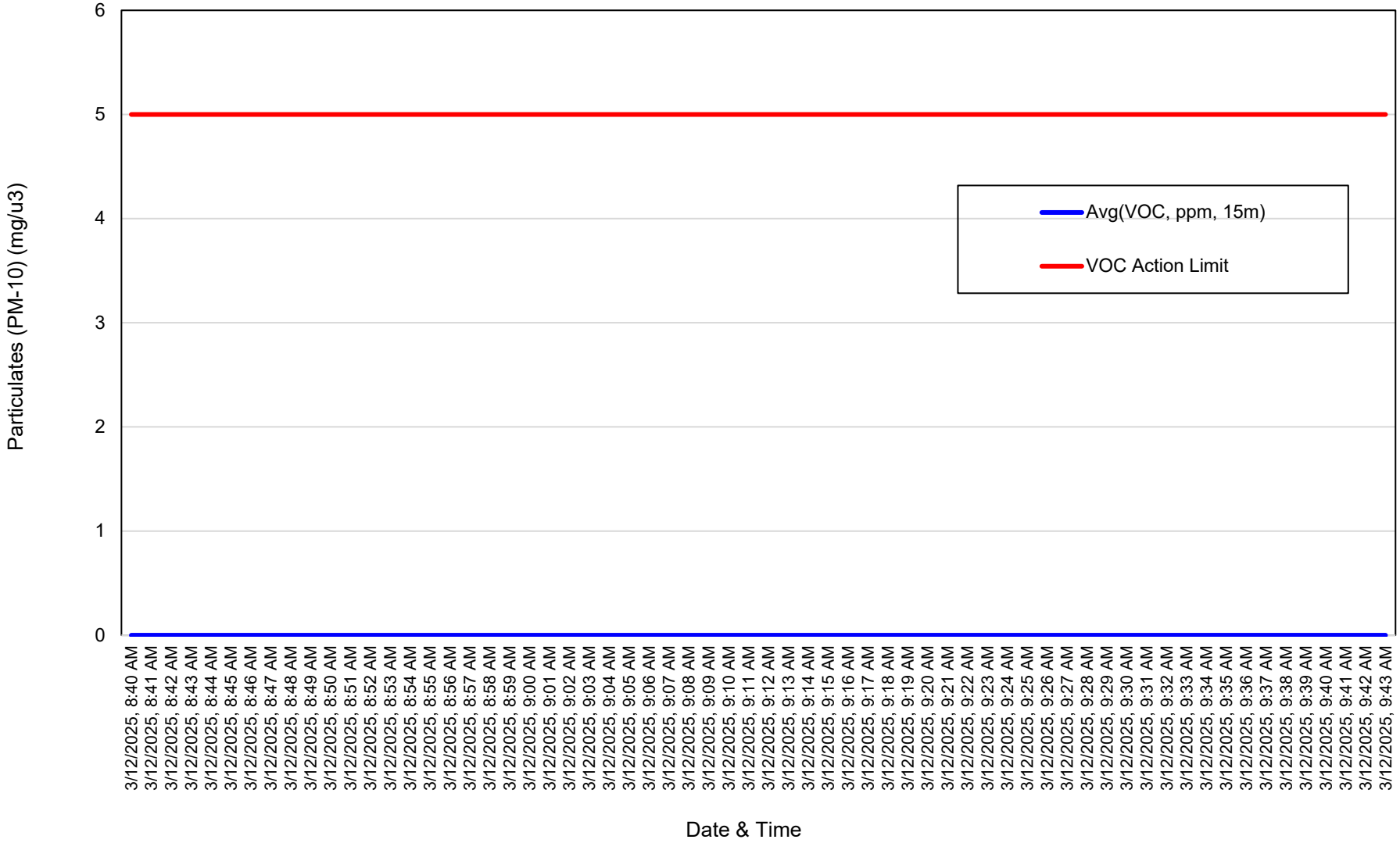
Particulate Concentration vs. Time

Tesla (Area I) Site
Perimeter Fence Repair - Upwind



VOC Concentration vs. Time

Tesla (Area I) Site
Perimeter Fence Repair - Upwind



ATTACHMENT 6

TRC's

WASTE CHARACTERIZATION & RADIOLOGICAL SCREENING SUMMARY REPORT (REVISED NOVEMBER 4, 2024)

1090 Union Road, Suite 280
West Seneca, NY 14224

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TRCcompanies.com

November 4, 2024

Ms. Megan Kuczka
Environmental Program Specialist 1
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Re: **Waste Characterization & Radiological Screening Summary Report (Revised)**
Tesla Gigafactory New York (GFNY) Site (V00619)
Buffalo, NY 14220

Dear Ms. Kuczka:

Per your request and August 27, 2024 emailed comments, TRC Environmental Corporation (TRC) has prepared this revised *Waste Characterization and Radiological Screening Summary Report* on behalf of Tesla, Inc. (Tesla) for generated material related to construction activities performed at the Tesla Gigafactory New York (GFNY) Site, Buffalo, New York (see **Figures 1 and 2**). The Tesla Site, also known as the RiverBend (Steelfields) Area I Site, is a New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) Site (No. V00619).

Specifically, the purpose of this report is to provide a revised summary of the waste characterization and radiological screening results for the Spoils Stockpile and Drilling Mud materials generated during various construction activities performed on the Area I (Tesla Site) from 2023 to 2024. Based on these results, Tesla is seeking NYSDEC and New York State Department of Health (NYSDOH) approval to construct an earthen berm, comprised of the soil/fill spoils and "to be stabilized" drilling mud, along the Fiber Optic Cable (South) alignment (approximately ±1,985 linear feet, LF) (see **Figure 2**).

A summary of the known environmental conditions at the Tesla Site; description of the Spoils Stockpile and Drilling Mud material; waste characterization field activities and results; radiological screening field activities and results; and our planned activities going forward are presented in the following sections.

SUMMARY OF AREA I (TESLA SITE) ENVIRONMENTAL CONDITIONS

Based on previous analytical data collected as part of a comprehensive Site Assessment and completed remedial actions for the Tesla (Area I) Site, Constituents of Concern include: volatile organic compounds (VOCs) present in soil/fill at elevated concentrations are limited to benzene, ethylbenzene, toluene, and xylenes (BTEX), semi-volatile organic compounds (SVOCs) present in soil/fill are exclusively limited to polycyclic aromatic hydrocarbons (PAHs), and heavy metals present in soil/fill are limited to arsenic, chromium, and lead; and mercury in isolated instances. Similar impacts were also identified in Tesla (Area I) Site groundwater. The native sand and clay soils present below the Tesla (Area I) Site soil/fill material were determined to not contain these analytes.

In 2015, low-level radiological activity was identified at the Site which was defined as technologically enhanced naturally occurring radiological material (TENORM). In general, TENORM is material containing radionuclides that are present naturally in rocks, soils, water, and minerals and that have become concentrated and/or exposed to the accessible environment due to human activities such as manufacturing, water treatment, or mining operations. The slag material at the Site is the likely source of the TENORM; a byproduct of the former iron and steel manufacturing operations which processed and co-processed NORM-containing ores and mined materials. The primary TENORM isotope identified at the Site is Radium-226. Radium (chemical symbol Ra) is a naturally occurring radioactive metal with the most common isotopes being Ra-226, Ra-224, and Ra-228. Radium-226, Ra-228 and their respective progeny, emit alpha and beta particles as well as gamma rays when undergoing radioactive decay. At the Tesla Site, concentrations of radium are below 30 picocuries per gram (pCi/g) and as such, standard industrial hygiene controls will limit radiation doses to virtually zero during field projects that may

occur below the site demarcation layer (i.e., intrusive activities). These controls include periodic monitoring to ensure no build-up of radium contaminated dust is occurring on equipment, vehicles, or personnel, standing upwind during excavation operations, and limiting time where direct contact of materials may occur.

SPOILS STOCKPILE MATERIAL

The following six (6) intrusive projects were performed at the Tesla Site from 2023 to 2024, each of which penetrated the final cover system (and demarcation layer) generating various quantities of soil spoils that were stockpiled at the Tesla Site:

- Bus Shelter & Conduit Construction
- East Gate Swale Construction
- East Parking Lot Expansion Construction (2023 and 2024)
- Fiber Optic Cable (North) Installation
- Fiber Optic Cable (South) Installation
- Perimeter Fence Installation

These projects were performed from September 18, 2023 to December 19, 2023 followed by a winter shutdown of all intrusive activity with one exception; the Fiber Optic Cable (South) project was performed from January 25, 2024 to March 19, 2024. Each project was performed in accordance with the NYSDEC-approved *Site Management Plan (SMP)* (revised September 2021) for Area I of the former Steelfields (aka RiverBend, LLC) Site, the NYSDEC-approved *Excavation Work Notification* (April 12, 2023) prepared by Orion Environmental Solutions, LLC, and NYSDEC Department of Materials Management (DMM) policy DMM-5: *Management of Soils Contaminated with Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM)*.

When encountered and in accordance with the aforementioned documents, soil/fill/slag spoils excavated from beneath the existing cover system and demarcation layer during each project were field screened using a handheld MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp for volatile organic compounds (VOCs) and a Ludlum 2241-2 RK Ratemeter/Scaler equipped with a Detector 2 (44-2 gamma scintillator probe) for gamma radiation along with visual/olfactory observations. When generated and following satisfactory field screening results during each project, subsurface soil/fill/slag spoils were transported and temporarily staged on and covered with polyethylene plastic tarps on the western portion of the Tesla Site at a location hereafter referred to as the “Spoils Stockpile” (see **Figures 2 and 3**). Following project activities, the volume of stockpiled soil/fill spoils was determined to be approximately 1,750 cubic yards (CYs). No grossly impacted soil/fill spoils beneath the existing final cover and demarcation layer were encountered and/or observed (i.e., elevated PID readings, visible product impacts, olfactory evidence of impact, or elevated radiation counts) during any of the projects.

The Spoils Stockpile was maintained by TRC personnel during the winter shutdown from December 19, 2023 to April 16, 2024 and by the construction contractor, Montante Construction, LLC, during construction activities before and after the winter shutdown. Stockpile maintenance included periodic visual monitoring and maintenance of the Stockpile plastic cover for damage and weather-related runoff from the stockpile; repairs and/or replacement of polyethylene tarp cover activities were performed as needed and no runoff of stockpiled material was observed.

DRILLING MUD MATERIAL

During installation of the Fiber Optic Cable (South), seven pits approximately 4-feet wide by 4-feet long by 4-feet deep were excavated along the intended cable route (or alignment) to facilitate directional boring equipment operation and installation of the fiber optic conduit. A potable water/bentonite slurry was used to advance the directional boring equipment at each pit. Excavated subsurface soil/fill spoil material from beneath the existing final cover and demarcation layer was transported to the on-site Spoils Stockpile and approximately 60 CYs of excess bentonite/water slurry material was removed from the excavated pits via vacuum truck (and/or excavator/loader) and placed in two water-tight and lined roll-off containers. The approximate location of the roll-

off containers is shown on **Figures 2 and 3**. Upon sampling, the Drilling Mud in both roll-off containers had solidified significantly and was more like a solid than a liquid. To stabilize the Drilling Mud material further, a solidification reagent called SolidState6 is planned to be mixed with the material to trap and/or solidify any remaining liquid. Per the manufacturer, SolidState6 does not alter the toxicity, reactivity, corrosivity, or ignitability of the material it is mixed with; the safety data sheet (SDS) is provided in **Attachment 1**.

WASTE CHARACTERIZATION FIELD ACTIVITIES

Based on TRC's calculations, the Spoils Stockpile is approximately ±1,750 CYs; multiplying this quantity by a 1.6 tons per CY conversion factor, yields approximately ±2,800 tons. The Drilling Mud volume was estimated to be approximately ±60 CYs; multiplying this quantity by a 1.6 tons per CY conversion factor, yields approximately ±96 tons. The estimated quantities (in tons) were used to determine the number of waste characterization samples, should off-site disposal be required: *one waste characterization sample covers the first 500 tons, and subsequent waste characterization samples cover each 1,000 tons thereafter*. As such and on July 9, 2024, TRC personnel collected four (4) representative waste characterization samples from the Spoils Stockpile identified as WC-1 through WC-4 for the following laboratory analysis:

- Target Compound List (TCL) VOCs (Method 8260)
- TCL SVOCs (Method 8270)
- TCL polychlorinated biphenyls (PCBs) (Method 8082)
- Toxicity Characteristic Leaching Procedure (TCLP) VOCs (Method 8260)
- TCLP SVOCs (Method 8270)
- TCLP Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) (Method 6010/7470)
- Ignitability (Method 1030), corrosivity (Method 9045), reactivity (Method 7.3), and paint filter (Method 9095).

TRC divided the Spoils Stockpile into four equal quadrants, collected four individual grab samples per quadrant, and composited each of the four samples per quadrant into four unique representative waste characterization samples. TRC also collected representative Drilling Mud grab samples from both roll-off containers and composited them into one (1) representative waste characterization sample identified as WC-5.

Following NYSDEC review and comment of TRC's August 28, 2024 *Waste Characterization & Radiological Screening Summary Report*, the Department requested supplemental sampling and analysis of the Spoils Pile and Drilling Mud material in accordance with DER-10 Table 5.4(e)10; *Recommended Number of Soil Samples for Soil Imported To or Exported From a Site*. Based on the estimated volume of 1,750 CYs for the Spoils Pile and 60 CYs for the Drilling Mud, and using Table 5.4(e)10, an additional 9 grab VOCs and 3 composite SVOC/Inorganic/PCB/Pesticide/per- and polyfluoroalkyl substance (PFAS) samples were collected from the Spoils Pile, and one additional grab VOC and one composite SVOC/Inorganic/PCB/Pesticide/PFAS sample was collected from the Drilling Mud. Supplemental sampling was performed on October 1, 2024, and included:

- **Five grab Part 375 VOCs (Method 8260/5035)**; four from the Spoils Pile and one from the Drilling Mud – *four of these samples plus the five already collected and analyzed on July 9, 2024 from the Spoils Pile provided the required 9 samples for VOC analysis.*
- **Four composite Part 375 SVOCs (Method 8270)**; three from the Spoils Pile and one from the Drilling Mud**.**

- **Four composite Part 375 Metals (Method 6010/7470)**; three from the Spoils Pile and one from the Drilling Mud**.**
- *No additional PCB samples – the five PCB results (four from the Spoils Pile and one from the Drilling Mud) collected during the July 9, 2024 sampling event provided the required samples for PCB analysis.*
- **Four composite Part 375 Pesticides (Method 8081)**; three from the Spoils Pile and one from the Drilling Mud**.**
- **Four composite PFAS (Method 1633)**; three from the Spoils Pile and one from the Drilling Mud**.**

The four (4) additional representative grab and three (3) composite samples from the Spoils Stockpile were identified as WC-G-1 through WC-G-4 and WC-C-1 through WC-C-3, respectively. The one (1) additional representative grab sample and one (1) composite sample from the Drilling Mud were identified as WC-G-5 and WC-C-4, respectively.

Collected Spoils Stockpile and Drilling Mud samples from both the July and October 2024 sampling events were placed in pre-cleaned, pre-preserved laboratory provided sample containers, cooled to 4°C in the field, and transported via chain-of-custody to a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory for analysis. Waste characterization sample locations are shown on **Figure 3**.

WASTE CHARACTERIZATION RESULTS

Based on the laboratory analysis for samples collected on July 9, 2024, and summarized in **Table 1**, all five waste characterization samples (WC-1 through WC-5) are not characteristically hazardous. Analytical results for the four Spoils Stockpile and the one Drilling Mud sample(s) supporting this determination included:

- TCLP VOCs & TCLP SVOCs: no detections in all five samples.
- TCLP RCRA metals: arsenic (WC-4 and WC-5), barium (WC-1 thru WC-5), and mercury (WC-1 thru WC-5) were detected, but at concentrations well below the USEPA TCLP limit.
- TCL PCBs: several PCB Aroclors were detected in all five samples, but at concentrations well below the Part 375 Industrial Soil Cleanup Objective (ISCO).
- Ignitability: all five samples were not ignitable.
- Corrosivity: all five samples were non-corrosive (2.0 < pH < 12.5).
- Reactivity: all five samples were non-reactive.
- Paint Filter: all five samples were “negative” for the presence of free liquids.

Based on the laboratory analysis for the additional samples collected on October 1, 2024, and summarized in **Table 2**, only total manganese from Drilling Mud sample WC-C-4 was detected at a concentration slightly exceeding the individual ISCO. All other analyzed compounds, including emerging contaminants 1,4-dioxane and PFAS, were reported as non-detect or at concentrations well below the individual ISOCs (or guidance values for PFAS).

Analytical data summary packages for the July and October 2024 sampling events are provided in **Attachment 2**.

RADIOLOGICAL SCREENING FIELD ACTIVITIES & RESULTS

On July 9, 2024, TRC’s radiological support subcontractor, PSH, LLC (PSH), established site radiological “background” and scanned the Spoils Stockpile and Drilling Mud roll-off containers using a Ludlum Model 2221

ratemeter connected to a Ludlum model 44-10 sodium iodide detector. The detector measurements were collected using both a collimated (shielded) and an uncollimated detector; the use of the collimator was utilized to minimize interference from other potential sources within the stockpile and surrounding areas. USEPA's ProUCL software was used to perform statistical calculations for the background count rate determination. PSH's report is presented in **Attachment 3**.

Background Count Determination

An area near the Tesla Site entrance, considered to be unimpacted by anthropogenic sources of radioactivity, was selected by PSH as the "background" location (see **Figure 2**). Ten (10), 1-minute static gamma readings were collected using the Ludlum count ratemeter with both a collimated and an uncollimated detector. The Mean and Upper Tolerance Level[1] (UTL) were calculated for the background location; *the collimated UTM was 1,943 counts per minute (CPM) and the uncollimated UTM was 7,296 CPM*. Elevated count rates exceeding the background UTL (collimated and uncollimated) identified at the Tesla Site would most likely indicate an anthropogenic source of radioactivity (i.e., TENORM). Background counts and statistical analysis performed by PSH are provided in **Attachment 3**.

Radiological Surveys

PSH performed a radiological survey of the Spoils Stockpile utilizing the Ludlum 44-10 sodium iodide detector, and one minute scalar count measurements (collimated and uncollimated) were collected and recorded. Each measurement of the stockpile surface exceeded the collimated and uncollimated UTL, which indicates there is the potential for the existence of TENORM materials within the stockpile. **Attachment 3** provides a sketch outline of the stockpile and recorded measurements from each location.

PSH also field screened the Drilling Mud roll-off containers with the Ludlum detector. Although no measurements were recorded, PSH indicated to TRC personnel that the count measurements obtained were all below background indicating the Drilling Mud did not contain an anthropogenic source of radioactivity (i.e., TENORM).

Radiological Sampling & Analysis

Following PSH's radiological screening of the Spoils Stockpile, representative radiological samples were obtained from TRC's composited waste characterization sample aliquots (previously discussed) from each stockpile quadrant. The four radiological samples identified by PSH as TRC-2024-001 through TRC-2024-004, which correspond to waste characterization samples WC-1 through WC-4, respectively, were analyzed for gamma spectroscopy of Ra226/Ra228 via USEPA Method 901.1M.

Additionally, TRC personnel collected one representative grab sample from both Drilling Mud roll-off containers and composited them into one sample for gamma spectroscopy (Ra226/Ra228) laboratory analysis, which was identified as WC-5.

Gamma Spectroscopy Results

As shown on **Table 1**, the gamma spectroscopy (Ra226/Ra228) results for all five samples are well below NYSDEC DMM-5 limit of 5 pCi/g, which is considered "background comparable". These concentrations indicate that a TENORM Disposal Plan and/or TENORM Management Plan are not required for Spoils Stockpile or Drilling Mud material on-site management.

PLANNED ACTIVITIES

Upon NYSDEC and NYSDOH review and approval, Tesla plans to utilize the material from the Spoils Stockpile to construct a berm along the alignment of the buried Fiber Optic Cable (South) (approximately ±1,985 LF) (see **Figure 2**). Prior to berm placement, the Drilling Mud within the two roll-off containers will be further stabilized with

[1] The UTL is essentially the 95th percentile of the 95% confidence level of the distribution: roughly equal to three sigma above the mean. In environmental work it is used to distinguish between anthropogenic contamination and naturally occurring substances.

SolidState6, an inert solidification reagent, and blended with Spoils Stockpile material. Once homogenized, the spoils mixture will be transported, placed, and compacted into an 8-foot-wide by 3-foot-high berm along the Fiber Optic Cable (South) alignment. Based on these rough dimensions, approximately ±1,765 CYs of material will be required to construct the berm; the Spoils Stockpile has been calculated to contain approximately ±1,750 CYs and the Drilling Mud approximately ±60 CYs. The final size and shape of the berm will be determined based on the actual volume of the Spoils Stockpile (and Drilling Mud) material available. Following compaction of the material and placement of a demarcation layer, the berm will be capped with one foot of stockpiled topsoil already on the Tesla property (approximately ±600 CYs of the approximate ±1,200 CYs available), accumulated from other on-site projects, and located at the rear of the Tesla property (see **Figures 2 and 3**). Because this topsoil was already approved by the NYSDEC, an Import Request Form for the topsoil will not be required. The topsoil will then be seeded, and act as a visual marker of the buried utility alignment. The final berm alignment will be surveyed and added to the Final Cover figure in the next Periodic Review Report (anticipated to be May/June 2025).

In support of our planned activities and according to NYSDEC DMM-5, the Department may either grant a variance to allow the excavated TENORM (Background-comparable) to be returned to the excavation/Area of Contamination (AOC), or the assigned Environmental Radiation Specialist (ERS) determines, and approves, that the proposed use and handling in the AOC is acceptable; we anticipate the latter will be the case. The Department also requires that appropriate and approved institutional control(s) be put in place (e.g., deed restriction, environmental easement) for each AOC. The Tesla Site already has a deed restriction, environmental easement, and variance (Area of Exception) associated with previous TENORM remediation, reuse, and redevelopment activities. The Environmental Easement associated with the Tesla Site requires compliance with the SMP, compliance with the institutional and engineering controls (IC/ECs) placed on the Site, identifies restrictions to commercial and/or industrial use only, and restricts the use of groundwater as a source of potable and/or process water.

We trust that the information provided will allow the Department (and NYSDOH) to provide an approval for the utilization of the Spoils Stockpile and Drilling Mud as a demarcation berm along the Fiber Optic (South) installation corridor at the Tesla Site. Please contact us if you have any questions or require additional information.

Sincerely,
TRC Environmental Corporation

Bryan C. Hann, P.G. (NY)
Senior Geologist / Project Manager

TRC Project #568713.0000.0000

Tables
Figures
Attachments

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA

Environmental Soil Sampling
Tesla Site
Buffalo, New York

Parameter	CasNum	ISCO	TCLP MCL	Units	Sample ID, Collection Date, & Lab ID				
					WC-1 07/09/2024 L2438378-01 Qual	WC-2 07/09/2024 L2438378-02 Qual	WC-3 07/09/2024 L2438378-03 Qual	WC-4 07/09/2024 L2438378-04 Qual	WC-5 07/09/2024 L2438378-05 Qual
General Chemistry									
Solids, Total	NONE	--	--	%	89.8	88.6	90.6	89.4	67.9
pH (H)	12408-02-5	--	--	SU	8.61	11.3	8.85	8.82	10.8
Cyanide, Reactive	57-12-5	--	--	mg/kg	10 U	10 U	10 U	10 U	10 U
Sulfide, Reactive	NONE	--	--	mg/kg	10 U	10 U	10 U	10 U	10 U
Paint Filter Liquid	PFLT	--	--	--	Negative	Negative	Negative	Negative	Negative
Ignitability of Solids									
Ignitability	NONE	--	--	--	NI	NI	NI	NI	NI
TCLP Volatiles by EPA 1311									
1,1-Dichloroethene	75-35-4	1000	0.7	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	107-06-2	60	0.5	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	106-46-7	250	7.5	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Butanone (MEK)	78-93-3	1000	200	mg/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	71-43-2	89	0.5	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	56-23-5	44	0.5	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	108-90-7	1000	100	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	67-66-3	700	6	mg/l	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Tetrachloroethene	127-18-4	300	0.7	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	79-01-6	400	0.5	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl chloride	75-01-4	27	0.2	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
TCLP Semivolatiles by EPA 1311									
Hexachlorobenzene	118-74-1	12	0.13	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,4,5-Trichlorophenol	95-95-4	--	400	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2,4,6-Trichlorophenol	88-06-2	--	2	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2,4-Dinitrotoluene	121-14-2	--	0.13	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Methylphenol (o-Cresol)	95-48-7	1000	200	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	1000	200	mg/l	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Hexachlorobutadiene	87-68-3	--	0.5	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachloroethane	67-72-1	--	3	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nitrobenzene	98-95-3	--	2	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pentachlorophenol	87-86-5	55	100	mg/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyridine	110-86-1	--	5	mg/l	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U
TCLP Metals by EPA 1311									
Arsenic, TCLP	7440-38-2	--	5	mg/l	1 U	1 U	1 U	0.0598 J	0.0393 J
Barium, TCLP	7440-39-3	--	100	mg/l	0.687	0.593	0.475 J	0.715	0.683
Cadmium, TCLP	7440-43-9	--	1	mg/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium, TCLP	7440-47-3	--	5	mg/l	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead, TCLP	7439-92-1	--	5	mg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Mercury, TCLP	7439-97-6	--	0.2	mg/l	0.0008 J	0.0009 J	0.0008 J	0.0008 J	0.0007 J

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA

Environmental Soil Sampling
Tesla Site
Buffalo, New York

Parameter	CasNum	ISCO	TCLP MCL	Units	Sample ID, Collection Date, & Lab ID				
					WC-1 07/09/2024 L2438378-01 Qual	WC-2 07/09/2024 L2438378-02 Qual	WC-3 07/09/2024 L2438378-03 Qual	WC-4 07/09/2024 L2438378-04 Qual	WC-5 07/09/2024 L2438378-05 Qual
Selenium, TCLP	7782-49-2	--	1	mg/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver, TCLP	7440-22-4	--	5	mg/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Polychlorinated Biphenyls by GC									
Aroclor 1242	53469-21-9	25	--	mg/kg	0.0387 J	0.0914	0.0264 J	0.0199 J	0.161
Aroclor 1254	11097-69-1	25	--	mg/kg	0.0547	0.0373 J	0.034 J	0.026 J	0.0472 J
Aroclor 1260	11096-82-5	25	--	mg/kg	0.0243 J	0.0191 J	0.0258 J	0.0182 J	0.0241 J
Aroclor 1268	11100-14-4	25	--	mg/kg	0.0122 J	0.00785 J	0.0138 J	0.0149 J	0.014 J
PCBs, Total	1336-36-3	25	--	mg/kg	0.13 J	0.156 J	0.1 J	0.079 J	0.246 J
Volatile Organic Compounds (VOCs) by EPA 5035									
Acetone	67-64-1	1000	--	mg/kg	0.011 U	0.0098 U	0.011 U	0.012 U	0.028
Trichloroethene	79-01-6	400	--	mg/kg	0.00056 U	0.00022 J	0.00054 U	0.00059 U	0.00082 U
Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)									
Actinium-228 (Ra-228)	--	< 5	--	pCi/g	0.626	0.566 J	0.508	0.792	1.06
Bismuth-214 (Ra-226)	--	< 5	--	pCi/g	1.75	1.19	1.17	1.02	2.27

Notes:

1. Only those VOC (Method 5035) and PCB parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs, December 2006). ISCO = industrial soil cleanup objective.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
U = Not detected at the method detection limit (MDL) for the sample

Color Code:

<value> = Exceeds Industrial Soil Cleanup Objective (ISCO)
<value> = Exceeds the USEPA TCLP Limit

TABLE 2

SUMMARY OF SUPPLEMENTAL SOIL ANALYTICAL DATA

Environmental Soil Sampling
Tesla Site
Buffalo, New York

Parameter	CasNum	ISCO	Units	Sample ID, Collection Date, & Lab ID								
				WC-G-1 10/01/2024 L2456688-01	Qual	WC-G-2 10/01/2024 L2456688-02	Qual	WC-G-3 10/01/2024 L2456688-03	Qual	WC-G-4 10/01/2024 L2456688-04	Qual	WC-G-5 10/01/2024 L2456688-05	Qual	WC-C-1 10/01/2024 L2456688-06	Qual	WC-C-2 10/01/2024 L2456688-07	Qual	WC-C-3 10/01/2024 L2456688-08	Qual	WC-C-4 10/01/2024 L2456688-09	Qual
General Chemistry																					
Solids, Total	NONE	--	%	85.2		85.8		93.1		87.7		74.4		87.3		86.5		87.2		69.9	
Chromium, Trivalent	16065-83-1	6800	mg/kg	-		-		-		-		-		122		129		204		483	
Cyanide, Total	57-12-5	10,000	mg/kg	-		-		-		-		-		1.1		2.4		2.3		1.4	
Chromium, Hexavalent	18540-29-9	800	mg/kg	-		-		-		-		-		0.916	U	0.925	U	0.917	U	1.14	U
Organochlorine Pesticides by GC																					
Heptachlor	76-44-8	29	mg/kg	-		-		-		-		-		0.00088	U	0.00092	U	0.00091	U	0.00928	
4,4'-DDE	72-55-9	120	mg/kg	-		-		-		-		-		0.00375		0.00279		0.00083	J	0.00598	
4,4'-DDT	50-29-3	94	mg/kg	-		-		-		-		-		0.00177	U	0.00183	U	0.00247		0.00215	U
Semi-Volatile Organic Compounds (SVOCs) by GC/MS																					
1,4-Dioxane	123-91-1	250	mg/kg	-		-		-		-		-		0.028	U	0.028	U	0.028	U	0.036	U
Acenaphthene	83-32-9	1,000	mg/kg	-		-		-		-		-		0.15	U	0.027	J	0.15	U	0.19	U
Acenaphthylene	208-96-8	1,000	mg/kg	-		-		-		-		-		0.094	J	0.09	J	0.073	J	0.19	U
Anthracene	120-12-7	1,000	mg/kg	-		-		-		-		-		0.11		0.14		0.13		0.14	U
Benzo(a)anthracene	56-55-3	11	mg/kg	-		-		-		-		-		0.48		0.53		0.52		0.13	J
Benzo(a)pyrene	50-32-8	1.1	mg/kg	-		-		-		-		-		0.52		0.62		0.57		0.13	J
Benzo(b)fluoranthene	205-99-2	11	mg/kg	-		-		-		-		-		0.71		0.81		0.76		0.17	
Benzo(ghi)perylene	191-24-2	1,000	mg/kg	-		-		-		-		-		0.35		0.44		0.37		0.088	J
Benzo(k)fluoranthene	207-08-9	110	mg/kg	-		-		-		-		-		0.24		0.28		0.28		0.074	J
Chrysene	218-01-9	110	mg/kg	-		-		-		-		-		0.52		0.55		0.53		0.13	J
Dibenzo(a,h)anthracene	53-70-3	1.1	mg/kg	-		-		-		-		-		0.085	J	0.1	J	0.09	J	0.14	U
Dibenzofuran	132-64-9	1,000	mg/kg	-		-		-		-		-		0.19	U	0.04	J	0.028	J	0.24	U
Fluoranthene	206-44-0	1,000	mg/kg	-		-		-		-		-		0.9		0.92		1		0.26	
Fluorene	86-73-7	1,000	mg/kg	-		-		-		-		-		0.042	J	0.046	J	0.032	J	0.24	U
Indeno(1,2,3-cd)pyrene	193-39-5	11	mg/kg	-		-		-		-		-		0.34		0.42		0.37		0.087	J
Naphthalene	91-20-3	1,000	mg/kg	-		-		-		-		-		0.07	J	0.092	J	0.072	J	0.031	J
Phenanthrene	85-01-8	1,000	mg/kg	-		-		-		-		-		0.49		0.47		0.38		0.12	J
Pyrene	129-00-0	1,000	mg/kg	-		-		-		-		-		0.75		0.8		0.86		0.21	
Perfluorinated Alkyl Acids (PFAS) by EPA 1633																					
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	--	ng/g	-		-		-		-		-		0.791	U	0.797	U	0.159	J	0.792	U
Perfluorobutanoic Acid (PFBA)	375-22-4	--	ng/g	-		-		-		-		-		0.055	J	0.797	U	0.041	J	0.792	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	--	ng/g	-		-		-		-		-		0.041	J	0.199	U	0.075	J	0.198	U
Perfluorononanoic Acid (PFNA)	375-95-1	--	ng/g	-		-		-		-		-		0.03	J	0.027	J	0.04	J	0.198	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	440 *	ng/g	-		-		-		-		-		0.204		0.211		0.259		0.115	J
Perfluorooctanoic Acid (PFOA)	335-67-1	600 *	ng/g	-		-		-		-		-		0.088	J	0.053	J	0.047	J	0.198	U
Total Metals																					
Arsenic, Total	7440-38-2	16	mg/kg	-		-		-		-		-		10.9		10.2		9.2		11	
Barium, Total	7440-39-3	10,000	mg/kg	-		-		-		-		-		108		106		126		152	
Beryllium, Total	7440-41-7	2,700	mg/kg	-		-		-		-		-		1.15		0.959		1.23		1.47	
Cadmium, Total	7440-43-9	60	mg/kg	-		-		-		-		-		1.09	J	0.709	J	0.106	J	0.378	J
Chromium, Total	7440-47-3	6,800	mg/kg	-		-		-		-		-		122		129		204		483	
Copper, Total	7440-50-8	10,000	mg/kg	-		-		-		-		-		101		87.8		779		92.4	
Lead, Total	7439-92-1	3,900	mg/kg	-		-		-		-		-		318		171		170		154	
Manganese, Total	7439-96-5	10,000	mg/kg	-		-		-		-		-		2300		2840		4080		10700	
Mercury, Total	7439-97-6	5.7	mg/kg	-		-		-		-		-		0.835		0.552		0.159		0.314	
Nickel, Total	7440-02-0	10,000	mg/kg	-		-		-		-		-		23		21.5		21		34.8	
Selenium, Total	7782-49-2	6,800	mg/kg	-		-		-		-		-		3.47	U	0.489	J	1.72	U	4.42	U
Silver, Total	7440-22-4	6,800	mg/kg	-		-		-		-		-		0.867	U	0.872	U	0.431	U	1.11	U
Zinc, Total	7440-66-6	10,000	mg/kg	-		-		-		-		-		267		248		188		225	
Volatile Organic Compounds (VOCs) by EPA 5035																					
Acetone	67-64-1	1,000	mg/kg	0.012	U	0.014	U	0.0098	U	0.011	U	0.013	U	-		-		-		-	
Trichloroethene	79-01-6	400	mg/kg	0.00058	U	0.00026	J	0.00049	U	0.00053	U	0.00064	U	-		-		-		-	

Notes:

1. Only those Pesticide, SVOC (except 1,4-dioxane which is presented), PFAS, and VOC parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs, December 2006). ISCO = industrial soil cleanup objective. An Asterick "*" indicates a NYSDEC Guidance Value.

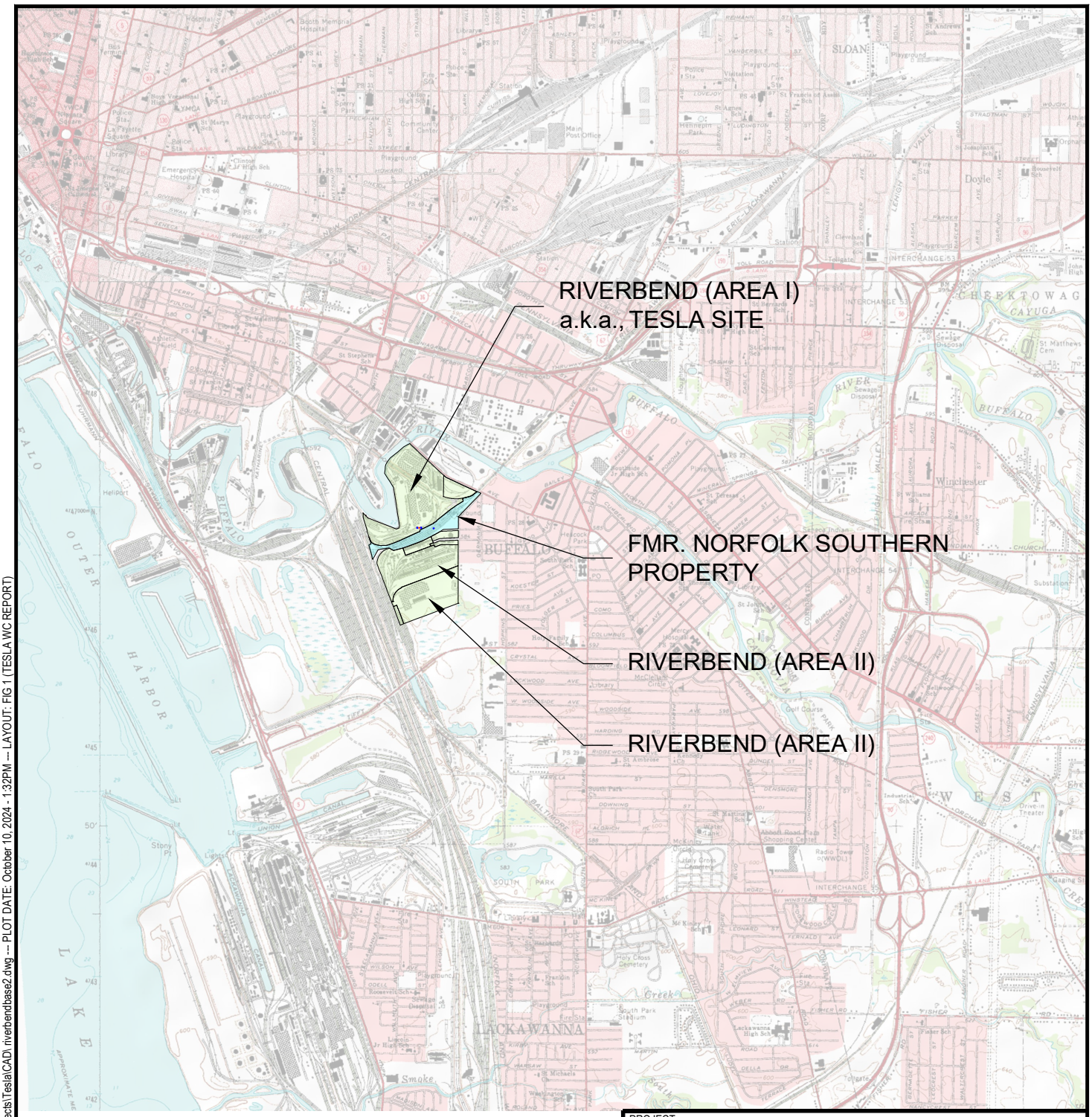
Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
U = Not detected at the method detection limit (MDL) for the sample

Color Code:

<value> = Exceeds Industrial Soil Cleanup Objective (ISCO)

FIGURES



N

4000' 0' 4000' 8000'

SCALE: 1 INCH = 4000 FEET
SCALE IN FEET
(approximate)

PROJECT:
WC & RS SUMMARY REPORT
RIVERBEND (AKA STEELFIELDS) - AREA I (TESLA SITE)
BUFFALO, NEW YORK

TITLE:
SITE LOCATION & VICINITY MAP

DRAWN BY:	BCH	PROJ NO.:	605869.0000.0000
CHECKED BY:	BCH		
APPROVED BY:	BCH		**FIGURE 1**
DATE:	AUGUST 2024		

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

8.5x11 --- USER:Bhann --- ATTACHED_XREFS: Buff_7.7_REV0_SOA&CITY BUILDINGS --- ATTACHED IMAGES: Hospital Route Map; RB TOPO; w_X014108_12_19200_4x4_2021; w_X014140_12_19200_4x4_2021; w_X014140_12_9200_4x4_2021; w_X077436_12_19200_4x4_2021; w_X077436_12_19200_4x4_2021; w_X077436_12_9200_4x4_2021; w_X077436_12_9200_4x4_2021; w_X077540_12_19200_4x4_2021; w_X080108_12_19200_4x4_2021; w_X080108_12_9200_4x4_2021; w_X080108_12_9200_4x4_2021; w_X080140_12_19200_4x4_2021; w_X080140_12_19200_4x4_2021;
DRAWING NAME: C:\Users\BHann\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg --- PLOT DATE: October 10, 2024 - 1:32PM --- LAYOUT: FIG 1 (TESLA WC REPORT)
Version: 2017-10-21

LEGEND:

PROPERTY BOUNDARY OF AREAS I, II, & III

A1-MW-2 NETWORK MONITORING WELL

APPROX. LOCATION OF DRILLING FLUID ROLL-OFF CONTAINERS

PLANNED BERM (CYAN COLOR)
(± 8.0 FT WIDE x ±3.0 FT. HIGH x ±1,985 FT. LONG)

2023/2024 FIBER OPTIC (SOUTH)

MAY 2022 NYSDEC-APPROVED TOPSOIL PILE

APPROX LOCATION OF SPOILS STOCKPILE

2024 RADIOLOGICAL SCREENING BACKGROUND LOCATION

BUFFALO RIVER

AREA I
(FORMERLY REPUBLIC STEEL PLANT PARCEL)

AREA II
(FORMERLY DONNER-HANNA COKE PLANT PARCEL)

FMR. NORFOLK SOUTHERN PROPERTY

FMR. AUGUST FEINE & SONS, CO.

TENORM VARIANCE AREA

AREA II CONTAINMENT CELL
(± 13.91 ACRES)

BERM AREA

SG-01, SG-02

A1-MW-1, A1-MW-2, A1-MW-3, A1-MW-4R, A1-MW-5, A1-MW-6, A1-MW-7, A1-MW-8R, A1-MW-10, A1-MW-11

A2-MW-5, A2-MW-6, A2-MW-10R, A2-MW-12, A2-MW-13, A2-MW-16, A2-MW-17, A2-MW-18, A2-MW-20

N

350' 0' 350' 700'

SCALE: 1 INCH = 350 FEET
SCALE IN FEET
(approximate)

PROJECT:
WC & RS SUMMARY REPORT
RIVERBEND (AKA STEELFIELDS) - AREA I (TESLA SITE)
BUFFALO, NEW YORK

TITLE:
EXISTING COVER SYSTEM & 2023/2024 CONSTRUCTION ACTIVITIES

DRAWN BY:	BCH	PROJ NO.:	568713.0000.0000
CHECKED BY:	BCH		
APPROVED BY:	BCH		**FIGURE 2**
DATE:	APRIL 2024		

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

DRAWING NAME: C:\Users\BHamn\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg -- PLOT DATE: October 10, 2024 - 4:28PM -- LAYOUT: FIG 2 (TESLA WC REPORT)
Version: 2017-10-21

LEGEND:

- PROPERTY BOUNDARY OF AREAS I, II, & III
- ● A1-MW-2 NETWORK MONITORING WELL
- ⊕ WC-1 WASTE CHARACTERIZATION SAMPLE (JULY 2024)
- ⊕ WC-G-1 SUPPLEMENTAL WASTE CHARACTERIZATION GRAB SAMPLE (OCTOBER 2024)
- ⊕ WC-C-1 SUPPLEMENTAL WASTE CHARACTERIZATION COMPOSITE SAMPLE (OCTOBER 2024)

MAY 2022
NYSDEC-APPROVED
TOPSOIL PILE

TESLA PLANT
BUILDING

APPROX. LOCATION
OF DRILLING FLUID
ROLL-OFF CONTAINERS

APPROX. LOCATION
OF SPOILS STOCKPILE
(DIVIDED INTO FOUR EQUAL
QUADRANTS - 1 THROUGH 4)

AREA I
(FORMERLY REPUBLIC STEEL PLANT PARCEL)

FMR. NORFOLK SOUTHERN
PROPERTY

WC-G-2 WC-C-1 WC-G-1
WC-2 2 1 WC-1
WC-C-2 WC-C-3
WC-3 3 4 WC-4
WC-G-3 WC-G-4

WC-G-4 WC-5
WC-G-5

A1-MW-5 ●

TENORM VARIANCE
AREA

N

60' 0' 60' 120'

SCALE: 1 INCH = 60 FEET
SCALE IN FEET
(approximate)

PROJECT:
WC & RS SUMMARY REPORT
RIVERBEND (AKA STEELFIELDS) - AREA I (TESLA SITE)
BUFFALO, NEW YORK

TITLE:
SPOILS PILE &
DRILLING MUD LOCATION MAP

DRAWN BY:	BCH	PROJ NO.:	568713.0000.0000
CHECKED BY:	BCH		
APPROVED BY:	BCH		**FIGURE 3**
DATE:	APRIL 2024		

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

DRAWING NAME: C:\Users\BHann\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg — PLOT DATE: October 10, 2024 - 4:30PM — LAYOUT: FIG 3 (TESLA WC REPORT)
Version: 2017-10-21

ATTACHMENT 1

SOLIDSTATE6
SAFETY DATA SHEET

SAFETY DATA SHEET: SOLIDSTATE6

1. IDENTIFICATION

Product name: SolidState6

Recommended Use: Industrial

Supplier name and address: MetaFLO Technologies International

874 Walker Rd., Suite C

Dover, DE, 19904

Emergency phone number: 1-888-862-4011

Inquiry phone number: 1-647-217-5625

2. HAZARD IDENTIFICATION

Classification: Non-hazardous

Label: This product does not require a hazard-warning label in accordance with GHS criteria

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS No.	Concentration	Other Identifiers
Trade Secret	N/A	N/A	100%	N/A

Note: The components of this product are not regulated as hazardous under 29CFR and 49CFR. However, the manufacturer recognizes the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust. See Sections 8, 11, 14, and 15 for further regulatory information

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention, if needed.

Skin Contact: No special measures required. Get medical attention if irritation develops or persists.

Eye Contact: Flush eyes immediately with large amounts of water. If irritation persists, get medical attention.

Ingestion: No special measures required. If ingestion of a large amount does occur, seek medical attention.

Most important symptoms and effects, acute or delayed: N/A

5. FIRE-FIGHTING MEASURES

Flammable properties: Fine dust can form explosive mixtures with air. Take measures against electrostatic charge. Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m3 of air is often used as the lower explosion limit (LEL) for wood dust. Avoid prolonged breathing of wood dust or decomposition products.

Upper Flammable limit (UFL): Not Established

Lower Flammable Limit (LFL): Not Established

Method Used: None

Flash Point: None

Flammability Classification: None

Hazardous combustion productions: may include carbon monoxide, aldehydes, or organic acids

Suitable extinguishing Media: dry chemical, CO_2, water spray or regular foam. Extremely slippery conditions are created if spilled product comes in contact with water.

Unsuitable extinguishing Media: N/A

Specific hazards arising from the product: N/A

Special protective equipment and precautions for Fire-Fighters: N/A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Wear a dust mask, safety gloves and goggles. Do not sweep product.

Environmental precautions: Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

Methods for containment and cleaning Up: Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

7. HANDLING AND STORAGE

Handling: Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: No special restrictions on storage with other products. Store in a dry covered area. Guard against dust accumulation of this material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General product information: This product is not regulated as a hazardous material. However, the manufacturer recognized the potential for respiratory tract irritation and recommends an eight-hour exposure limit of 0.05mg/m^3.

Individual protection measures:

Eye/Face protection: Wear dust goggles. Eye wash fountain is recommended.

Skin Protection: No special protective equipment required. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory Protection: Use appropriate engineering controls to avoid dust accumulation

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: granular/chips, solid

Odor: None

pH: 5.5-6.5 (1% in water)

Melting Point: >390°F

Boiling Point /Boiling range: N/A

Flash Point: N/A

Evaporation rate: <1.0

Flammability (solid/gas): N/A

Explosive Limit: N/A

Vapor Pressure: <10mmHg

Vapor Density (Air=1): N/A

Relative Density (Water=1): 0.5-0.8

Solubility in water: N/A

Solubility in other liquids: N/A

Partition Coefficient, n-Octanol/water : N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

10. STABILITY AND REACTIVITY

Reactivity: Not Known

Chemical Stability: Stable at normal conditions

Conditions to avoid: High temperatures, flames, and sparks

Conditions to avoid: Not known

Incompatible Materials: Not known

Hazardous Decomposition products: Carbon Monoxide, carbon dioxide, aldehydes

11. TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

A: General Product Information

Acute inhalation of respirable dust may cause irritation of the upper respiratory tract and lungs.

B: Acute Toxicity-LD50/LC50

Acute oral toxicity:	LD 50 rat
	Dose: 5000 mg/kg
	Method: Limit test
Acute dermal toxicity:	LD 50 rat
	Dose: .2000 mg/kg
	Method: Limit test

Skin Irritation: Rabbit

Method: OECD Nr.404

Not irritant

Eye Irritation: Rabbit

Method: OECD Nr.405

Very slight irritant

Sensitization: Guinea pig

Method: OECD Nr. 406

Result: 0/20

No sensitization

Carcinogenicity

No information is available.

Chronic Toxicity

Chronic inhalation exposure to rats for a lifetime (two years) produced non-specific inflammation and chronic lung injury at 0.2 mg/m3 and 0.8 mg/m3. Also, ato.8 mg/m3, tumors were seen in some test animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects detected at 0.05 mg/m3.

Mutagenicity

Had no effect in mutagenicity tests.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Biodegradability: practically no degradation. Method – OECD No. 302B

Physico-chemical removability: the product is easy to eliminate in water-treatment plants due to its insolubility.

Ciliate toxicity: tetrahymena pyriformis. EC50>6,000 mg/L. Method – Erlanger Ciliate tests (Prof Graf)

Bacterial toxicity: Ps. Putida. EC>6,000 mg/L. Exposure time: 24 hours

Fish toxicity: Leucisicus idus. LC50>5,500 mg/L. Exposure time: 24 hours

Fish toxicity: Brachydamio rerio. LC50>4,000 mg/L. Exposure time: 96 hours

Environmental fate:

This material is relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of reagent blend will not affect the performance of wastewater treatment systems.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

DOT: not regulated as a dangerous good

Road and Rail (ADR/RID): not regulated as a dangerous good

Air (ICAO/IATA): not regulated as a dangerous good

Vessel (IMO/IMDG): not regulated as a dangerous good

15. REGULATORY INFORMATION

Sara Title III: note regulated under SARA Section 311/312
CERCLA: none of the components are listed
Carcinogen: this product is not listed as a carcinogen under NTP, IARC, or OSHA

16. OTHER INFORMATION

NFPA ratings	Health: 1
	Flammability: 1
	Reactivity: 0

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ATTACHMENT 2

LABORATORY ANALYTICAL DATA PACKAGE

ANALYTICAL REPORT

Lab Number:	L2438378
Client:	TRC 1090 Union Road Suite 280 West Seneca, NY 14224
ATTN:	Bryan Hann
Phone:	(716) 870-1165
Project Name:	TESLA WASTE CHARACTERIZATION
Project Number:	605869, PHASE 3
Report Date:	08/06/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2438378-01	WC-1	SOIL	GIGA FACTORY	07/09/24 09:30	07/09/24
L2438378-02	WC-2	SOIL	GIGA FACTORY	07/09/24 09:45	07/09/24
L2438378-03	WC-3	SOIL	GIGA FACTORY	07/09/24 10:00	07/09/24
L2438378-04	WC-4	SOIL	GIGA FACTORY	07/09/24 10:15	07/09/24
L2438378-05	WC-5	SOIL	GIGA FACTORY	07/09/24 11:13	07/09/24

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
Project Number:	605869, PHASE 3	**Report Date:**	08/06/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
Project Number:	605869, PHASE 3	**Report Date:**	08/06/24

Case Narrative (continued)

Report Submission

August 06, 2024: This final report includes the results of all requested analyses.

July 16, 2024: This is a preliminary report.

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

The analyses of Radium 226 and Radium 228 were subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

The project number was specified by the client.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 08/06/24

ORGANICS

VOLATILES

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/12/24 08:08
Analyst: MCM
Percent Solids: 90%
TCLP/SPLP Ext. Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
dibromofluoromethane	102		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/11/24 14:58
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01 Date Collected: 07/09/24 09:30

Client ID: WC-1 Date Received: 07/09/24

Sample Location: GIGA FACTORY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.5	0.77	1
Methyl cyclohexane	ND		ug/kg	4.5	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/12/24 08:32
Analyst: MCM
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
dibromofluoromethane	102		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/11/24 15:22
Analyst: MAG
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	0.22	J	ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02 Date Collected: 07/09/24 09:45

Client ID: WC-2 Date Received: 07/09/24

Sample Location: GIGA FACTORY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.89	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.26	1
Methyl Acetate	ND		ug/kg	3.9	0.93	1
Cyclohexane	ND		ug/kg	9.8	0.53	1
1,4-Dioxane	ND		ug/kg	78	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	97		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/12/24 08:56
Analyst: MCM
Percent Solids: 91%
TCLP/SPLP Ext. Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
dibromofluoromethane	104		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/11/24 15:45
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03 Date Collected: 07/09/24 10:00

Client ID: WC-3 Date Received: 07/09/24

Sample Location: GIGA FACTORY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	86	38.	1
Freon-113	ND		ug/kg	4.3	0.75	1
Methyl cyclohexane	ND		ug/kg	4.3	0.65	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	97		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/12/24 09:20
Analyst: MCM
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
dibromofluoromethane	105		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/11/24 16:09
Analyst: MAG
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04 Date Collected: 07/09/24 10:15

Client ID: WC-4 Date Received: 07/09/24

Sample Location: GIGA FACTORY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
Methyl Acetate	ND		ug/kg	4.7	1.1	1
Cyclohexane	ND		ug/kg	12	0.64	1
1,4-Dioxane	ND		ug/kg	94	42.	1
Freon-113	ND		ug/kg	4.7	0.82	1
Methyl cyclohexane	ND		ug/kg	4.7	0.71	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	97		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/12/24 09:44
Analyst: MCM
Percent Solids: 68%
TCLP/SPLP Ext. Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
dibromofluoromethane	104		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/11/24 16:32
Analyst: MAG
Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.2	3.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.24	1
Chloroform	ND		ug/kg	2.4	0.23	1
Carbon tetrachloride	ND		ug/kg	1.6	0.38	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.44	1
Tetrachloroethene	ND		ug/kg	0.82	0.32	1
Chlorobenzene	ND		ug/kg	0.82	0.21	1
Trichlorofluoromethane	ND		ug/kg	6.5	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.42	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	0.27	1
Bromodichloromethane	ND		ug/kg	0.82	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.45	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	0.26	1
Bromoform	ND		ug/kg	6.5	0.40	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	0.27	1
Benzene	ND		ug/kg	0.82	0.27	1
Toluene	ND		ug/kg	1.6	0.89	1
Ethylbenzene	ND		ug/kg	1.6	0.23	1
Chloromethane	ND		ug/kg	6.5	1.5	1
Bromomethane	ND		ug/kg	3.3	0.95	1
Vinyl chloride	ND		ug/kg	1.6	0.55	1
Chloroethane	ND		ug/kg	3.3	0.74	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.22	1
Trichloroethene	ND		ug/kg	0.82	0.22	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	0.24	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	3.3	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.3	0.33	1
p/m-Xylene	ND		ug/kg	3.3	0.92	1
o-Xylene	ND		ug/kg	1.6	0.48	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.29	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	16	1.5	1
Acetone	28		ug/kg	16	7.9	1
Carbon disulfide	ND		ug/kg	16	7.4	1
2-Butanone	ND		ug/kg	16	3.6	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.1	1
2-Hexanone	ND		ug/kg	16	1.9	1
Bromochloromethane	ND		ug/kg	3.3	0.34	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.46	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	1.6	1
Isopropylbenzene	ND		ug/kg	1.6	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	0.53	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	0.44	1
Methyl Acetate	ND		ug/kg	6.5	1.6	1
Cyclohexane	ND		ug/kg	16	0.89	1
1,4-Dioxane	ND		ug/kg	130	57.	1
Freon-113	ND		ug/kg	6.5	1.1	1
Methyl cyclohexane	ND		ug/kg	6.5	0.99	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	86		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/24 08:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1945823-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/24 08:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1945823-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/11/24 08:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1945823-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/12/24 04:58
Analyst: MCM
TCLP/SPLP Extraction Date: 07/11/24 07:53

Extraction Date: 07/11/24 07:53

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-05 Batch: WG1946892-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1945823-3 WG1945823-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	94		88		70-130	7		30
Chloroform	89		86		70-130	3		30
Carbon tetrachloride	79		80		70-130	1		30
1,2-Dichloropropane	92		86		70-130	7		30
Dibromochloromethane	79		77		70-130	3		30
1,1,2-Trichloroethane	89		85		70-130	5		30
Tetrachloroethene	92		84		70-130	9		30
Chlorobenzene	91		84		70-130	8		30
Trichlorofluoromethane	91		88		70-139	3		30
1,2-Dichloroethane	87		86		70-130	1		30
1,1,1-Trichloroethane	90		85		70-130	6		30
Bromodichloromethane	82		79		70-130	4		30
trans-1,3-Dichloropropene	90		85		70-130	6		30
cis-1,3-Dichloropropene	86		82		70-130	5		30
Bromoform	75		75		70-130	0		30
1,1,2,2-Tetrachloroethane	93		82		70-130	13		30
Benzene	92		85		70-130	8		30
Toluene	95		87		70-130	9		30
Ethylbenzene	98		90		70-130	9		30
Chloromethane	95		86		52-130	10		30
Bromomethane	89		83		57-147	7		30
Vinyl chloride	95		90		67-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1945823-3 WG1945823-4								
Chloroethane	96		89		50-151	8		30
1,1-Dichloroethene	88		83		65-135	6		30
trans-1,2-Dichloroethene	87		81		70-130	7		30
Trichloroethene	85		89		70-130	5		30
1,2-Dichlorobenzene	89		84		70-130	6		30
1,3-Dichlorobenzene	92		85		70-130	8		30
1,4-Dichlorobenzene	91		86		70-130	6		30
Methyl tert butyl ether	77		76		66-130	1		30
p/m-Xylene	96		90		70-130	6		30
o-Xylene	94		89		70-130	5		30
cis-1,2-Dichloroethene	85		81		70-130	5		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	73		69		30-146	6		30
Acetone	86		102		54-140	17		30
Carbon disulfide	93		87		59-130	7		30
2-Butanone	75		84		70-130	11		30
4-Methyl-2-pentanone	81		88		70-130	8		30
2-Hexanone	74		82		70-130	10		30
Bromochloromethane	77		76		70-130	1		30
1,2-Dibromoethane	86		83		70-130	4		30
1,2-Dibromo-3-chloropropane	68		76		68-130	11		30
Isopropylbenzene	100		93		70-130	7		30
1,2,3-Trichlorobenzene	88		84		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1945823-3 WG1945823-4								
1,2,4-Trichlorobenzene	92		87		70-130	6		30
Methyl Acetate	76		83		51-146	9		30
Cyclohexane	99		91		59-142	8		30
1,4-Dioxane	92		125		65-136	30		30
Freon-113	94		90		50-139	4		30
Methyl cyclohexane	96		87		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
Toluene-d8	108		106		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	95		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-05 Batch: WG1946892-3 WG1946892-4								
Chloroform	98		98		70-130	0		20
Carbon tetrachloride	98		100		63-132	2		20
Tetrachloroethene	96		98		70-130	2		20
Chlorobenzene	100		100		75-130	0		25
1,2-Dichloroethane	94		110		70-130	16		20
Benzene	100		100		70-130	0		25
Vinyl chloride	79		79		55-140	0		20
1,1-Dichloroethene	100		100		61-145	0		25
Trichloroethene	98		100		70-130	2		25
1,4-Dichlorobenzene	95		98		70-130	3		20
2-Butanone	110		120		63-138	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	110		110		70-130
dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/15/24 02:56
Analyst: EK
Percent Solids: 90%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	57		33-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/15/24 03:21
Analyst: EK
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	58		33-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/15/24 03:46
Analyst: EK
Percent Solids: 91%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	58		33-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/15/24 04:11
Analyst: EK
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	57		10-120
4-Terphenyl-d14	57		33-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/15/24 04:35
Analyst: EK
Percent Solids: 68%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	45		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	53		33-120

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 07/15/24 00:01
Analyst: EK
TCLP/SPLP Extraction Date: 07/12/24 22:10

Extraction Method: EPA 3510C
Extraction Date: 07/14/24 07:49

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01-05 Batch: WG1946700-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	52		10-120
4-Terphenyl-d14	54		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-05 Batch: WG1946700-2 WG1946700-3								
Hexachlorobenzene	45		49		40-140	9		30
2,4-Dinitrotoluene	51		54		40-132	6		30
Hexachlorobutadiene	42		44		28-111	5		30
Hexachloroethane	42		45		21-105	7		30
Nitrobenzene	48		53		40-140	10		30
2,4,6-Trichlorophenol	46		51		30-130	10		30
Pentachlorophenol	48		52		9-103	8		30
2-Methylphenol	48		52		30-130	8		30
3-Methylphenol/4-Methylphenol	50		54		30-130	8		30
2,4,5-Trichlorophenol	50		54		30-130	8		30
Pyridine	23		27		10-66	16		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		51		21-120
Phenol-d6	47		49		10-120
Nitrobenzene-d5	50		54		23-120
2-Fluorobiphenyl	45		48		15-120
2,4,6-Tribromophenol	49		52		10-120
4-Terphenyl-d14	50		54		33-120

PCBS

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/12/24 15:06
Analyst: AD
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.2	4.64	1	A
Aroclor 1221	ND		ug/kg	52.2	5.23	1	A
Aroclor 1232	ND		ug/kg	52.2	11.1	1	A
Aroclor 1242	38.7	J	ug/kg	52.2	7.04	1	B
Aroclor 1248	ND		ug/kg	52.2	7.83	1	A
Aroclor 1254	54.7		ug/kg	52.2	5.71	1	B
Aroclor 1260	24.3	J	ug/kg	52.2	9.65	1	A
Aroclor 1262	ND		ug/kg	52.2	6.63	1	A
Aroclor 1268	12.2	J	ug/kg	52.2	5.41	1	A
PCBs, Total	130	J	ug/kg	52.2	4.64	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/12/24 15:14
Analyst: AD
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.4	4.66	1	A
Aroclor 1221	ND		ug/kg	52.4	5.26	1	A
Aroclor 1232	ND		ug/kg	52.4	11.1	1	A
Aroclor 1242	91.4		ug/kg	52.4	7.07	1	B
Aroclor 1248	ND		ug/kg	52.4	7.87	1	A
Aroclor 1254	37.3	J	ug/kg	52.4	5.74	1	B
Aroclor 1260	19.1	J	ug/kg	52.4	9.69	1	A
Aroclor 1262	ND		ug/kg	52.4	6.66	1	A
Aroclor 1268	7.85	J	ug/kg	52.4	5.43	1	A
PCBs, Total	156	J	ug/kg	52.4	4.66	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/12/24 15:22
Analyst: AD
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.3	4.73	1	A
Aroclor 1221	ND		ug/kg	53.3	5.34	1	A
Aroclor 1232	ND		ug/kg	53.3	11.3	1	A
Aroclor 1242	26.4	J	ug/kg	53.3	7.19	1	B
Aroclor 1248	ND		ug/kg	53.3	8.00	1	A
Aroclor 1254	34.0	J	ug/kg	53.3	5.83	1	B
Aroclor 1260	25.8	J	ug/kg	53.3	9.85	1	A
Aroclor 1262	ND		ug/kg	53.3	6.77	1	A
Aroclor 1268	13.8	J	ug/kg	53.3	5.52	1	A
PCBs, Total	100	J	ug/kg	53.3	4.73	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/12/24 15:30
Analyst: AD
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.3	4.73	1	A
Aroclor 1221	ND		ug/kg	53.3	5.34	1	A
Aroclor 1232	ND		ug/kg	53.3	11.3	1	A
Aroclor 1242	19.9	J	ug/kg	53.3	7.18	1	B
Aroclor 1248	ND		ug/kg	53.3	7.99	1	A
Aroclor 1254	26.0	J	ug/kg	53.3	5.83	1	B
Aroclor 1260	18.2	J	ug/kg	53.3	9.84	1	A
Aroclor 1262	ND		ug/kg	53.3	6.76	1	A
Aroclor 1268	14.9	J	ug/kg	53.3	5.52	1	B
PCBs, Total	79.0	J	ug/kg	53.3	4.73	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/12/24 15:38
Analyst: AD
Percent Solids: 68%

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	68.3	6.06	1	A
Aroclor 1221	ND		ug/kg	68.3	6.84	1	A
Aroclor 1232	ND		ug/kg	68.3	14.5	1	A
Aroclor 1242	161		ug/kg	68.3	9.21	1	B
Aroclor 1248	ND		ug/kg	68.3	10.2	1	A
Aroclor 1254	47.2	J	ug/kg	68.3	7.47	1	B
Aroclor 1260	24.1	J	ug/kg	68.3	12.6	1	A
Aroclor 1262	ND		ug/kg	68.3	8.68	1	A
Aroclor 1268	14.0	J	ug/kg	68.3	7.08	1	B
PCBs, Total	246	J	ug/kg	68.3	6.06	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/12/24 14:02
Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 07/12/24 00:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/12/24
Cleanup Method: EPA 3660B
Cleanup Date: 07/12/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1946047-1						
Aroclor 1016	ND		ug/kg	47.8	4.25	A
Aroclor 1221	ND		ug/kg	47.8	4.79	A
Aroclor 1232	ND		ug/kg	47.8	10.1	A
Aroclor 1242	ND		ug/kg	47.8	6.45	A
Aroclor 1248	ND		ug/kg	47.8	7.18	A
Aroclor 1254	ND		ug/kg	47.8	5.23	A
Aroclor 1260	ND		ug/kg	47.8	8.84	A
Aroclor 1262	ND		ug/kg	47.8	6.08	A
Aroclor 1268	ND		ug/kg	47.8	4.96	A
PCBs, Total	ND		ug/kg	47.8	4.25	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	86		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1946047-2 WG1946047-3									
Aroclor 1016	75		82		40-140	9		50	A
Aroclor 1260	72		79		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		83		30-150	A
Decachlorobiphenyl	81		89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		89		30-150	B
Decachlorobiphenyl	87		95		30-150	B

METALS

Project Name: TESLA WASTE CHARACTERIZATION
Lab Number: L2438378
Project Number: 605869, PHASE 3
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY
Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Barium, TCLP	0.687		mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Mercury, TCLP	0.0008	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:34	EPA 7470A	1,7470A	SMV
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 20:46	EPA 3015	1,6010D	JTS

TCLP Limits:

Barium - 100 mg/L
Mercury - 0.2 mg/L

Project Name: TESLA WASTE CHARACTERIZATION
Lab Number: L2438378
Project Number: 605869, PHASE 3
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY
Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Barium, TCLP	0.593		mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Mercury, TCLP	0.0009	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:37	EPA 7470A	1,7470A	SMV
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 20:52	EPA 3015	1,6010D	JTS

TCLP Limits:

Barium - 100 mg/L
Mercury - 0.2 mg/L

Project Name: TESLA WASTE CHARACTERIZATION
Lab Number: L2438378
Project Number: 605869, PHASE 3
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY
Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Barium, TCLP	0.475	J	mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Mercury, TCLP	0.0008	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:40	EPA 7470A	1,7470A	SMV
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 20:59	EPA 3015	1,6010D	JTS

TCLP Limits:

Barium - 100 mg/L
Mercury - 0.2 mg/L

Project Name: TESLA WASTE CHARACTERIZATION
Lab Number: L2438378
Project Number: 605869, PHASE 3
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY
Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.0598	J	mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 21:41	EPA 3015	1,6010D	DHL
Barium, TCLP	0.715		mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS
Mercury, TCLP	0.0008	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:50	EPA 7470A	1,7470A	SMV
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 21:33	EPA 3015	1,6010D	JTS

TCLP Limits:

Arsenic - 5.0 mg/L
Barium - 100 mg/L
Mercury - 0.2 mg/L

Project Name: TESLA WASTE CHARACTERIZATION
Lab Number: L2438378
Project Number: 605869, PHASE 3
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY
Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 68%
TCLP/SPLP Ext. Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.0393	J	mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 21:44	EPA 3015	1,6010D	DHL
Barium, TCLP	0.683		mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS
Mercury, TCLP	0.0007	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:53	EPA 7470A	1,7470A	SMV
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 21:40	EPA 3015	1,6010D	JTS

TCLP Limits:

Arsenic - 5.0 mg/L
Barium - 100 mg/L
Mercury - 0.2 mg/L

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2438378

Project Number: 605869, PHASE 3 **Report Date:** 08/06/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05 Batch: WG1947046-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Barium, TCLP	ND		mg/l	0.500	0.0210	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/15/24 16:05	07/15/24 19:59	1,6010D	JTS

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/12/24 22:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05 Batch: WG1947047-1										
Mercury, TCLP	0.0005	J	mg/l	0.0010	0.0005	1	07/15/24 17:35	07/16/24 11:17	1,7470A	SMV

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 07/12/24 22:10

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1947046-2								
Arsenic, TCLP	89		-		75-125	-		20
Barium, TCLP	94		-		75-125	-		20
Cadmium, TCLP	95		-		75-125	-		20
Chromium, TCLP	90		-		75-125	-		20
Lead, TCLP	97		-		75-125	-		20
Selenium, TCLP	90		-		75-125	-		20
Silver, TCLP	96		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1947047-2								
Mercury, TCLP	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1947046-3 QC Sample: L2438528-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.07	89		-	-		75-125	-		20
Barium, TCLP	0.821	20	18.8	90		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.477	90		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.74	87		-	-		75-125	-		20
Lead, TCLP	0.0917J	5.3	4.91	93		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.13	94		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.474	95		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1947047-3 QC Sample: L2438528-01 Client ID: MS Sample												
Mercury, TCLP	0.0006J	0.025	0.0246	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1947046-4 QC Sample: L2438528-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.821	0.821	mg/l	0		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.0917J	0.0939J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1947047-4 QC Sample: L2438528-01 Client ID: DUP Sample						
Mercury, TCLP	0.0006J	0.0006J	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY
Sample Depth:
Matrix: Soil

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/15/24 15:41	1,1030	GEF

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/15/24 15:41	1,1030	GEF

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY
Sample Depth:
Matrix: Soil

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/15/24 15:41	1,1030	GEF

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/15/24 15:41	1,1030	GEF

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Wet Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/15/24 15:42	1,1030	GEF

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-01
Client ID: WC-1
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:30
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	07/10/24 12:25	121,2540G	ROI
pH (H)	8.61		SU	-	NA	1	-	07/11/24 18:12	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:58	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:51	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	07/11/24 17:25	1,9095B	AAS

TCLP Limits:

pH - 2.0 to 12.5

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-02
Client ID: WC-2
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 09:45
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/10/24 12:25	121,2540G	ROI
pH (H)	11.3		SU	-	NA	1	-	07/11/24 18:12	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:58	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:51	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	07/11/24 17:25	1,9095B	AAS

TCLP Limits:

pH - 2.0 to 12.5

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-03
Client ID: WC-3
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:00
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	07/10/24 12:25	121,2540G	ROI
pH (H)	8.85		SU	-	NA	1	-	07/11/24 18:12	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:58	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:51	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	07/11/24 17:25	1,9095B	AAS

TCLP Limits:

pH - 2.0 to 12.5

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-04
Client ID: WC-4
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 10:15
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	07/10/24 12:25	121,2540G	ROI
pH (H)	8.82		SU	-	NA	1	-	07/11/24 18:12	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:59	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:52	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	07/11/24 17:25	1,9095B	AAS

TCLP Limits:

pH - 2.0 to 12.5

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

SAMPLE RESULTS

Lab ID: L2438378-05
Client ID: WC-5
Sample Location: GIGA FACTORY

Date Collected: 07/09/24 11:13
Date Received: 07/09/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.9		%	0.100	NA	1	-	07/10/24 12:25	121,2540G	ROI
pH (H)	10.8		SU	-	NA	1	-	07/11/24 18:12	1,9045D	AAS
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:59	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:52	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	07/11/24 17:25	1,9095B	AAS

TCLP Limits:

pH - 2.0 to 12.5

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3
Lab Number: L2438378
Report Date: 08/06/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1947167-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:48	125,7.3	TLH
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1947171-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/15/24 20:55	07/15/24 21:56	125,7.3	TLH

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1945957-1								
pH	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1947167-2								
Sulfide, Reactive	94		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1947171-2								
Cyanide, Reactive	118		-		30-125	-		40

Lab Duplicate Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: 605869, PHASE 3

Lab Number: L2438378

Report Date: 08/06/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1945284-1 QC Sample: L2438378-01 Client ID: WC-1						
Solids, Total	89.8	89.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1945957-2 QC Sample: L2438819-01 Client ID: DUP Sample						
pH	5.62	5.69	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1947167-3 QC Sample: L2438374-04 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1947171-3 QC Sample: L2438374-04 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438378-01A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L2438378-01B	Vial water preserved	A	NA		3.9	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-01C	Vial water preserved	A	NA		3.9	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-01D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2438378-01E	Vial Large Septa unpreserved (4oz)	A	NA		3.9	Y	Absent		TCLP-EXT-ZHE(14)
L2438378-01F	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-01G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-01H	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-01S	Vial unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-VOA(14)
L2438378-01T	Vial unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-VOA(14)
L2438378-01W	Amber 1000ml unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-8270(14)
L2438378-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2438378-01X9	Tumble Vessel	A	NA		3.9	Y	Absent		-
L2438378-02A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L2438378-02B	Vial water preserved	A	NA		3.9	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-02C	Vial water preserved	A	NA		3.9	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-02D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2438378-02E	Vial Large Septa unpreserved (4oz)	A	NA		3.9	Y	Absent		TCLP-EXT-ZHE(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438378-02F	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-02G	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-02H	Glass 500ml/16oz unpreserved	A	NA		3.9	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-02S	Vial unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-VOA(14)
L2438378-02T	Vial unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-VOA(14)
L2438378-02W	Amber 1000ml unpreserved Extracts	A	NA		3.9	Y	Absent		TCLP-8270(14)
L2438378-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2438378-02X9	Tumble Vessel	A	NA		3.9	Y	Absent		-
L2438378-03A	Vial MeOH preserved	B	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2438378-03B	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-03C	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-03D	Plastic 120ml unpreserved	B	NA		4.3	Y	Absent		TS(7)
L2438378-03E	Vial Large Septa unpreserved (4oz)	B	NA		4.3	Y	Absent		TCLP-EXT-ZHE(14)
L2438378-03F	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2438378-03G	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2438378-03H	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2438378-03S	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-03T	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-03W	Amber 1000ml unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-8270(14)
L2438378-03X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2438378-03X9	Tumble Vessel	B	NA		4.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438378-04A	Vial MeOH preserved	B	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2438378-04B	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-04C	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-04D	Plastic 120ml unpreserved	B	NA		4.3	Y	Absent		TS(7)
L2438378-04E	Vial Large Septa unpreserved (4oz)	B	NA		4.3	Y	Absent		TCLP-EXT-ZHE(14)
L2438378-04F	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-04G	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-04H	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		IGNIT-1030(14),REACTS(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-04S	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-04T	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-04W	Amber 1000ml unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-8270(14)
L2438378-04X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2438378-04X9	Tumble Vessel	B	NA		4.3	Y	Absent		-
L2438378-05A	Vial MeOH preserved	B	NA		4.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2438378-05B	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-05C	Vial water preserved	B	NA		4.3	Y	Absent	10-JUL-24 10:20	NYTCL-8260HLW-R2(14)
L2438378-05D	Plastic 120ml unpreserved	B	NA		4.3	Y	Absent		TS(7)
L2438378-05E	Vial Large Septa unpreserved (4oz)	B	NA		4.3	Y	Absent		TCLP-EXT-ZHE(14)
L2438378-05F	Glass 250ml/8oz unpreserved	B	NA		4.3	Y	Absent		SUB-RA228(180),SUB-RA226(180),PAINTF()
L2438378-05G	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-05G1	Glass 500ml unpreserved split	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2438378-05H	Glass 500ml/16oz unpreserved	B	NA		4.3	Y	Absent		REACTS(14),IGNIT-1030(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)

*Values in parentheses indicate holding time in days

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: 605869, PHASE 3

Lab Number: L2438378
Report Date: 08/06/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2438378-05S	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-05T	Vial unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-VOA(14)
L2438378-05W	Amber 1000ml unpreserved Extracts	B	NA		4.3	Y	Absent		TCLP-8270(14)
L2438378-05X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.3	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2438378-05X9	Tumble Vessel	B	NA		4.3	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
Project Number:	605869, PHASE 3	**Report Date:**	08/06/24

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
Project Number:	605869, PHASE 3	**Report Date:**	08/06/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2438378
Project Number:	605869, PHASE 3	**Report Date:**	08/06/24

REFERENCES

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

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

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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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 of

Date Rec'd in Lab: 7/10/24

ALPHA Job #: L2438378

Client Information
Client: TRC
Address: 1010 Union Rd
West Seneca, NY
Phone: 716-336-5544
Fax:
Email: lcappellano@trcompanies

Project Information
Project Name: Tesla Waste Characterization
Project Location: Gaga Factory
Project #
(Use Project name as Project #)
Project Manager: Bryan Hann
ALPHAQuote #:

Turn-Around Time
Standard
Rush (only if pre approved)
Due Date:
# 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:
* WC-5 only sample analyzed for Rad 226 and 228.

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	TCLP Metals + TSVOCs TCL PCBs R,I,C,PF	Rad 228	TCLP VOA ZHE	Total Solids	TCL VOAs	Sample Specific Comments	Total Bottle
38378-01	WC-1	7/9/24	9:30	SOIL	LPL	3		1	1	3		
-02	WC-2		9:45		LPL							
-03	WC-3		10:00		SS							
-04	WC-4		10:15		SS							
-05	WC-5		11:15		SS	2	1*					

Container Type
Preservative

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
Luke Cappellano	7/9/24 12:24	Jacobs Kelly (PACE)	7/9/24 12:24
Jacobs Kelly (PACE)	7/9/24 12:24	Buffalo Service Center	7/9/24 12:24
BUFFSC	7-9-24 15:40	Russell B Bixby	7-9-24 15:40
Russell B Bixby	7-9-24		7-9-24 2005

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)

0300 07110124-L2438

ANALYTICAL REPORT

August 12, 2024

PSH LLC

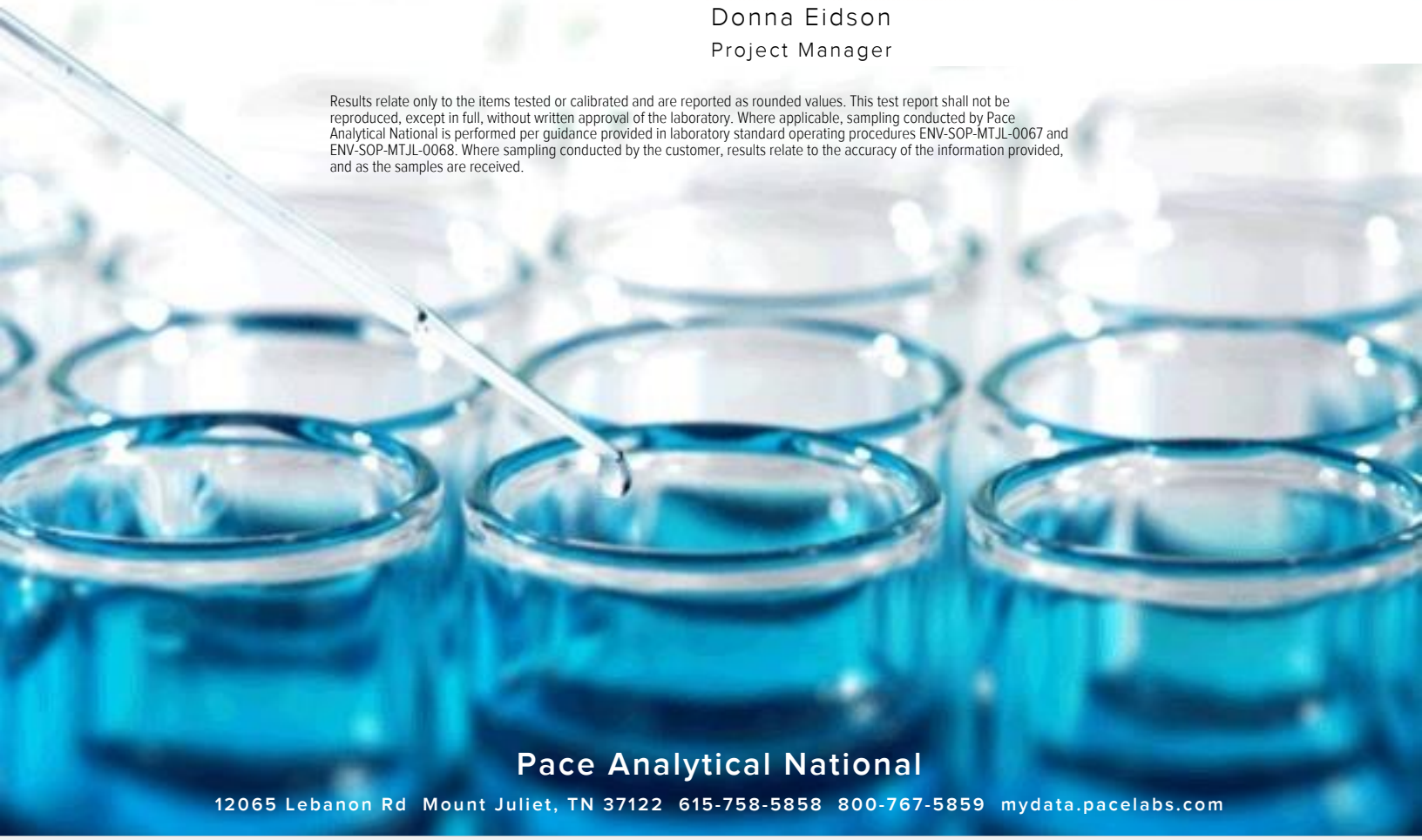
Sample Delivery Group:	L1756730
Samples Received:	07/16/2024
Project Number:	TRC-2024-001
Description:	TESLA Spoils Stockpile

Report To: Pat Horkman
633 Buckingham Street
Oakville, CT 06779

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

EIDSO L1756730-01 Solids and Chemical Materials

Collected by: Pat Horkman | Collected date/time: 07/09/24 09:30 | Received date/time: 07/16/24 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)	WG2325765	1	07/18/24 08:16	08/08/24 08:26	ZRG	Mt. Juliet, TN

TRC-2024-002 L1756730-02 Solids and Chemical Materials

Collected by: Pat Horkman | Collected date/time: 07/09/24 09:45 | Received date/time: 07/16/24 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)	WG2325765	1	07/18/24 08:16	08/08/24 08:51	ZRG	Mt. Juliet, TN

TRC-2024-003 L1756730-03 Solids and Chemical Materials

Collected by: Pat Horkman | Collected date/time: 07/09/24 10:00 | Received date/time: 07/16/24 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)	WG2325765	1	07/18/24 08:16	08/08/24 09:27	ZRG	Mt. Juliet, TN

TRC-2024-004 L1756730-04 Solids and Chemical Materials

Collected by: Pat Horkman | Collected date/time: 07/09/24 10:15 | Received date/time: 07/16/24 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)	WG2325765	1	07/18/24 08:16	08/08/24 09:56	ZRG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Donna Eidson
Project Manager

Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
Actinium-228 (Ra-228)	0.626		0.194	0.194	0.341	0.153	08/08/2024 08:26	WG2325765
Bismuth-214 (Ra-226)	1.75		0.208	0.208	0.160	0.0716	08/08/2024 08:26	WG2325765

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)

Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
Actinium-228 (Ra-228)	0.566	J	0.262	0.262	0.574	0.242	08/08/2024 08:51	WG2325765
Bismuth-214 (Ra-226)	1.19		0.245	0.245	0.269	0.116	08/08/2024 08:51	WG2325765

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
Actinium-228 (Ra-228)	0.508		0.171	0.171	0.350	0.156	08/08/2024 09:27	WG2325765
Bismuth-214 (Ra-226)	1.17		0.168	0.168	0.152	0.0677	08/08/2024 09:27	WG2325765

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Radiochemistry by Method DOE Ga-01-R/901.1 (21 day)

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
Actinium-228 (Ra-228)	0.792		0.180	0.180	0.298	0.131	08/08/2024 09:56	WG2325765
Bismuth-214 (Ra-226)	1.02		0.155	0.155	0.147	0.0657	08/08/2024 09:56	WG2325765

Method Blank (MB)

(MB) R4104367-2 08/08/24 13:06

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Actinium-228 (Ra-228)	0.0461	U	0.0859	0.227	0.0883
Americium-241	0.00328	U	0.135	0.248	0.115
Bismuth-214 (Ra-226)	0.111	J	0.0739	0.128	0.0523
Cesium-137	-0.0237	U	0.0429	0.0974	0.0421
Cobalt-60	-0.0188	U	0.0260	0.0909	0.0352

L1756730-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1756730-01 08/08/24 08:26 • (DUP) R4104367-1 08/08/24 00:09

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Actinium-228 (Ra-228)	0.626	0.194	0.341	0.153	0.690	0.281	0.544	0.232	9.67	0.186		20	3
Americium-241	-0.00238	0.128	0.239	0.113	-0.0194	0.128	0.239	0.113	0.000	0.0995	U	20	3
Bismuth-214 (Ra-226)	1.75	0.208	0.160	0.0716	1.52	0.264	0.255	0.110	14.1	0.684		20	3
Cesium-137	0.0250	0.0757	0.170	0.0748	-0.0882	0.0757	0.170	0.0748	200	1.24	U	20	3
Cobalt-60	0.0289	0.0465	0.142	0.0549	-0.0199	0.0465	0.142	0.0549	200	0.875	U	20	3

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4104367-3 08/08/24 13:06 • (LCSD) R4104367-4 08/08/24 14:02

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCSD Result pCi/g	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Americium-241	36.9	32.7	35.5	88.5	96.3	80.0-120			8.48	20
Cesium-137	53.8	53.8	56.5	100	105	80.0-120			4.84	20
Cobalt-60	62.9	61.2	66.1	97.3	105	80.0-120			7.62	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
PSH, LLC
633 Buckingham Street
Oakville, CT 06779

Billing Information:
PSH, LLC
633 Buckingham Street
Oakville, CT 06779

Pres Chk

Report to: **Pat Horkman**

Email To: **pathorkman@netscape.net**

Project Description: TESLA Spoils Stockpile

City/State Collected: **Buffalo, NY**

Please Circle: PT MT CT ET

Phone: **860-324-6599**

Client Project # **TRC-2024-001**

Lab Project #

Collected by (print): **Pat Horkman**

Site/Facility ID # **N/A**

P.O. # **TBD**

Collected by (signature):

Immediately Packed on Ice N ___ X ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	GSPEC RA21 Days - bag (901.1M)	Remarks	Sample # (lab only)
TRC-2024-001	Comp	SS	0-18"	7/9/24	9:30 am	1	X	WC-1	-01
TRC-2024-002	Comp	SS	0-18"	7/9/24	9:45 am	1	X	WC-2	-02
TRC-2024-003	Comp	SS	0-18"	7/9/24	10:00 am	1	X	WC-3	-03
TRC-2024-004	Comp	SS	0-18"	7/9/24	10:15 am	1	X	WC-4	-04

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE
12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1506730

Table # C133

Acctnum: PSHLLCOCT

Template:

Prelogin:

PM: **732 - Donna Eidson**

PB:

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N
<500 cpm

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Patrick Horkman	7/11/2024	12:00 pm			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: EDA9 Ar 2/6 4	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7/16/24 Time: 800	Hold: Condition: NCF / OK

ANALYTICAL REPORT

August 06, 2024

Pace Analytical (Alpha) - Westborough,MA

Sample Delivery Group:	L1755529
Samples Received:	07/11/2024
Project Number:	L2438378
Description:	

Report To: Melissa Deyo
8 Walkup Drive
Westborough, MA 01581

Entire Report Reviewed By:

Haley Torrence
Project Manager

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Pace Analytical National
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Qc: Quality Control Summary 6

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Gl: Glossary of Terms 7

Al: Accreditations & Locations 8

Sc: Sample Chain of Custody 9

WC-5 L1755529-01 Solids and Chemical Materials

	Collected by	Collected date/time	Received date/time
		07/09/24 11:13	07/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1 (5 day)	WG2324156	1	07/15/24 11:26	08/05/24 13:11	ZRG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Haley Torrence

Haley Torrence
Project Manager

Radiochemistry by Method DOE Ga-01-R/901.1 (5 day)

Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
Actinium-228 (Ra-228)	1.06		0.367	0.367	0.673	0.270	08/05/2024 13:11	WG2324156
Radium-226 (186 KeV)	2.27		1.19	1.19	1.89	0.863	08/05/2024 13:11	WG2324156

NYSDEC DMM-5 TENORM Limits:

TENORM Background-compariable: below 5 pCi/g of radium-226
TENORM Fill: between 5 and 15 pCi/g of raidum-226
TENORM Waste: above 15 pCi/g of radium-226

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4103032-4 08/05/24 21:41

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Actinium-228 (Ra-228)	-0.0640	U	0.100	0.291	0.120
Americium-241	-0.0746	U	0.140	0.264	0.123
Cesium-137	-0.0154	U	0.0382	0.0879	0.0374
Cobalt-60	-0.0124	U	0.0210	0.0909	0.0352
Radium-226 (186 KeV)	0.469	J	0.469	0.870	0.402

L1755620-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1755620-01 08/05/24 12:00 • (DUP) R4103032-1 08/05/24 13:55

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Actinium-228 (Ra-228)	1.14	0.471	0.986	0.426	0.722	0.322	0.717	0.327	45.1	0.738		20	3
Radium-226 (186 KeV)	7.45	1.89	2.70	1.28	7.66	1.37	1.79	0.857	2.77	0.0895		20	3

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4103032-2 08/05/24 19:52 • (LCSD) R4103032-3 08/05/24 21:16

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCSD Result pCi/g	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Americium-241	36.9	38.3	36.4	104	98.8	80.0-120			4.85	20
Cesium-137	53.8	53.2	57.4	98.8	107	80.0-120			7.67	20
Cobalt-60	62.9	61.3	63.7	97.5	101	80.0-120			3.81	20

GLOSSARY OF TERMS

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Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

K226

Subcontract Chain of Custody

Pace Analytical National
12065 Lebanon Road
Mt. Juliet, TN 37122

Alpha Job Number
L2438378

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5229
Email: Melissa.Deyo@pacelabs.com

Project Information

Project Location: NY
Project Manager: Melissa Deyo

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria: L17555 29

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2438378

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	WC-5	07-09-24 11:13	SOIL	Radium 226; Radium 228 -01	

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N		

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	C Tolean	7/10/24		7/11/24 9:00
Form No: AL_subcoc				

7773 1436 7492 OK

2.0+0.3=2.3 RD AB

ANALYTICAL REPORT

Lab Number:	L2456688
Client:	TRC 1090 Union Road Suite 280 West Seneca, NY 14224
ATTN:	Bryan Hann
Phone:	(716) 870-1165
Project Name:	TESLA WASTE CHARACTERIZATION
Project Number:	Not Specified
Report Date:	10/28/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2456688-01	WC-G-1	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 10:10	10/01/24
L2456688-02	WC-G-2	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 10:15	10/01/24
L2456688-03	WC-G-3	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 10:20	10/01/24
L2456688-04	WC-G-4	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 10:25	10/01/24
L2456688-05	WC-G-5	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 13:00	10/01/24
L2456688-06	WC-C-1	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 12:05	10/01/24
L2456688-07	WC-C-2	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 12:20	10/01/24
L2456688-08	WC-C-3	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 12:40	10/01/24
L2456688-09	WC-C-4	SOIL	1339 SOUTH PARK AVE, BUFFALO, NY	10/01/24 13:10	10/01/24

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

Case Narrative (continued)

Report Submission

October 28, 2024: This final report includes the results of all requested analyses.

October 08, 2024: This is a preliminary report.

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

Perfluorinated Alkyl Acids by 1633

L2456688-06RE, -07RE, -08RE and -09RE: The sample was re-extracted within holding time due to QC failures in the original extraction. The results of the re-extraction are reported.

The WG1989121-2 LCS recovery, associated with L2456688-06RE, -07RE, -08RE, and -09RE, is above the acceptance criteria for 4,8-dioxa-3h-perfluorononanoic acid (adona) (242%); however, the associated samples are non-detect to the reporting limit for this target analyte. The results of the original analysis are reported.

The WG1989121-3 LCS recovery, associated with L2456688-06RE, -07RE, -08RE, and -09RE, is above the acceptance criteria for 4,8-dioxa-3h-perfluorononanoic acid (adona) (223%), perfluoro(2-ethoxyethane)sulfonic acid (pfeesa) (141%) and 2h,2h,3h,3h-perfluorooctanoic acid (5:3ftca) (140%); however, the associated samples are non-detect to the reporting limit for these target analytes. The results of the original analysis are reported.

Total Metals

L2456688-06 through -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

Chromium, Hexavalent

The WG1979606-4 Insoluble MS recovery for chromium, hexavalent (72%), performed on L2456688-07, is below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (66%) was also below

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

Case Narrative (continued)

criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 96%.

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: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 10/28/24

ORGANICS

VOLATILES

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-01
Client ID: WC-G-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 10:10
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/06/24 17:53
Analyst: JIC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.58	0.22	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Acetone	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.6	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.2	0.20	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-01 Date Collected: 10/01/24 10:10

Client ID: WC-G-1 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-02
Client ID: WC-G-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 10:15
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/06/24 18:14
Analyst: JIC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
Tetrachloroethene	ND		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.23	1
Toluene	ND		ug/kg	1.4	0.77	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	0.26	J	ug/kg	0.71	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Acetone	ND		ug/kg	14	6.8	1
2-Butanone	ND		ug/kg	14	3.1	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-02 Date Collected: 10/01/24 10:15

Client ID: WC-G-2 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-03
Client ID: WC-G-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 10:20
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/06/24 18:35
Analyst: JIC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.23	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Acetone	ND		ug/kg	9.8	4.7	1
2-Butanone	ND		ug/kg	9.8	2.2	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
n-Propylbenzene	ND		ug/kg	0.98	0.17	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-03 Date Collected: 10/01/24 10:20

Client ID: WC-G-3 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	104		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-04
Client ID: WC-G-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 10:25
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/06/24 18:56
Analyst: JIC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.18	1
Acetone	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.4	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-04 Date Collected: 10/01/24 10:25

Client ID: WC-G-4 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	103		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-05 Date Collected: 10/01/24 13:00
Client ID: WC-G-5 Date Received: 10/01/24
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/06/24 19:17
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.26	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Acetone	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	2.8	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-05 Date Collected: 10/01/24 13:00

Client ID: WC-G-5 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	93		70-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/06/24 17:10
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1981092-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/06/24 17:10
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1981092-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1981092-3 WG1981092-4								
Methylene chloride	92		98		70-130	6		30
1,1-Dichloroethane	90		95		70-130	5		30
Chloroform	92		103		70-130	11		30
Carbon tetrachloride	83		86		70-130	4		30
Tetrachloroethene	91		96		70-130	5		30
Chlorobenzene	95		100		70-130	5		30
1,2-Dichloroethane	91		100		70-130	9		30
1,1,1-Trichloroethane	87		91		70-130	4		30
Benzene	93		99		70-130	6		30
Toluene	92		98		70-130	6		30
Ethylbenzene	94		99		70-130	5		30
Vinyl chloride	82		84		67-130	2		30
1,1-Dichloroethene	83		86		65-135	4		30
trans-1,2-Dichloroethene	93		101		70-130	8		30
Trichloroethene	92		114		70-130	21		30
1,2-Dichlorobenzene	96		100		70-130	4		30
1,3-Dichlorobenzene	96		100		70-130	4		30
1,4-Dichlorobenzene	95		100		70-130	5		30
Methyl tert butyl ether	92		103		66-130	11		30
p/m-Xylene	94		100		70-130	6		30
o-Xylene	95		100		70-130	5		30
cis-1,2-Dichloroethene	97		97		70-130	0		30
Acetone	79		101		54-140	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1981092-3 WG1981092-4								
2-Butanone	80		97		70-130	19		30
n-Butylbenzene	95		97		70-130	2		30
sec-Butylbenzene	92		94		70-130	2		30
tert-Butylbenzene	94		96		70-130	2		30
n-Propylbenzene	95		97		70-130	2		30
1,3,5-Trimethylbenzene	96		98		70-130	2		30
1,2,4-Trimethylbenzene	97		99		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		98		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06
Client ID: WC-C-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:05
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/07/24 17:31
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 09:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	900		ug/kg	110	22.	1
Naphthalene	70	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
Benzo(a)anthracene	480		ug/kg	110	21.	1
Benzo(a)pyrene	520		ug/kg	150	46.	1
Benzo(b)fluoranthene	710		ug/kg	110	32.	1
Benzo(k)fluoranthene	240		ug/kg	110	30.	1
Chrysene	520		ug/kg	110	20.	1
Acenaphthylene	94	J	ug/kg	150	29.	1
Anthracene	110		ug/kg	110	37.	1
Benzo(ghi)perylene	350		ug/kg	150	22.	1
Fluorene	42	J	ug/kg	190	18.	1
Phenanthrene	490		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	85	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	340		ug/kg	150	26.	1
Pyrene	750		ug/kg	110	19.	1
Aniline	ND		ug/kg	230	90.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06 Date Collected: 10/01/24 12:05

Client ID: WC-C-1 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	39		18-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06 RE
Client ID: WC-C-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:05
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 10/26/24 12:49
Analyst: ANH
Percent Solids: 87%

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.055	J	ng/g	0.791	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.396	0.038	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.020	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.791	0.077	1
Perfluorohexanoic Acid (PFHxA)	0.041	J	ng/g	0.198	0.015	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.012	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.020	1
Perfluorooctanoic Acid (PFOA)	0.088	J	ng/g	0.198	0.026	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.791	0.146	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.044	1
Perfluorononanoic Acid (PFNA)	0.030	J	ng/g	0.198	0.013	1
Perfluorooctanesulfonic Acid (PFOS)	0.204		ng/g	0.198	0.031	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.035	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.791	0.256	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.029	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.085	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.013	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.014	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.010	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.044	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.021	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.016	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.024	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.791	0.038	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.791	0.029	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.021	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06 RE Date Collected: 10/01/24 12:05

Client ID: WC-C-1 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.791	0.029	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.791	0.040	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.026	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.021	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.120	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.081	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.396	0.017	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.396	0.024	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.396	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.396	0.082	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.989	0.091	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.94	0.233	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.94	0.362	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06 RE
Client ID: WC-C-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:05
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	92		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	93		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	87		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	95		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	109		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	89		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	108		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	113		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	93		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	96		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	86		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	92		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	104		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	102		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	69		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	73		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	86		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	83		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	79		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	77		15-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07
Client ID: WC-C-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:20
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/07/24 17:08
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 09:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	27	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	920		ug/kg	110	22.	1
Naphthalene	92	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
Benzo(a)anthracene	530		ug/kg	110	21.	1
Benzo(a)pyrene	620		ug/kg	150	46.	1
Benzo(b)fluoranthene	810		ug/kg	110	32.	1
Benzo(k)fluoranthene	280		ug/kg	110	30.	1
Chrysene	550		ug/kg	110	20.	1
Acenaphthylene	90	J	ug/kg	150	29.	1
Anthracene	140		ug/kg	110	37.	1
Benzo(ghi)perylene	440		ug/kg	150	22.	1
Fluorene	46	J	ug/kg	190	18.	1
Phenanthrene	470		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	420		ug/kg	150	26.	1
Pyrene	800		ug/kg	110	19.	1
Aniline	ND		ug/kg	230	90.	1
Dibenzofuran	40	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07 Date Collected: 10/01/24 12:20

Client ID: WC-C-2 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	52		18-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07 RE
Client ID: WC-C-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:20
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 10/26/24 12:58
Analyst: ANH
Percent Solids: 87%

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.797	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.399	0.038	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.199	0.020	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.797	0.077	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.199	0.015	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.199	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.199	0.012	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.199	0.020	1
Perfluorooctanoic Acid (PFOA)	0.053	J	ng/g	0.199	0.026	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.797	0.147	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.199	0.045	1
Perfluorononanoic Acid (PFNA)	0.027	J	ng/g	0.199	0.013	1
Perfluorooctanesulfonic Acid (PFOS)	0.211		ng/g	0.199	0.031	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.199	0.035	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.797	0.258	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.199	0.030	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.199	0.085	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.199	0.013	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.199	0.014	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.199	0.010	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.199	0.044	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.199	0.021	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.199	0.016	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.199	0.024	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.797	0.038	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.797	0.030	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.199	0.022	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07 RE Date Collected: 10/01/24 12:20

Client ID: WC-C-2 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.797	0.030	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.797	0.040	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.199	0.026	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.199	0.022	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.99	0.121	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.99	0.081	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.399	0.017	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.399	0.024	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.399	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.399	0.082	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.997	0.092	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.98	0.235	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.98	0.364	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07 RE Date Collected: 10/01/24 12:20

Client ID: WC-C-2 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	89		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	85		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	92		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	93		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	99		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	93		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	94		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	108		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	112		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	95		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	97		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	101		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	103		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	92		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	80		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	75		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	81		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	75		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	79		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	67		15-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08
Client ID: WC-C-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:40
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/07/24 16:44
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 09:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	1000		ug/kg	110	21.	1
Naphthalene	72	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
Benzo(a)anthracene	520		ug/kg	110	21.	1
Benzo(a)pyrene	570		ug/kg	150	46.	1
Benzo(b)fluoranthene	760		ug/kg	110	31.	1
Benzo(k)fluoranthene	280		ug/kg	110	30.	1
Chrysene	530		ug/kg	110	19.	1
Acenaphthylene	73	J	ug/kg	150	29.	1
Anthracene	130		ug/kg	110	36.	1
Benzo(ghi)perylene	370		ug/kg	150	22.	1
Fluorene	32	J	ug/kg	190	18.	1
Phenanthrene	380		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	90	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	370		ug/kg	150	26.	1
Pyrene	860		ug/kg	110	18.	1
Aniline	ND		ug/kg	220	88.	1
Dibenzofuran	28	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08 Date Collected: 10/01/24 12:40

Client ID: WC-C-3 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	49		10-136
4-Terphenyl-d14	44		18-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08 RE
Client ID: WC-C-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:40
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 10/26/24 13:08
Analyst: ANH
Percent Solids: 87%

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.041	J	ng/g	0.791	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.395	0.038	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.020	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.791	0.077	1
Perfluorohexanoic Acid (PFHxA)	0.075	J	ng/g	0.198	0.015	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.012	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.020	1
Perfluorooctanoic Acid (PFOA)	0.047	J	ng/g	0.198	0.026	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.159	J	ng/g	0.791	0.146	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.044	1
Perfluorononanoic Acid (PFNA)	0.040	J	ng/g	0.198	0.013	1
Perfluorooctanesulfonic Acid (PFOS)	0.259		ng/g	0.198	0.031	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.035	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.791	0.256	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.029	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.085	1
Perfluoroundecanoic Acid (PFUnA)	0.032	J	ng/g	0.198	0.013	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.014	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.010	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.044	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.021	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.016	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.024	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.791	0.038	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.791	0.029	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.021	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08 RE Date Collected: 10/01/24 12:40

Client ID: WC-C-3 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.791	0.029	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.791	0.040	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.026	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.021	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.120	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.081	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.395	0.017	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.395	0.024	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.395	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.395	0.082	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.989	0.091	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.94	0.233	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.94	0.361	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08 RE Date Collected: 10/01/24 12:40

Client ID: WC-C-3 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	74		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	84		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	85		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	70		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	70		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	94		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	90		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	93		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	93		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	99		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	92		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	96		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	106		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	61		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	77		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	77		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	74		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	66		15-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09
Client ID: WC-C-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 13:10
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/07/24 16:21
Analyst: EK
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 09:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	190	25.	1
Hexachlorobenzene	ND		ug/kg	140	27.	1
Fluoranthene	260		ug/kg	140	27.	1
Naphthalene	31	J	ug/kg	240	29.	1
Nitrobenzene	ND		ug/kg	210	35.	1
Benzo(a)anthracene	130	J	ug/kg	140	27.	1
Benzo(a)pyrene	130	J	ug/kg	190	58.	1
Benzo(b)fluoranthene	170		ug/kg	140	40.	1
Benzo(k)fluoranthene	74	J	ug/kg	140	38.	1
Chrysene	130	J	ug/kg	140	25.	1
Acenaphthylene	ND		ug/kg	190	37.	1
Anthracene	ND		ug/kg	140	46.	1
Benzo(ghi)perylene	88	J	ug/kg	190	28.	1
Fluorene	ND		ug/kg	240	23.	1
Phenanthrene	120	J	ug/kg	140	29.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	27.	1
Indeno(1,2,3-cd)pyrene	87	J	ug/kg	190	33.	1
Pyrene	210		ug/kg	140	24.	1
Aniline	ND		ug/kg	280	110	1
Dibenzofuran	ND		ug/kg	240	22.	1
Pentachlorophenol	ND		ug/kg	190	52.	1
Phenol	ND		ug/kg	240	36.	1
2-Methylphenol	ND		ug/kg	240	37.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	340	37.	1
1,4-Dioxane	ND		ug/kg	36	11.	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09 Date Collected: 10/01/24 13:10

Client ID: WC-C-4 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	28		10-136
4-Terphenyl-d14	35		18-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09 RE
Client ID: WC-C-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 13:10
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 10/26/24 13:17
Analyst: ANH
Percent Solids: 70%

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.792	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.396	0.038	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.198	0.020	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.792	0.077	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.198	0.015	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.198	0.026	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.198	0.012	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.198	0.020	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.198	0.026	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.792	0.147	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.198	0.044	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.198	0.013	1
Perfluorooctanesulfonic Acid (PFOS)	0.115	J	ng/g	0.198	0.031	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.198	0.035	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.792	0.257	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.198	0.029	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.198	0.085	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.198	0.013	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.198	0.014	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.198	0.010	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.198	0.044	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.198	0.021	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.198	0.016	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.198	0.024	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.792	0.038	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.792	0.029	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.198	0.021	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09 RE Date Collected: 10/01/24 13:10

Client ID: WC-C-4 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.792	0.029	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.792	0.040	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.198	0.026	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.198	0.021	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.98	0.120	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.98	0.081	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.396	0.017	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.396	0.024	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.396	0.046	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.396	0.082	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.991	0.091	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.95	0.234	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.95	0.362	1

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09 RE Date Collected: 10/01/24 13:10

Client ID: WC-C-4 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	80		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	83		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	85		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	89		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	77		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	85		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	95		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	91		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	94		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	91		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	87		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	92		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	100		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	99		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	83		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	79		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	71		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	82		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	78		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	78		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	70		15-130

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/05/24 00:06
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/04/24 12:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1980262-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Aniline	ND		ug/kg	200	78.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/05/24 00:06
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 10/04/24 12:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1980262-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	68		18-120

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/26/24 12:03
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06-09 Batch: WG1989121-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.028
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.038
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.020
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.078
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.015
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.026
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.012
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.020
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.026
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.148
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.045
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.013
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.031
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.035
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.259
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.030
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.086
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.013
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.014
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.010
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.044
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.021
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.016
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.024
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.038
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.030
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.022

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/26/24 12:03
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06-09 Batch: WG1989121-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.030
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.040
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.026
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.022
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.122
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.082
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.017
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.024
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.046
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.082
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.092
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.236
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	0.366

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 10/26/24 12:03
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 10/25/24 14:20
Cleanup Method: EPA 1633
Cleanup Date: 10/25/24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 06-09 Batch: WG1989121-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	80		8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	87		35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	97		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	77		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	82		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	98		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	91		40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	104		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	97		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	94		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	93		40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	99		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	114		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	95		40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	95		40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	76		20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	68		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	92		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	85		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	78		20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	69		15-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1980262-2 WG1980262-3								
Acenaphthene	52		57		31-137	9		50
Hexachlorobenzene	52		55		40-140	6		50
Fluoranthene	56		60		40-140	7		50
Naphthalene	52		58		40-140	11		50
Nitrobenzene	54		62		40-140	14		50
Benzo(a)anthracene	52		56		40-140	7		50
Benzo(a)pyrene	50		54		40-140	8		50
Benzo(b)fluoranthene	51		53		40-140	4		50
Benzo(k)fluoranthene	52		55		40-140	6		50
Chrysene	53		56		40-140	6		50
Acenaphthylene	55		61		40-140	10		50
Anthracene	53		58		40-140	9		50
Benzo(ghi)perylene	51		54		40-140	6		50
Fluorene	53		58		40-140	9		50
Phenanthrene	51		56		40-140	9		50
Dibenzo(a,h)anthracene	51		54		40-140	6		50
Indeno(1,2,3-cd)pyrene	49		55		40-140	12		50
Pyrene	57		61		35-142	7		50
Aniline	40		48		40-140	18		50
Dibenzofuran	54		58		40-140	7		50
Pentachlorophenol	52		56		17-109	7		50
Phenol	54		62		26-90	14		50
2-Methylphenol	54		62		30-130.	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1980262-2 WG1980262-3								
3-Methylphenol/4-Methylphenol	59		67		30-130	13		50
1,4-Dioxane	47		53		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		64		25-120
Phenol-d6	54		61		10-120
Nitrobenzene-d5	56		64		23-120
2-Fluorobiphenyl	58		64		30-120
2,4,6-Tribromophenol	50		55		10-136
4-Terphenyl-d14	57		60		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	113		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	110		-		60-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	101		-		65-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	97		-		60-150	-		30
Perfluorohexanoic Acid (PFHxA)	110		-		65-140	-		30
Perfluoropentanesulfonic Acid (PFPeS)	93		-		55-160	-		30
Perfluoroheptanoic Acid (PFHpA)	96		-		65-145	-		30
Perfluorohexanesulfonic Acid (PFHxS)	88		-		60-150	-		30
Perfluorooctanoic Acid (PFOA)	103		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	97		-		55-200	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	105		-		65-155	-		30
Perfluorononanoic Acid (PFNA)	106		-		70-155	-		30
Perfluorooctanesulfonic Acid (PFOS)	111		-		65-160	-		30
Perfluorodecanoic Acid (PFDA)	123		-		70-155	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	104		-		70-150	-		30
Perfluorononanesulfonic Acid (PFNS)	106		-		55-140	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	97		-		65-155	-		30
Perfluoroundecanoic Acid (PFUnA)	95		-		70-155	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		40-155	-		30
Perfluorooctanesulfonamide (PFOSA)	95		-		70-140	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	100		-		65-165	-		30
Perfluorododecanoic Acid (PFDoA)	109		-		70-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	112		-		65-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	108		-		65-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	108		-		70-145	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	**242**	Q	-		70-160	-		30
Perfluorododecanesulfonic Acid (PFDoS)	99		-		25-160	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	110		-		70-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	107		-		45-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	100		-		70-155	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	100		-		70-140	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	100		-		70-140	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	107		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	107		-		30-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	100		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	114		-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	88		-		60-155	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	102		-		45-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	114		-		60-130	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	87		-		60-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-2 LOW LEVEL

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	82				8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94				35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	91				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	88				40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	87				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	101				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	95				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	88				40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	97				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	85				40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	78				40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	102				40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	109				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	88				40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	87				40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78				20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	75				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	92				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	83				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	71				20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	70				15-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-3								
Perfluorobutanoic Acid (PFBA)	124		-		70-140	-		30
Perfluoropentanoic Acid (PFPeA)	126		-		60-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	105		-		65-145	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	128		-		60-150	-		30
Perfluorohexanoic Acid (PFHxA)	126		-		65-140	-		30
Perfluoropentanesulfonic Acid (PFPeS)	113		-		55-160	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		65-145	-		30
Perfluorohexanesulfonic Acid (PFHxS)	106		-		60-150	-		30
Perfluorooctanoic Acid (PFOA)	120		-		70-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	140		-		55-200	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	116		-		65-155	-		30
Perfluorononanoic Acid (PFNA)	117		-		70-155	-		30
Perfluorooctanesulfonic Acid (PFOS)	112		-		65-160	-		30
Perfluorodecanoic Acid (PFDA)	111		-		70-155	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	118		-		70-150	-		30
Perfluorononanesulfonic Acid (PFNS)	123		-		55-140	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	112		-		65-155	-		30
Perfluoroundecanoic Acid (PFUnA)	119		-		70-155	-		30
Perfluorodecanesulfonic Acid (PFDS)	115		-		40-155	-		30
Perfluorooctanesulfonamide (PFOSA)	110		-		70-140	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		65-165	-		30
Perfluorododecanoic Acid (PFDoA)	117		-		70-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-3								
Perfluorotridecanoic Acid (PFTrDA)	121		-		65-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	130		-		65-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	137		-		70-145	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	**223**	Q	-		70-160	-		30
Perfluorododecanesulfonic Acid (PFDoS)	108		-		25-160	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	127		-		70-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	121		-		45-160	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	106		-		70-155	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	103		-		70-140	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	116		-		70-140	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	127		-		70-135	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	119		-		30-140	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	122		-		60-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	**141**	Q	-		70-140	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	107		-		60-155	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	110		-		45-130	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	**140**	Q	-		60-130	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	112		-		60-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 06-09 Batch: WG1989121-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	85				8-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91				35-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	90				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86				40-165
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	96				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	94				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	86				40-215
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	97				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	92				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	98				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	83				40-275
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	80				40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	93				40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	99				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	90				40-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	85				40-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	66				20-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	75				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	86				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	84				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	70				20-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	70				15-130

PESTICIDES

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06
Client ID: WC-C-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:05
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/24 14:47
Analyst: AKM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 16:48
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.737	0.329	1	A
Alpha-BHC	ND		ug/kg	0.737	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.884	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Endrin	ND		ug/kg	0.737	0.302	1	A
Dieldrin	ND		ug/kg	1.10	0.553	1	A
4,4'-DDE	3.75		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND	IP	ug/kg	1.77	0.631	1	B
4,4'-DDT	ND		ug/kg	1.77	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.591	1	A
Endosulfan sulfate	ND		ug/kg	0.737	0.351	1	A
cis-Chlordane	ND		ug/kg	2.21	0.616	1	A
Chlordane	ND		ug/kg	14.7	5.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07
Client ID: WC-C-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:20
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/24 14:59
Analyst: AKM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 16:48
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.764	0.341	1	A
Alpha-BHC	ND		ug/kg	0.764	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.695	1	A
Heptachlor	ND		ug/kg	0.916	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.645	1	A
Endrin	ND		ug/kg	0.764	0.313	1	A
Dieldrin	ND		ug/kg	1.14	0.573	1	A
4,4'-DDE	2.79		ug/kg	1.83	0.424	1	A
4,4'-DDD	ND		ug/kg	1.83	0.654	1	A
4,4'-DDT	ND		ug/kg	1.83	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.612	1	A
Endosulfan sulfate	ND		ug/kg	0.764	0.363	1	A
cis-Chlordane	ND		ug/kg	2.29	0.638	1	A
Chlordane	ND		ug/kg	15.3	6.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08
Client ID: WC-C-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:40
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/24 15:10
Analyst: AKM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 16:48
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.759	0.339	1	A
Alpha-BHC	ND		ug/kg	0.759	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.691	1	A
Heptachlor	ND		ug/kg	0.911	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Endrin	ND		ug/kg	0.759	0.311	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	0.829	J	ug/kg	1.82	0.421	1	B
4,4'-DDD	ND		ug/kg	1.82	0.650	1	A
4,4'-DDT	2.47		ug/kg	1.82	1.46	1	B
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.609	1	A
Endosulfan sulfate	ND		ug/kg	0.759	0.361	1	A
cis-Chlordane	ND		ug/kg	2.28	0.634	1	A
Chlordane	ND		ug/kg	15.2	6.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09
Client ID: WC-C-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 13:10
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/06/24 15:22
Analyst: AKM
Percent Solids: 70%

Extraction Method: EPA 3546
Extraction Date: 10/05/24 16:48
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.15	0.422	1	A
Lindane	ND		ug/kg	0.898	0.401	1	A
Alpha-BHC	ND		ug/kg	0.898	0.255	1	A
Beta-BHC	ND		ug/kg	2.15	0.817	1	A
Heptachlor	9.28		ug/kg	1.08	0.483	1	A
Aldrin	ND		ug/kg	2.15	0.758	1	A
Endrin	ND		ug/kg	0.898	0.368	1	A
Dieldrin	ND		ug/kg	1.35	0.673	1	A
4,4'-DDE	5.98		ug/kg	2.15	0.498	1	B
4,4'-DDD	ND		ug/kg	2.15	0.768	1	A
4,4'-DDT	ND		ug/kg	2.15	1.73	1	A
Endosulfan I	ND		ug/kg	2.15	0.509	1	A
Endosulfan II	ND		ug/kg	2.15	0.720	1	A
Endosulfan sulfate	ND		ug/kg	0.898	0.427	1	A
cis-Chlordane	ND		ug/kg	2.69	0.750	1	A
Chlordane	ND		ug/kg	18.0	7.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	110		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/06/24 12:07
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/05/24 16:48
Cleanup Method: EPA 3620B
Cleanup Date: 10/06/24
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-09 Batch: WG1980569-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Endrin	ND		ug/kg	0.646	0.265	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	1.55	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.308	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
Chlordane	ND		ug/kg	12.9	5.14	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-09 Batch: WG1980569-2 WG1980569-3									
Delta-BHC	87		93		30-150	7		30	A
Lindane	82		87		30-150	6		30	A
Alpha-BHC	87		92		30-150	6		30	A
Beta-BHC	90		97		30-150	7		30	A
Heptachlor	84		89		30-150	6		30	A
Aldrin	83		89		30-150	7		30	A
Endrin	92		100		30-150	8		30	A
Dieldrin	98		108		30-150	10		30	A
4,4'-DDE	88		98		30-150	11		30	A
4,4'-DDD	98		108		30-150	10		30	A
4,4'-DDT	80		85		30-150	6		30	A
Endosulfan I	82		89		30-150	8		30	A
Endosulfan II	91		100		30-150	9		30	A
Endosulfan sulfate	91		100		30-150	9		30	A
cis-Chlordane	85		93		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		82		30-150	A
Decachlorobiphenyl	98		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		88		30-150	B
Decachlorobiphenyl	91		98		30-150	B

METALS

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06 Date Collected: 10/01/24 12:05

Client ID: WC-C-1 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.9		mg/kg	1.73	0.361	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Barium, Total	108		mg/kg	1.73	0.302	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Beryllium, Total	1.15		mg/kg	0.867	0.057	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Cadmium, Total	1.09	J	mg/kg	1.73	0.170	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Chromium, Total	122		mg/kg	1.73	0.166	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Copper, Total	101		mg/kg	1.73	0.447	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Lead, Total	318		mg/kg	8.67	0.465	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Manganese, Total	2300		mg/kg	1.73	0.276	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Mercury, Total	0.835		mg/kg	0.076	0.049	1	10/07/24 22:35	10/08/24 08:21	EPA 7471B	1,7471B	JWN
Nickel, Total	23.0		mg/kg	4.34	0.420	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	3.47	0.447	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.867	0.491	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
Zinc, Total	267		mg/kg	8.67	0.508	4	10/07/24 21:40	10/08/24 09:47	EPA 3050B	1,6010D	DMC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	122		mg/kg	1.73	0.183	1		10/08/24 09:47	NA	107,-	

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07 Date Collected: 10/01/24 12:20

Client ID: WC-C-2 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.2		mg/kg	1.74	0.363	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Barium, Total	106		mg/kg	1.74	0.303	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.959		mg/kg	0.872	0.058	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.709	J	mg/kg	1.74	0.171	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Chromium, Total	129		mg/kg	1.74	0.167	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Copper, Total	87.8		mg/kg	1.74	0.450	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Lead, Total	171		mg/kg	8.72	0.467	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Manganese, Total	2840		mg/kg	1.74	0.277	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Mercury, Total	0.552		mg/kg	0.078	0.051	1	10/07/24 22:35	10/08/24 08:24	EPA 7471B	1,7471B	JWN
Nickel, Total	21.5		mg/kg	4.36	0.422	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Selenium, Total	0.489	J	mg/kg	3.49	0.450	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.872	0.493	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
Zinc, Total	248		mg/kg	8.72	0.511	4	10/07/24 21:40	10/08/24 09:51	EPA 3050B	1,6010D	DMC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	129		mg/kg	1.74	0.185	1		10/08/24 09:51	NA	107,-	

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08 Date Collected: 10/01/24 12:40

Client ID: WC-C-3 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.20		mg/kg	0.862	0.179	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Barium, Total	126		mg/kg	0.862	0.150	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Beryllium, Total	1.23		mg/kg	0.431	0.028	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.106	J	mg/kg	0.862	0.084	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Chromium, Total	204		mg/kg	0.862	0.083	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Copper, Total	779		mg/kg	0.862	0.222	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Lead, Total	170		mg/kg	4.31	0.231	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Manganese, Total	4080		mg/kg	0.862	0.137	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Mercury, Total	0.159		mg/kg	0.082	0.054	1	10/07/24 22:35	10/08/24 08:34	EPA 7471B	1,7471B	JWN
Nickel, Total	21.0		mg/kg	2.15	0.208	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.72	0.222	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.431	0.244	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
Zinc, Total	188		mg/kg	4.31	0.252	2	10/07/24 21:40	10/08/24 08:35	EPA 3050B	1,6010D	DMC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	204		mg/kg	0.917	0.183	1		10/08/24 08:35	NA	107,-	

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09 Date Collected: 10/01/24 13:10

Client ID: WC-C-4 Date Received: 10/01/24

Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	11.0		mg/kg	2.21	0.460	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Barium, Total	152		mg/kg	2.21	0.385	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Beryllium, Total	1.47		mg/kg	1.11	0.073	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.378	J	mg/kg	2.21	0.217	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Chromium, Total	483		mg/kg	2.21	0.212	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Copper, Total	92.4		mg/kg	2.21	0.571	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Lead, Total	154		mg/kg	11.1	0.593	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Manganese, Total	10700		mg/kg	2.21	0.352	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Mercury, Total	0.314		mg/kg	0.099	0.064	1	10/07/24 22:35	10/08/24 08:37	EPA 7471B	1,7471B	JWN
Nickel, Total	34.8		mg/kg	5.53	0.536	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	4.42	0.571	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	1.11	0.626	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
Zinc, Total	225		mg/kg	11.1	0.648	4	10/07/24 21:40	10/08/24 09:55	EPA 3050B	1,6010D	DMC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	483		mg/kg	2.21	0.229	1		10/08/24 09:55	NA	107,-	

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-09 Batch: WG1979567-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Barium, Total	ND		mg/kg	0.400	0.070	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Copper, Total	ND		mg/kg	0.400	0.103	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Lead, Total	ND		mg/kg	2.00	0.107	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Silver, Total	ND		mg/kg	0.200	0.113	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/07/24 21:40	10/08/24 07:48	1,6010D	DMC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-09 Batch: WG1979584-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/07/24 22:35	10/08/24 08:01	1,7471B	JWN

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-09 Batch: WG1979567-2								
Arsenic, Total	104		-		80-120	-		
Barium, Total	106		-		80-120	-		
Beryllium, Total	109		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Chromium, Total	111		-		80-120	-		
Copper, Total	113		-		80-120	-		
Lead, Total	106		-		80-120	-		
Manganese, Total	108		-		80-120	-		
Nickel, Total	114		-		80-120	-		
Selenium, Total	105		-		80-120	-		
Silver, Total	96		-		80-120	-		
Zinc, Total	114		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 06-09 Batch: WG1979584-2								
Mercury, Total	97		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-09 QC Batch ID: WG1979567-3 QC Sample: L2456735-01 Client ID: MS Sample												
Arsenic, Total	34.3	10.5	44.2	94		-	-		75-125	-		20
Barium, Total	33.8	175	206	98		-	-		75-125	-		20
Beryllium, Total	0.415J	4.37	4.84	111		-	-		75-125	-		20
Cadmium, Total	0.105J	4.63	4.44	96		-	-		75-125	-		20
Chromium, Total	11.9	17.5	30.1	104		-	-		75-125	-		20
Copper, Total	16.8	21.8	38.8	101		-	-		75-125	-		20
Lead, Total	10.4	46.3	58.4	104		-	-		75-125	-		20
Manganese, Total	517	43.7	546	**66**	Q	-	-		75-125	-		20
Nickel, Total	13.1	43.7	56.8	100		-	-		75-125	-		20
Selenium, Total	ND	10.5	10.5	100		-	-		75-125	-		20
Silver, Total	ND	4.37	3.90	89		-	-		75-125	-		20
Zinc, Total	55.5	43.7	94.7	90		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 06-09 QC Batch ID: WG1979584-3 QC Sample: L2456735-01 Client ID: MS Sample												
Mercury, Total	ND	1.57	1.54	98		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-09 QC Batch ID: WG1979567-4 QC Sample: L2456735-01 Client ID: DUP Sample						
Arsenic, Total	34.3	40.2	mg/kg	16		20
Barium, Total	33.8	35.1	mg/kg	4		20
Beryllium, Total	0.415J	0.464	mg/kg	NC		20
Cadmium, Total	0.105J	0.124J	mg/kg	NC		20
Chromium, Total	11.9	13.1	mg/kg	10		20
Copper, Total	16.8	17.2	mg/kg	2		20
Lead, Total	10.4	12.7	mg/kg	20		20
Manganese, Total	517	559	mg/kg	8		20
Nickel, Total	13.1	13.8	mg/kg	5		20
Selenium, Total	ND	0.239J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	55.5	51.0	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 06-09 QC Batch ID: WG1979584-4 QC Sample: L2456735-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-01
Client ID: WC-G-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/24 10:10
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-02
Client ID: WC-G-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/24 10:15
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-03
Client ID: WC-G-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/24 10:20
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-04
Client ID: WC-G-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/24 10:25
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-05
Client ID: WC-G-5
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/01/24 13:00
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.4		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-06
Client ID: WC-C-1
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:05
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI
Cyanide, Total	1.1		mg/kg	1.1	0.22	1	10/02/24 20:10	10/03/24 12:25	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.916	0.183	1	10/03/24 10:29	10/04/24 15:10	1,7196A	RDS

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-07
Client ID: WC-C-2
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/01/24 12:20
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI
Cyanide, Total	2.4		mg/kg	1.1	0.23	1	10/02/24 20:10	10/03/24 12:26	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.925	0.185	1	10/03/24 10:29	10/04/24 15:10	1,7196A	RDS

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-08
Client ID: WC-C-3
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY

Date Collected: 10/01/24 12:40
Date Received: 10/01/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI
Cyanide, Total	2.3		mg/kg	1.1	0.23	1	10/02/24 20:10	10/03/24 12:27	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	10/03/24 10:29	10/04/24 15:10	1,7196A	RDS

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified
Lab Number: L2456688
Report Date: 10/28/24

SAMPLE RESULTS

Lab ID: L2456688-09
Client ID: WC-C-4
Sample Location: 1339 SOUTH PARK AVE, BUFFALO, NY
Sample Depth:
Matrix: Soil
Date Collected: 10/01/24 13:10
Date Received: 10/01/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.9		%	0.100	NA	1	-	10/02/24 11:31	121,2540G	ROI
Cyanide, Total	1.4		mg/kg	1.3	0.28	1	10/02/24 20:10	10/03/24 12:28	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.14	0.229	1	10/03/24 10:29	10/04/24 15:10	1,7196A	RDS

Project Name: TESLA WASTE CHARACTERIZATION **Lab Number:** L2456688

Project Number: Not Specified **Report Date:** 10/28/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 06-09 Batch: WG1979369-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	10/02/24 20:10	10/03/24 12:10	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 06-09 Batch: WG1979606-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/03/24 10:29	10/04/24 15:10	1,7196A	RDS

Lab Control Sample Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-09 Batch: WG1979369-2 WG1979369-3								
Cyanide, Total	91		99		80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 06-09 Batch: WG1979606-2								
Chromium, Hexavalent	108		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-09 QC Batch ID: WG1979369-4 WG1979369-5 QC Sample: L2456469-01 Client ID: MS Sample												
Cyanide, Total	ND	35	32	91		31	90		75-125	25		35
General Chemistry - Westborough Lab Associated sample(s): 06-09 QC Batch ID: WG1979369-6 WG1979369-7 QC Sample: L2456469-02 Client ID: MS Sample												
Cyanide, Total	ND	42	40	95		38	93		75-125	5		35
General Chemistry - Westborough Lab Associated sample(s): 06-09 QC Batch ID: WG1979606-4 QC Sample: L2456688-07 Client ID: WC-C-2												
Chromium, Hexavalent	ND	1400	1010	**72**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TESLA WASTE CHARACTERIZATION

Project Number: Not Specified

Lab Number: L2456688

Report Date: 10/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1979050-1 QC Sample: L2456674-01 Client ID: DUP Sample						
Solids, Total	96.3	94.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-09 QC Batch ID: WG1979606-6 QC Sample: L2456688-07 Client ID: WC-C-2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

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(*)
L2456688-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L2456688-01B	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-01C	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-01D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2456688-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L2456688-02B	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-02C	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-02D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2456688-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L2456688-03B	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-03C	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-03D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2456688-04A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L2456688-04B	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-04C	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-04D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2456688-05A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L2456688-05B	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-05C	Vial water preserved	A	NA		3.2	Y	Absent	02-OCT-24 08:30	NYTCL-8260HLW-R2(14)
L2456688-05D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2456688-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: TESLA WASTE CHARACTERIZATION
Project Number: Not Specified

Lab Number: L2456688
Report Date: 10/28/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2456688-06B	Vial Large Septa unpreserved (4oz)	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-06C	Plastic 8oz unpreserved	A	NA		3.2	Y	Absent		A2-NY-1633(90)
L2456688-06D	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2456688-07B	Vial Large Septa unpreserved (4oz)	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-07C	Plastic 8oz unpreserved	A	NA		3.2	Y	Absent		A2-NY-1633(90)
L2456688-07D	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2456688-08B	Vial Large Septa unpreserved (4oz)	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-08C	Plastic 8oz unpreserved	A	NA		3.2	Y	Absent		A2-NY-1633(90)
L2456688-08D	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2456688-09B	Vial Large Septa unpreserved (4oz)	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L2456688-09C	Plastic 8oz unpreserved	A	NA		3.2	Y	Absent		A2-NY-1633(90)
L2456688-09D	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: TESLA WASTE CHARACTERIZATION
Project Number:

Lab Number: L2456688
Report Date: 10/28/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: TESLA WASTE CHARACTERIZATION
Project Number:

Lab Number: L2456688
Report Date: 10/28/24

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

Data Qualifiers

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

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

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

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

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

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	TESLA WASTE CHARACTERIZATION	**Lab Number:**	L2456688
Project Number:	Not Specified	**Report Date:**	10/28/24

REFERENCES

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

107 Calculation method.

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

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine, 2,6-Dichlorophenol.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

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

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA

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

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: 10/2/24

ALPHA Job #: L2456688

Project Information
Project Name: Tesla Waste Characterization
Project Location: 1339 South Park Ave, Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager: Bryan Hann
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

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:

Client Information
Client: TRC
Address: 1090 Union Rd
West Seneca, NY
Phone: 716-336-5544
Fax:
Email: RCappellano@trccompanies.com

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Standard TAT & deliverable
Analysis for Part 375

Please specify Metals or TAL.

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	VOCs 8260	SVOCs 8270	Total Metals 6010	Pesticides 8081	PFAS 1633	TSS	Total Bottle	Sample Specific Comments
56688-01	WC-G-1	10/1	10:10	Soil	CPL	X					X		
02	WC-G-2		10:15			X					X		
03	WC-G-3		10:20			X					X		
04	WC-G-4		10:25			X					X		
05	WC-G-5		1300			X					X		
06	WC-C-1		12:05				X	X	X	X			
07	WC-C-2		12:20										
08	WC-C-3		12:40										
09	WC-C-4		13:10										
Container Type						A	A	A	A	P			
Preservative						W/F	A	A	A	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
Lab Coppell	10/1/24 15:30	Joaquim Foley (PACE)	10/1/24 15:30
Joaquim Foley (PACE)	10/1/24 15:30	Buffalo Service Center	10/1/24 15:30
Russell B Bailey	10-1-24 15:57		
	2336		10/2 0230

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)

ATTACHMENT 3

PHS, LLC
SPOILS STOCKPILE RADIOLOGICAL SURVEY REPORT

PSH, LLC
Radiological Services

PSH, LLC
633 Buckingham Street
Oakville, CT 06779
860-324-6599

Bryan C. Hann, P.G.
Senior Geologist / Project Manager
TRC Companies
1090 Union Road, Suite 280
West Seneca, NY 1422

7/12/2024

Re: **Tesla Gigafactory Site Spoils Stockpile Radiological Survey**

Dear Mr. Hann:

PSH, LLC under contract to TRC was tasked with performing a gamma count rate survey scan of a spoils stockpile currently located at the Tesla Gigafactory, 1339 South Park Ave, Buffalo, NY 14220 (former Republic Steel Plant). The survey was requested due to both the presence of visible slag materials in the pile and the historical existence of radioactive slag at the Tesla site property.

A Ludlum model 2221 ratemeter connected to a Ludlum model 44-10 sodium iodide detector was used for all survey measurements. The detector measurements were collected using both a collimated (shielded) and an uncollimated detector; the use of the collimator was utilized to minimize interference from other potential sources within the stockpile and surrounding areas. EPA's PROUCL was used to perform statistical calculations for the background count rate determination.

An area (see Figure 1 in **Attachment 1** to this report) near the site and considered to be unimpacted by anthropogenic sources of radioactivity was selected as the "background" location. Ten one-minute background counts were collected using the Ludlum count ratemeter with both a collimated and an uncollimated detector. The Mean and Upper Tolerance Level[1] (UTL) were calculated for the soil/gravel background area. Background counts and statistical analysis are contained in Attachment 1. The UTL was determined and used as the likely count rate which if exceeded would indicate the count rates were greater than typically background count rates and thus probably emanating from an anthropogenic course of radioactivity commonly referred to as technologically enhanced naturally occurring radioactive material (TENORM).

Figure 2 in **Attachment 2** shows the location of the stockpile within the gigafactory site property. For the stockpile survey, the Ludlum 44-10 sodium iodide detector was used to scan the stockpile, and one minute scalar count measurements were collected throughout the pile with both a collimated and uncollimated, and were recorded. Figure 3 in Attachment 2 provides an outline of the stockpile and recorded measurements. All measurements of the stockpile surface exceeded the UTL, and as such, there is the potential for the existence of TENORM materials within the stockpile

[1] The UTL is essentially the 95th percentile of the 95% confidence level of the distribution: roughly equal to three sigma above the mean. In environmental work it is used to distinguish between anthropogenic contamination and naturally occurring substances.

Four samples were then collected from four quadrants of the stockpile. These samples consisted of several soil extractions from a quadrant which were then composited as one sample for the respective quadrant. Samples were then sent to PACE laboratories in Juliet TN, where sample analysis will be performed using EPA Method 901.1M. This method requires sealing the sample container and waiting for twenty-one days before analysis. Consequently, the report when received will be provided under separate cover.

Attachment 3 provides the instrument quality assurance data and equipment calibration information.

Respectfully,

Peter Collopy

Peter Collopy, CHP, CIH, CSP, EIT, AIHA COEA
PSH EH&S Specialist

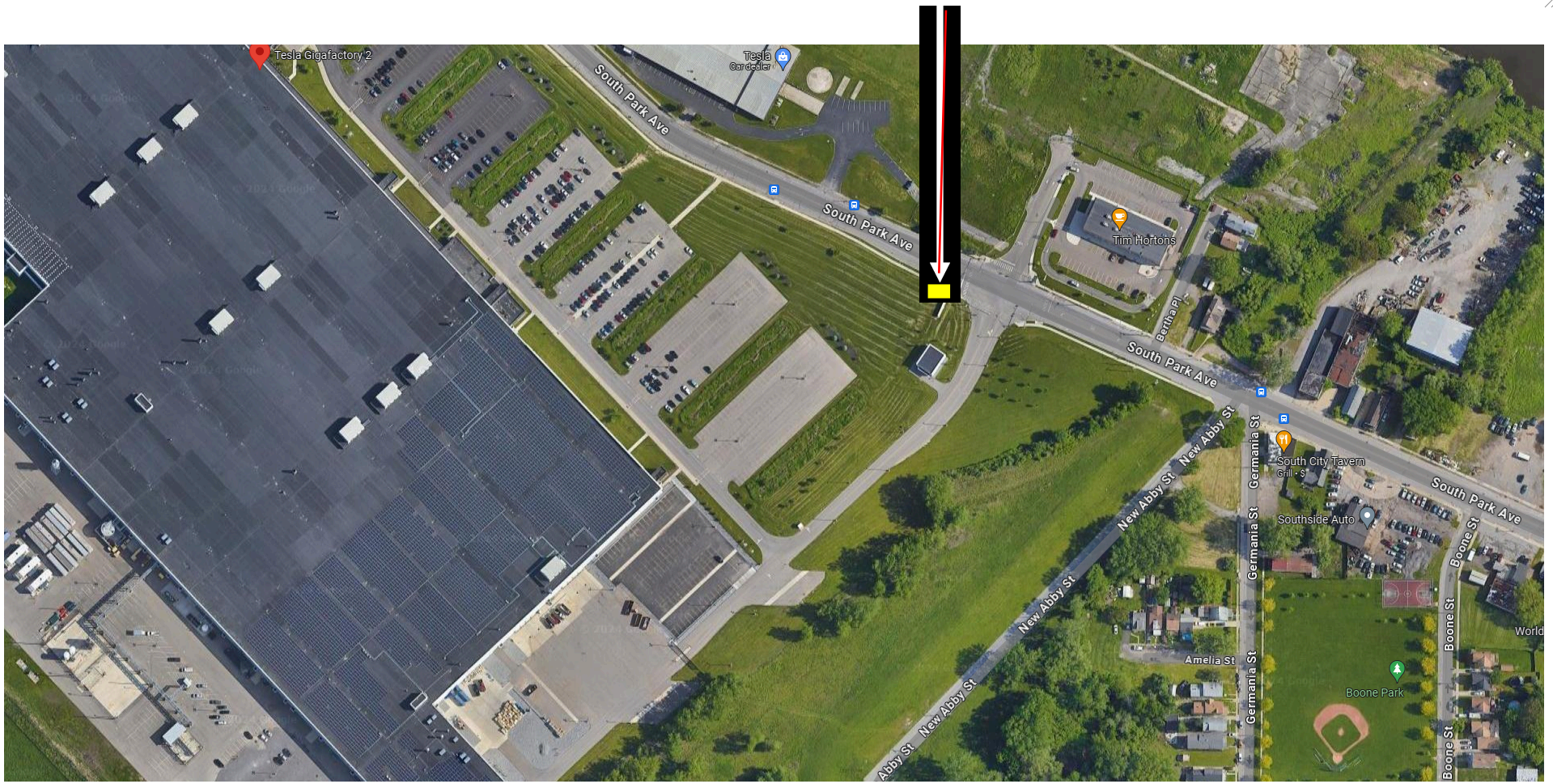
Enclosures: Attachment 1 - Background Data and Scan Locations
Attachment 2 - Count Rate Survey and Statistical Analysis
Attachment 3 - Instrument Calibration Certs and QA Checks
Attachment 4 - Photo of Spoils Stockpile
Attachment 5 - Photo of Spoils Stockpile (continued)
Attachment 6 - Pace Lab Chain of Custody

cc: Pat Horkman

Attachment 1
Background Location and Statistics

Figure 1 Background Location

Tesla Facility-Background Location

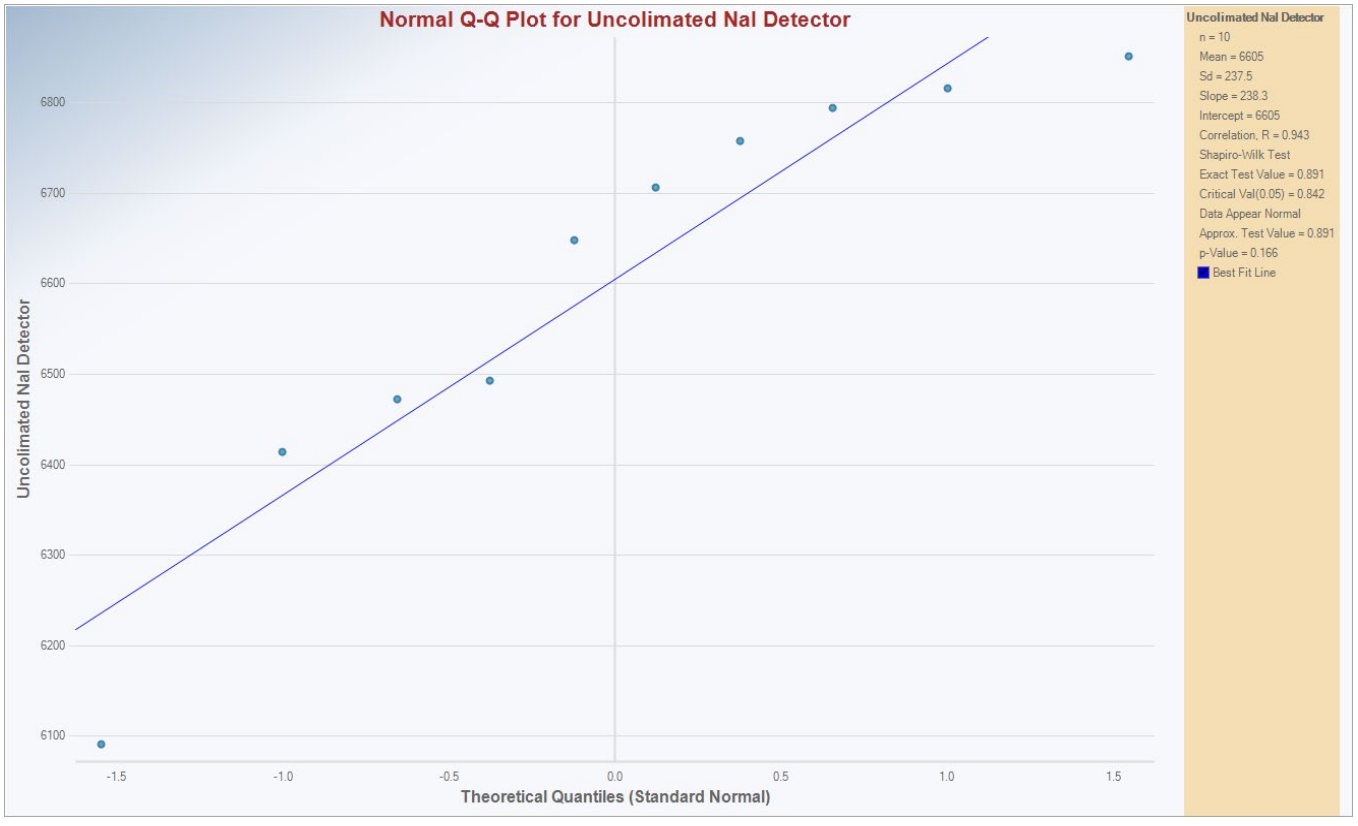


Initial 10-1 Minute Static Gamma Background Readings (cpm)

Project	Potential TENORM Slag Radiological Screening
Location	Tesla GIGA FACTORY SITE, South Park Ave, Buffalo, NY
Instrument	L-2221 #117357 w/44-10 #PR154615

Uncollimated

#	cpm
1	6852
2	6091
3	6414
4	6707
5	6649
6	6493
7	6473
8	6758
9	6816
10	6794
Mean	6605
UTL	7296



Uncolimated NaI Detector

General Statistics

Total Number of Observations	10	Number of Distinct Observations	10
Minimum	6091	First Quartile	6478
Second Largest	6816	Median	6678
Maximum	6852	Third Quartile	6785
Mean	6605	SD	237.5
Coefficient of Variation	0.036	Skewness	-1.141
Mean of logged Data	8.795	SD of logged Data	0.0366

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	2.911	d2max (for USL)	2.176

Normal GOF Test

Shapiro Wilk Test Statistic	0.891	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.781	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.174	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.304	Data appear Normal at 1% Significance Level	

Data appear Normal at 1% Significance Level

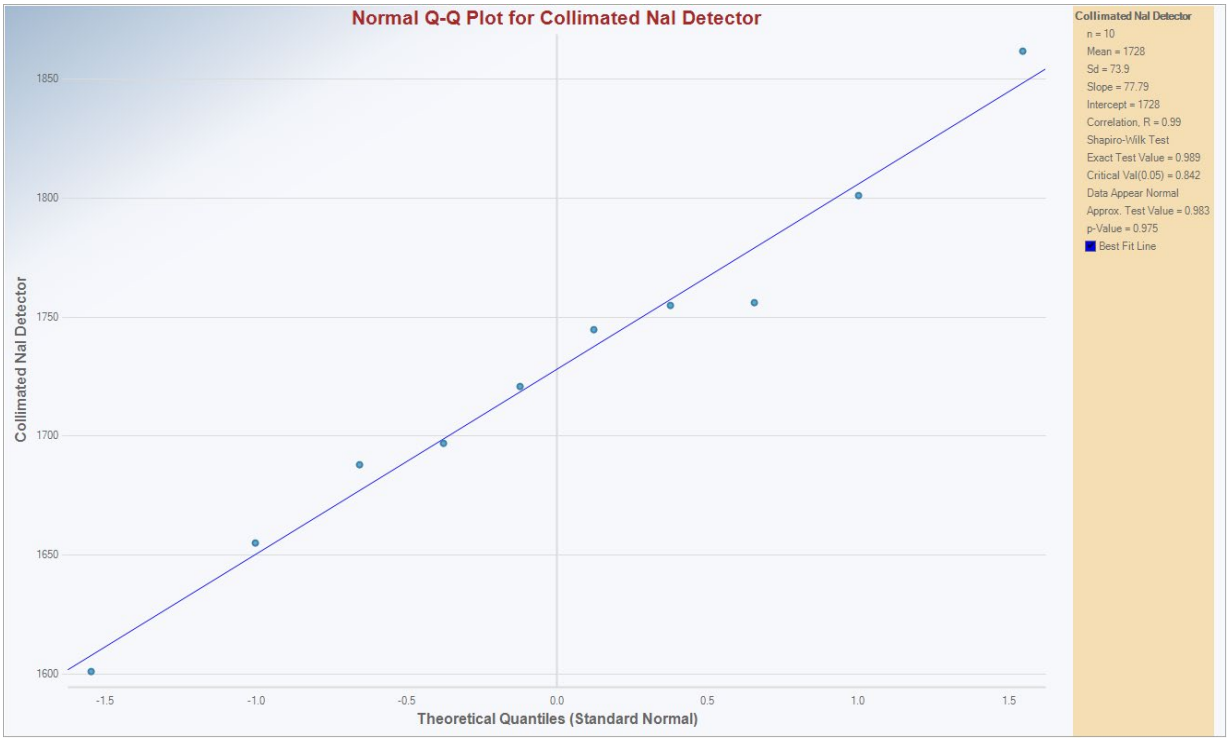
Background Statistics Assuming Normal Distribution

95% UTL with 95% Coverage	7296	90% Percentile (z)	6909
95% UPL (t)	7061	95% Percentile (z)	6995
95% USL	7122	99% Percentile (z)	7157

Initial 10-1 Minute Static Gamma Background Readings (cpm)

Project	Potential TENORM Slag Radiological Screening
Location	Tesla GIGA FACTORY SITE, South Park Ave, Buffalo, NY
Instrument	L-2221 #117357 w/44-10 #PR154615

Collimated	
#	cpm
1	1655
2	1721
3	1756
4	1862
5	1801
6	1755
7	1688
8	1697
9	1601
10	1745
Mean	1728
UTL	1943



Collimated NaI Detector

General Statistics

Total Number of Observations	10	Number of Distinct Observations	10
Minimum	1601	First Quartile	1690
Second Largest	1801	Median	1733
Maximum	1862	Third Quartile	1756
Mean	1728	SD	73.9
Coefficient of Variation	0.0428	Skewness	0.102
Mean of logged Data	7.454	SD of logged Data	0.0428

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	2.911	d2max (for USL)	2.176

Normal GOF Test

Shapiro Wilk Test Statistic	0.989	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.781	Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.153	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.304	Data appear Normal at 1% Significance Level	

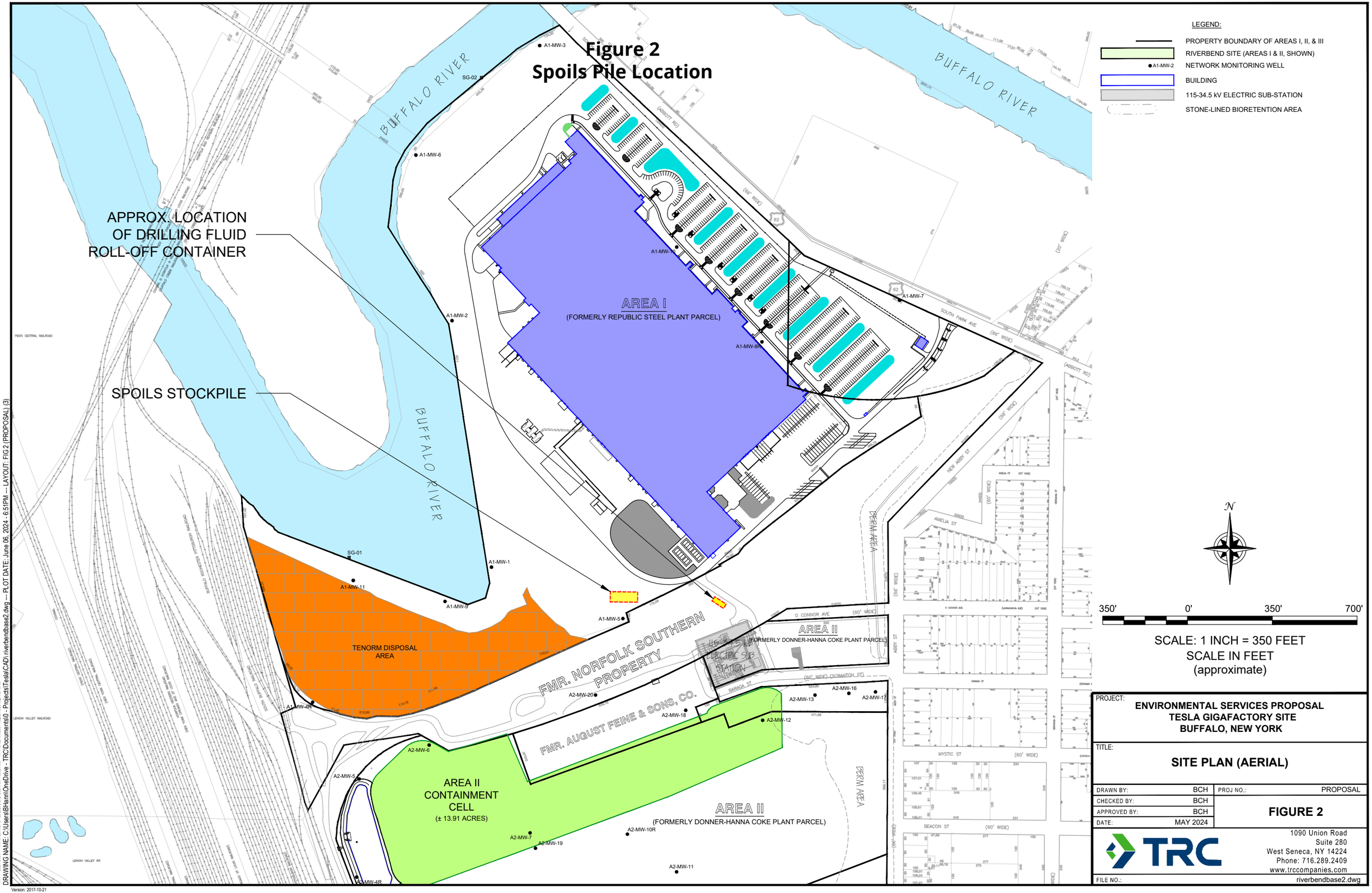
Data appear Normal at 1% Significance Level

Background Statistics Assuming Normal Distribution

95% UTL with 95% Coverage	1943	90% Percentile (z)	1823
95% UPL (t)	1870	95% Percentile (z)	1850
95% USL	1889	99% Percentile (z)	1900

Attachment 2
Spoils Pile Location and Survey Results

Figure 2
Spoils Pile Location



LEGEND:

- PROPERTY BOUNDARY OF AREAS I, II, & III
- RIVERBEND SITE (AREAS I & II, SHOWN)
- A1-MW-2 NETWORK MONITORING WELL
- BUILDING
- 115-34.5 kV ELECTRIC SUB-STATION
- STONE-LINED BIORETENTION AREA

N

350' 0' 350' 700'

SCALE: 1 INCH = 350 FEET
SCALE IN FEET
(approximate)

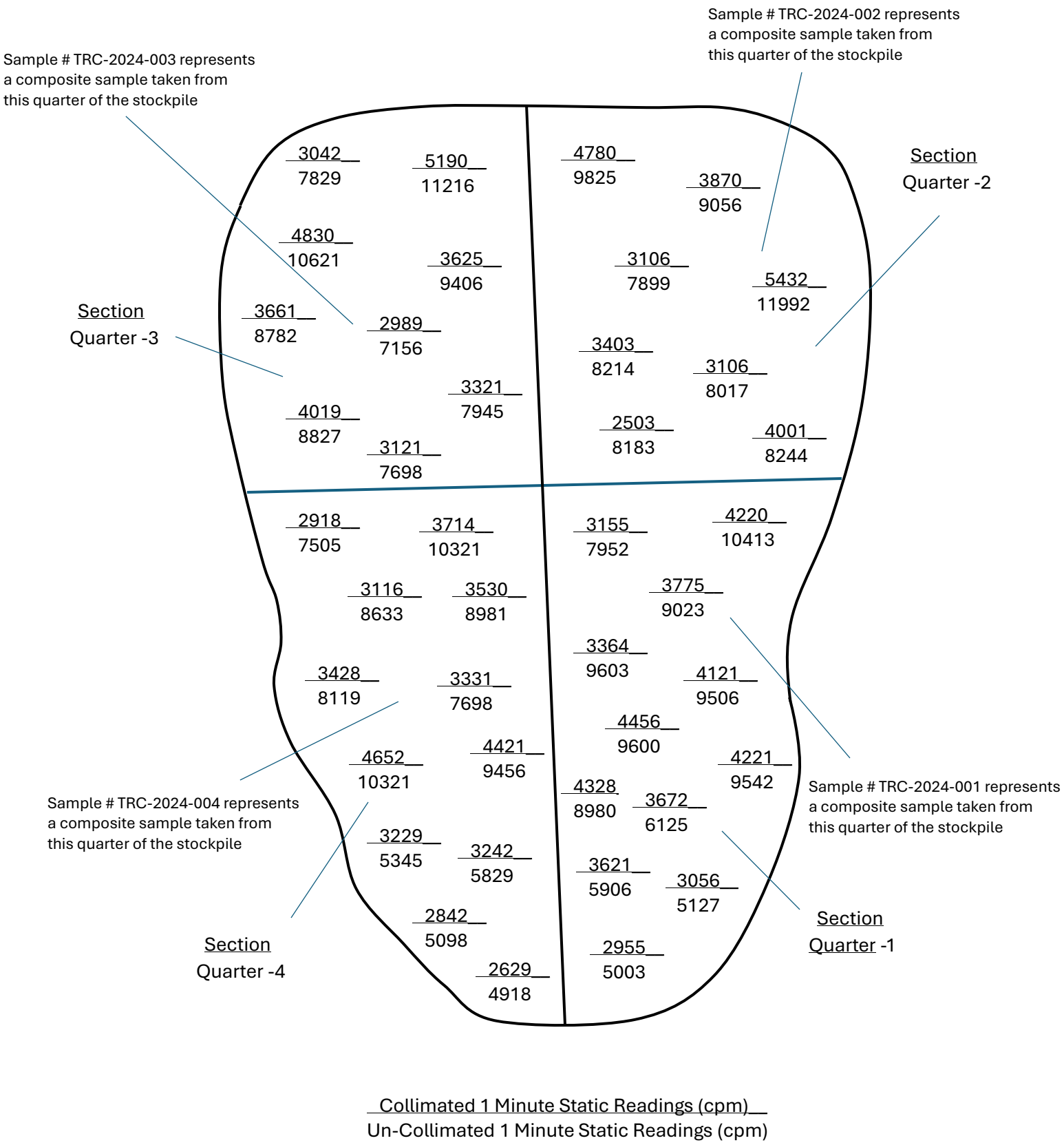
PROJECT:	**ENVIRONMENTAL SERVICES PROPOSAL TESLA GIGAFACTORY SITE BUFFALO, NEW YORK**
TITLE:	**SITE PLAN (AERIAL)**
DRAWN BY: BCH	PROJ NO.: PROPOSAL
CHECKED BY: BCH	**FIGURE 2**
APPROVED BY: BCH	
DATE: MAY 2024	

TRC
1090 Union Road
Suite 280
West Seneca, NY 14224
Phone: 716.289.2409
www.trccompanies.com

FILE NO.: riverbendbase2.dwg

11x17 - USER: Rhew - ATTACHED XREFS: (bd 2 2 REV) SOLAR CITY BUILDINGS - ATTACHED IMAGES: Header/Base.dwg (BLTOPO)
DRAWING NAME: C:\Users\BHamm\OneDrive - TRC\Documents\0 - Projects\Tesla\CAD\ riverbendbase2.dwg -- PLOT DATE: June 06, 2024 - 6:51PM -- LAYOUT: FIG 2 (PROPOSAL) (3)
Version: 2017-10-21

Figure 3
Tesla Gigafactory Spoils Stockpile Radiological Survey



Collimated 1 Minute Static Readings (cpm)
Un-Collimated 1 Minute Static Readings (cpm)

Attachment 3
Quality Assurance Data

Environmental Restoration Group, Inc.
8809 Washington St NE, Suite #150
Albuquerque, NM 87113
(505) 298-4224
www.ERGoffice.com

Certificate of Calibration

Meter Calibration

A2LA ACCREDITED CERT #6688.01

Customer: Environmental Restoration Group, Inc. *See address above.* Calibration Report No.: 5268

Calibration performed in accordance with ERG SOP Meter ITC.101.R1 2/6/2023 Detector ITC.102.R2 2/6/2023

Meter Manufacturer: Ludlum Model Number: 2221r Serial Number: 117357

Detector Manufacturer: Ludlum Model Number: 44-10 Serial Number: PR154615

Barometric Pressure: 24.54 inches Hg Temperature: 76 °F Relative Humidity: 20 %

Pulser: Ludlum 500-1 sn 347243 Multimeter: n/a Calibration Cable Length: ☑ 39-inch ☐ 60-inch ☐ Other:

☑ Mechanical Check ☑ Battery Check HV Check:
☑ Audio Check ☑ THR/WIN Operation ☑ 500 V
☑ Meter Zero Check ☑ F/S Response Check ☑ 1000 V
☑ Meter Reset Check ☑ Geotropism ☑ 1500 V

Comments or Compliance Statement(s):

Additional Comments:

Meter Firmware Version: 26102 - 13

Calibrated with Window in OUT mode: ☑

Set Voltage: 650 V Set Threshold: 10 mV Window:

Instrument Within Tolerance (+/- 10% on THR/WIN values and Meter Reading counts, and +/-2.5% on HV values): ☑ Yes ☐ No

Source Distance: ☐ Contact ☑ 6 inches ☐ Other:
Source Geometry: ☑ Side ☐ Below ☐ Other:

Range/Multiplier	Reference Setting	"As Found Reading"	Meter Reading	Integrated 1-Min. Count	Log Scale Count
x 1000	400	400	400	399891	400
x 1000	100	100	100		100
x 100	400	400	400	39988	400
x 100	100	100	100		100
x 10	400	400	400	4000	400
x 10	100	100	100		100
x 1	400	400	400	400	400
x 1	100	100	100		100

Note: In case of repair, "As Found Reading" contains the pre-repair measurements and the "Meter Reading" contains the post-repair measurements.

Notes: Multimeter uncertainty within 1.1% of reading (volts, amps). Count rate uncertainty is within 3% of reading. Measurement results represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2. The calibration results presented on this ERG Calibration Certificate relate only to the items calibrated by ERG. ERG certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology (NIST) or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI N323A-1997 and ISO/IEC 17025:2017.
DECISION RULE: Measurements from the meter, adjusted for the measurement uncertainty, must be within tolerance limits as stated in the Comments or Compliance Statement section. Otherwise the calibration is rejected.

This certificate cannot be reproduced except in full, without the written approval of Environmental Restoration Group, Inc.

Environmental Restoration Group, Inc.
8809 Washington St NE, Suite #150
Albuquerque, NM 87113
(505) 298-4224
www.ERGoffice.com

Certificate of Calibration

Voltage Plateau

Customer: Environmental Restoration Group, Inc. *See address above.* Calibration Report No.: 5268

Voltage Plateau performed in accordance with ERG SOP Meter ITC.101.R1 2/6/2023 Detector: ITC.102.R2 2/6/2023

Meter Manufacturer: Ludlum Model Number: 2221r Serial Number: 117357

Detector Manufacturer: Ludlum Model Number: 44-10 Serial Number: PR154615

Voltage Plateau Calibration Cable Length: ☑ 39-inch ☐ 60-inch ☐ Other:

Threshold: 10 mV Window:

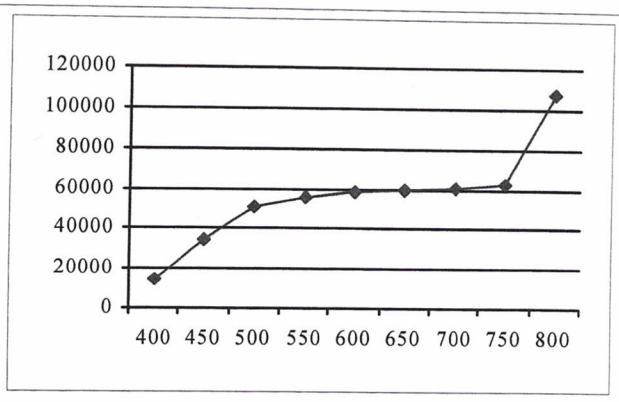
Source Distance: ☐ Contact ☑ 6 inches ☐ Other:

Source Geometry: ☑ Side ☐ Below ☐ Other:

Count Time (min): 1.0

High Voltage	Source Counts	Background Counts	Net Counts
400	14282	924	13358
450	34373	3085	31288
500	50609	7051	43558
550	55497	8855	46642
600	58782	8973	49809
650	59791	9051	50740
700	60322	9271	51051
750	62661	9824	52837
800	107677	12414	95263

Voltage Plateau



Recommended HV: 650 V

Source 1: Cs-137 sn:4097-03 5.2µCi (1/4/12) button Total Efficiency: n/a 4π Efficiency: n/a

Source 2: Total Efficiency: n/a 4π Efficiency: n/a

NOTE: The total efficiency provided is calculated per ISO-7503/NUREG 1575 (MARSSIM): Total Efficiency = Instrument Efficiency × Source Efficiency; where Instrument Efficiency is calculated as net counts ÷ source 2π emission rate. The 4π efficiency is calculated as net counts ÷ source 4π activity. The provided efficiencies are radionuclide specific and are calculated using source counts and background counts at the recommended operating HV. The provided efficiencies are for general information purposes only and are not intended to replace user efficiency calculation method or results.

Calibrated By: _____ Calibration Date: 7/2/24 Calibration Due: 7/2/25

Reviewed By: _____ Date: 7/2/2024

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PSH, LLC Instrumentation DAILY QC Data Sheet_BACKGROUND

Inst.# 117357/PR154615		
QC Daily Background		
Date	Result (cpm)	P/F
7/8/2024	4580	Pass
7/9/2024	4610	Pass

Inst.# 117357/PR154615		Source Ser. #	BKG
Initial Background Readings		Nuclide	N/A
Date	Result (cpm)		
7/8/2024	4579		
7/8/2024	4516		
7/8/2024	4548		
7/8/2024	4613		
7/8/2024	4602		
7/8/2024	4589		
7/8/2024	4572		
7/8/2024	4625		
7/8/2024	4569		
7/8/2024	4571		
	Average		
	4578		

PSH, LLC Instrumentation DAILY QC Data Sheet_SOURCE

Inst.# 117357/PR154615		
QC Daily Source		
Date	Result (cpm)	P/F
7/8/2024	157213	Pass
7/9/2024	156989	Pass

Inst.# 117357/PR154615		Source Ser. #	333-94
Initial Source Readings		Nuclide	Cs-137
Date	Result (cpm)		
7/8/2024	157563		
7/8/2024	157587		
7/8/2024	157913		
7/8/2024	156221		
7/8/2024	153098		
7/8/2024	156231		
7/8/2024	154982		
7/8/2024	157555		
7/8/2024	156789		
7/8/2024	157021		
	Average		
	156496		

Attachment 4
Spoils Stockpile Photos

Photo #1 – South Side of Pile

Photo #2 – North Side of Pile

Attachment 5
Spoils Stockpile Photos (continued)

Photo #3 – West Side of Pile

Photo #4 – East Side of Pile

Attachment 6
Pace Lab Chain of Custody

Company Name/Address:
PSH, LLC
633 Buckingham Street
Oakville, CT 06779

Billing Information:
PSH, LLC
633 Buckingham Street
Oakville, CT 06779

Pres Chk

Report to: **Pat Horkman**

Email To: **pathorkman@netscape.net**

Project Description: TESLA Spoils Stockpile

City/State Collected: **Buffalo, NY**

Please Circle: PT MT CT ET

Phone: **860-324-6599**

Client Project # **TRC-2024-001**

Lab Project #

Collected by (print): **Pat Horkman**

Site/Facility ID # **N/A**

P.O. # **TBD**

Collected by (signature):

Immediately Packed on Ice N ___X___ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	GSPEC RA21 Days - bag (901.1M)	Remarks	Sample # (lab only)
TRC-2024-001	**Comp**	**SS**	**0-18"**	**7/9/24**	**9:30 am**	**1**	X	**WC-1**	
TRC-2024-002	**Comp**	**SS**	**0-18"**	**7/9/24**	**9:45 am**	**1**	X	**WC-2**	
TRC-2024-003	**Comp**	**SS**	**0-18"**	**7/9/24**	**10:00 am**	**1**	X	**WC-3**	
TRC-2024-004	**Comp**	**SS**	**0-18"**	**7/9/24**	**10:15 am**	**1**	X	**WC-4**	

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG #

Table #

Acctnum: **PSHLLCOCT**

Template:

Prelogin:

PM: **732 - Donna Eidson**

PB:

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Patrick Horkman	7/11/2024	12:00 pm		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

APPENDIX E

SITE PHOTO LOG
(SEE ALSO APPENDIX D)

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
1	04/29/25

Direction Photo Taken:
North

Description:
Area I, eastside of Tesla building.

Photo No.	Date
2	04/29/25

Direction Photo Taken:
South

Description:
Area I eastside of Tesla building.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
3	04/29/25

Direction Photo Taken:
North

Description:
Area I, ASD system roof vents top of Tesla Building.

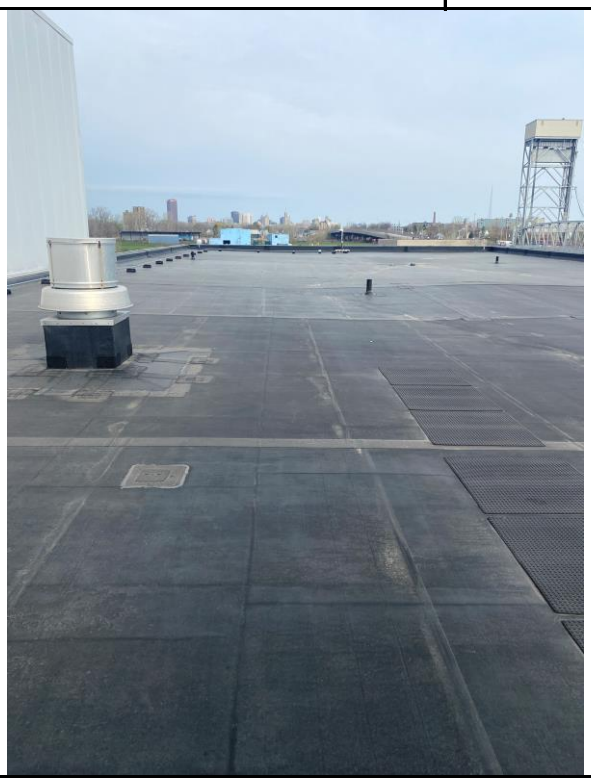


Photo No.	Date
4	04/29/25

Direction Photo Taken:
North

Description:
Area I, ASD system roof vents top of Tesla Building.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
5	04/29/25

Direction Photo Taken:
North

Description:
Area I, ASD system roof vents top of Tesla Building.

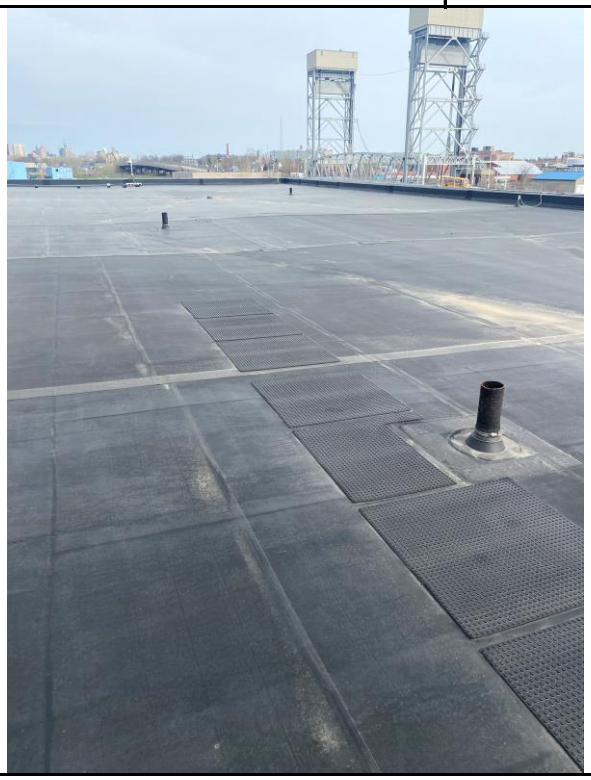


Photo No.	Date
6	04/29/25

Direction Photo Taken:
North

Description:
Area I, ASD system roof vents top of Tesla Building.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
7	04/29/25

Direction Photo Taken:
South

Description:
Area I, Bus Shelter Construction

Photo No.	Date
8	04/29/25

Direction Photo Taken:
North

Description:
Area I, Grass/ Parking Lot

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
9	04/29/25

Direction Photo Taken:
South

Description:
Area I, East Gate Swale Construction with cover soils. Swale constructed in 2024.

Photo No.	Date
10	04/29/25

Direction Photo Taken:
West

Description:
Norfolk Southern Parcel, East Parking Lot .

Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
11	04/29/25

Direction Photo Taken:
South

Description:
Norfolk Southern Parcel, East Parking Lot .

Photo No.	Date
12	04/29/25

Direction Photo Taken:
East

Description:
Norfolk Southern Parcel & Area I, Stormwater Retention Basin as part of East Parking Lot Expansion in 2024.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
13	04/29/25

Direction Photo Taken:
Northeast

Description:
Area-1 East Parking Lot & Lot 9 Sidewalk Installed in 2024.

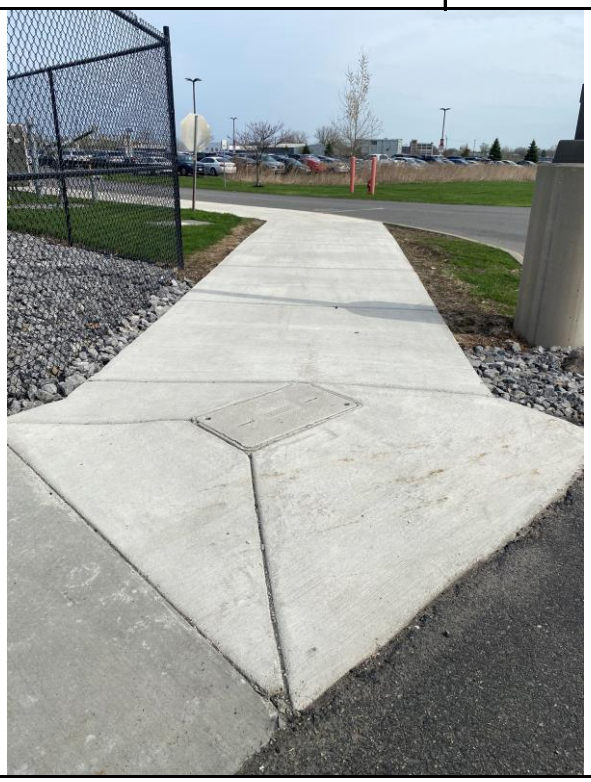


Photo No.	Date
14	04/29/25

Direction Photo Taken:
West

Description:
Installation of LED Sign.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
15	04/29/25

Direction Photo Taken:
East

Description:
LED sign conduit trench with cover soil prior to seeding.

Photo No.	Date
16	04/29/25

Direction Photo Taken:
Northwest

Description:
Area I- Fiber Optic Cable South.

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
17	04/29/25

Direction Photo Taken:
North

Description:
West side of Tesla Facility

Photo No.	Date
18	04/29/25

Direction Photo Taken:
South

Description:
North side of Tesla Facility

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
19	04/29/25

Direction Photo Taken:
North

Description:
Area I- Perimeter fence installation.

Photo No.	Date
20	04/29/25

Direction Photo Taken:
South

Description:
Area I- Perimeter fence installation.

Prepared By: RLD

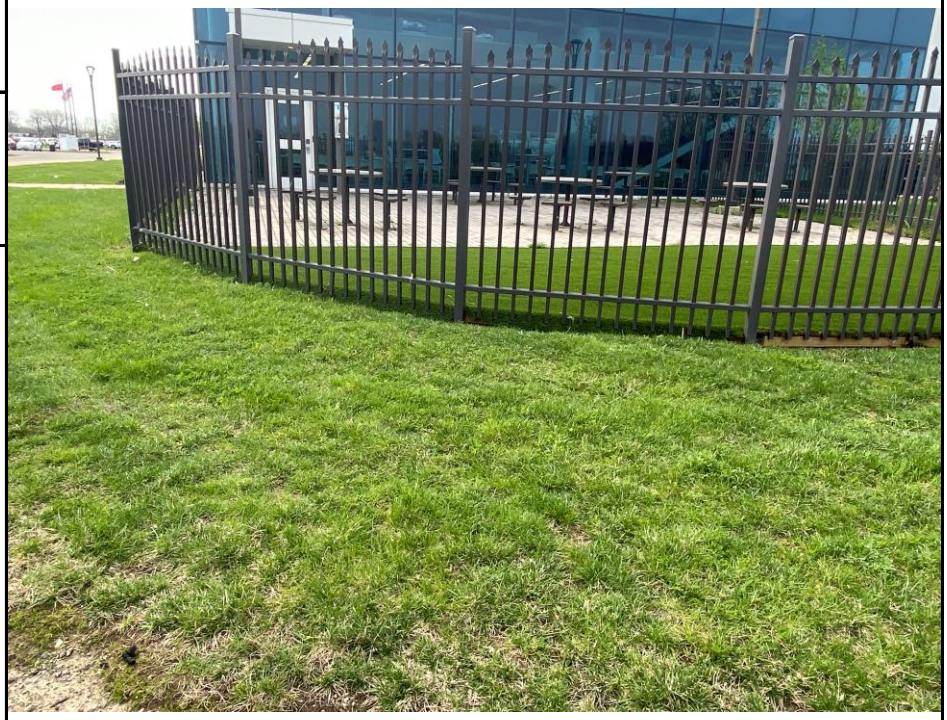
PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
21	04/29/25

Direction Photo Taken:
West

Description:
Area I- Courtyard Area



Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
22	04/29/25

Direction Photo Taken:
East

Description:
Area II- Containment Cell .

Photo No.	Date
23	04/29/25

Direction Photo Taken:
West

Description:
Area II- Containment Cell .

Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
24	04/29/25

Direction Photo Taken:
North

Description:
Area II- Groundwater Pre-Treatment System Building .

Photo No.	Date
25	04/29/25

Direction Photo Taken:
North

Description:
Area II- Groundwater Treatment System Building .

Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
26	04/29/25

Direction Photo Taken:
North

Description:
Area II- Groundwater Pre-Treatment System Building Upgraded Control Panel Display

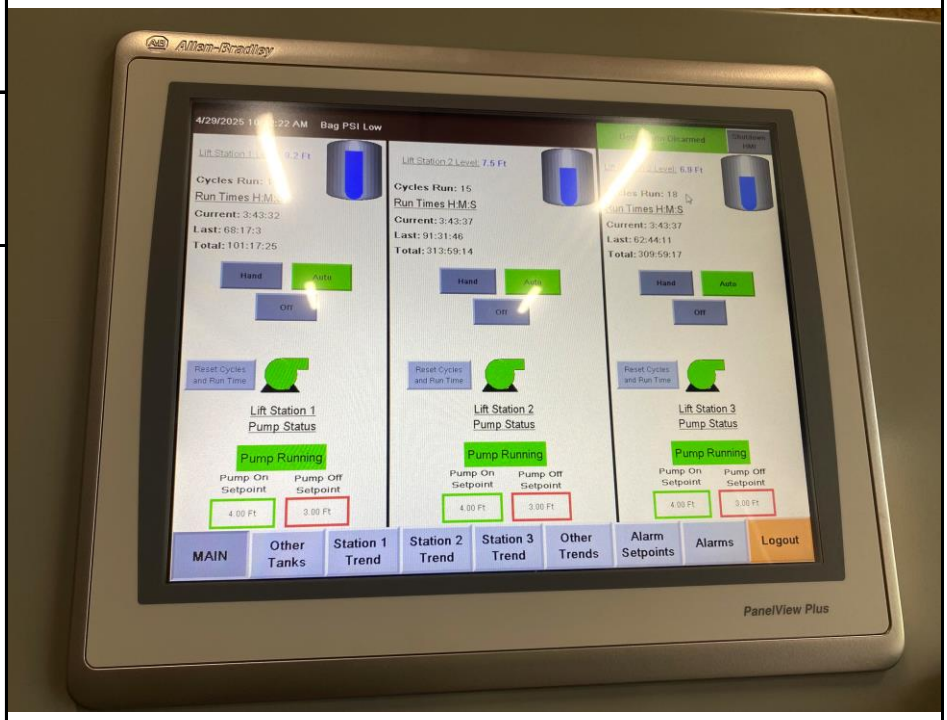
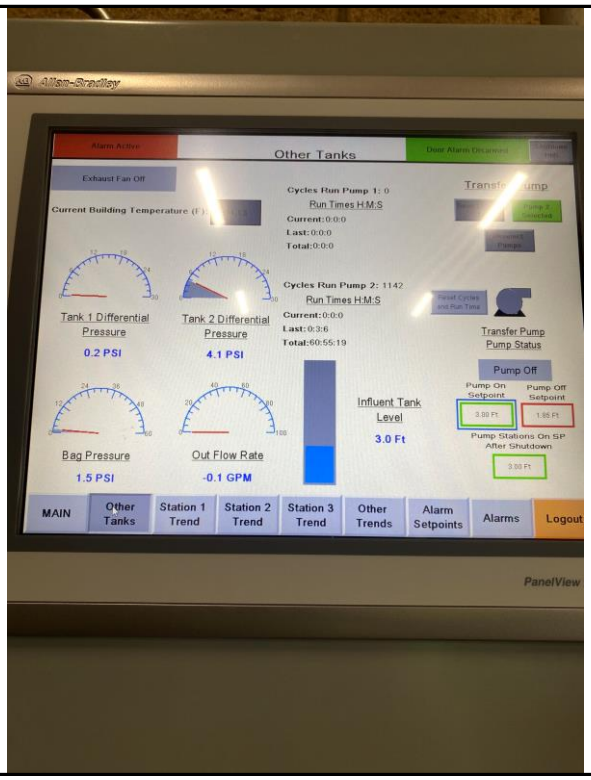


Photo No.	Date
27	04/29/25

Direction Photo Taken:
North

Description:
Area II- Groundwater Pre-Treatment System Building Upgraded Control Panel Display



Prepared By: RLD

ROUX

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
28	04/29/25

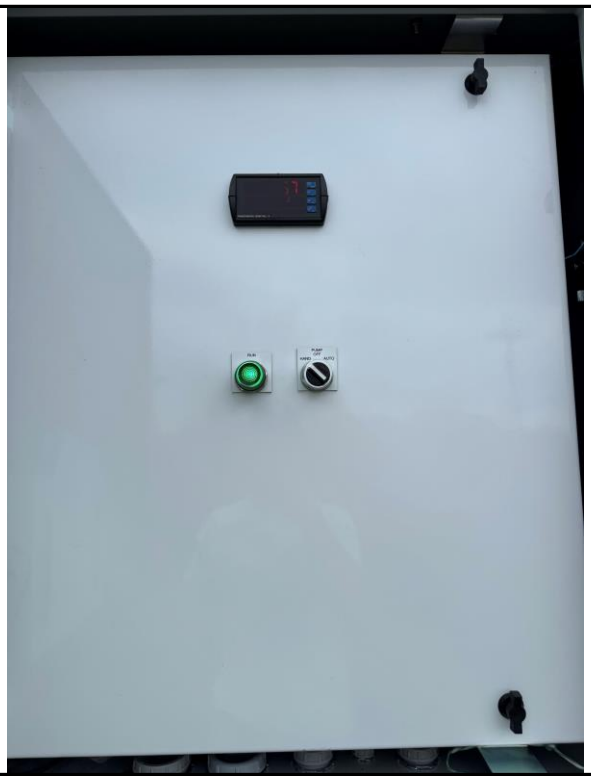
Direction Photo Taken:
North

Description:
Area II- Upgraded Control Panel at Pump Stations

Photo No.	Date
29	04/29/25

Direction Photo Taken:
North

Description:
Area II- Upgraded Control Panel at Pump Stations



Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
30	04/29/25

Direction Photo Taken:
South

Description:
Area III

Photo No.	Date
31	04/29/25

Direction Photo Taken:
South

Description:
Area III

Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Fort Schuyler Management Corp	Steelfields (aka Riverbend) Site No. V00619	4334.00001B000

Photo No.	Date
32	04/29/25

Direction Photo Taken:
South

Description:
Area III

Photo No.	Date
33	04/29/25

Direction Photo Taken:
South

Description:
Area III

Prepared By: RLD