CORRECTIVE MEASURES WORK PLAN

June 23, 2026

MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York
Site #C915314

Prepared For:
MOD-PAC CORP

Prepared By:

MATRIX
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TABLE OF CONTENTS

FIGURES

TABLES

CHARTS

APPENDICES

ABBREVIATIONS AND ACRONYMS

AA	Alternatives Analysis
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BGS	Below ground surface
CAMP	Community Air Monitoring Plan
CMWP	Corrective Measures Work Plan
DCE	Dichloroethene
DNAPL	Dense non-aqueous phase liquid
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EC	Engineering Control
FER	Final Engineering Report
HASP	Health and Safety Plan
IC	Institutional Control
ID	Inner Diameter
ISCO	*In situ* chemical oxidation
LCS	Laboratory control sample
METI	Matrix Environmental Technologies Inc.
MNA	Monitored Natural Attenuation
MPC	MOD-PAC CORP
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NYCRR	6 New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxidation-Reduction Potential
OVM	Organic Vapor Meter
PCE	Tetrachloroethylene
PID	Photoionization Detector
PVC	Polyvinyl chloride
QC	Quality Control
RAWP	Remedial Action Work Plan
RAO	Remedial Action Objective
RI	Remedial Investigation
ROI	Radius of Influence
RPD	Relative Percent Difference
SCG	Standards, criteria and guidance
SSD	Sub-Slab Depressurization
TIC	Tentatively Identified Compound
TCE	Trichloroethylene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
UIC	Underground Injection Control
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOC	Volatile Organic Compound

1.0 INTRODUCTION

This Corrective Measures Work Plan (CMWP) has been prepared by Matrix Environmental Technologies Inc. (METI) on behalf of MOD-PAC CORP. (MPC) for 1801 Elmwood Avenue, City of Buffalo, Erie County, New York (Site). Work is being completed under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Brownfield Cleanup Agreement (BCA) #C915314-06-17 was executed on June 17, 2017.

Remaining groundwater contamination in the vicinity of MW-3 is addressed by the remedy proposed in this CMWP. The proposed remedy is intended to result in the attainment of remedial action objectives (RAOs) and take into consideration the applicable standards, criteria, and guidance (SCG) identified in the Remedial Investigation/Alternatives Analysis (RI/AA) Report.

1.1 Site Description and Use

The Site is currently utilized for manufacturing and printing of folding cartons and recreational purposes in a heavily developed mixed-use area in the City of Buffalo, Erie County, New York. The BCP Site includes two parcels totaling approximately 19.727 acres of land: SBL #78.69-2-3.11 addressed as 1801 Elmwood Avenue and SBL #78.69-2-3-12 addressed as 1735 Elmwood Avenue. On-site structures include a 500,000-square foot manufacturing facility (1801 Elmwood Ave) and a 200,000-square foot outdoor athletic complex (1735 Elmwood Ave). The BCP Site is bordered by commercial buildings to the north and east, a rail line to the south, and Elmwood Avenue to the west. Single and multi-family residences and apartments also border the Site to the north. The location of the Site and is shown on **Figure 1**. A current site plan is included as **Figure 2**.

1.2 Site History

The Site was originally developed in the early 1900s by American Radiator. The former buildings within the southern portion of the Site were utilized by American Radiator until the 1950s, at which time the buildings were demolished. American Radiator occupied the remaining on-site buildings until the 1970s. Since the 1950s, the Site has been used for various manufacturing purposes, including warehousing and box and product packaging by Armor Box and by the current occupant, MPC, which also performs commercial printing. MPC has occupied a portion of the existing building since the 1950s and has since expanded and currently occupies the entire facility.

From the 1950s through 2020, the southern portion of the BCP Site remained vacant, unoccupied land with overgrown vegetation and some limited areas used for parking. In early 2020, turf athletic fields to be used by Nardin Academy were constructed in the southern portion of the BCP Site and are currently utilized as such. In 2020, the athletic field and surrounding support structures were transferred by deed to Nardin Community Athletic Complex, LLC.

1.3 Physical Setting

1.3.1 Geology

The Site is relatively flat in nature and underlain with approximately 2 to 16 feet of urban fill which consists of an intermixture of sand, concrete, brick, slag, fly ash, metal, railroad siding, and asphalt. Beneath the fill layer is native silt and clay which extended to a maximum depth drilled of 24 feet.

1.3.2 Hydrogeology

The depth to groundwater ranges from 2 to 9 feet below ground surface (bgs) throughout the Site. Groundwater flow appeared to be in a generally southwesterly direction, although there were areas where groundwater flow was in a northerly direction. Flow direction is not necessarily consistent throughout the whole Site. Groundwater appears to be perched within the fill material at different points. Groundwater at and in the vicinity of the Site is not known to be used for public drinking water supply, and the City of Buffalo has a prohibition on utilizing groundwater for drinking water.

1.4 Remedial Activities

Multiple Interim Remedial Measures (IRMs) were performed at this Site from 2017 through 2019, resulting in a Certificate of Completion (COC) issued for the Site on December 24, 2019. Full details of the IRMs completed at the Site and remaining soil/fill contamination can be found in the Remedial Investigation/Alternatives Analysis Report (RI/AAR), Interim Remedial Measure Project Summary for Hot Spot Removal Report, Project Summary for Interior Construction Activities Report, Final Engineering Report (FER), and Site Management Plan (SMP). This CMWP will solely focus on groundwater remediation.

1.4.1 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Groundwater Remedial Action Objectives (RAOs) were identified for this Site.

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels. exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

1.4.2 Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Document dated July 26, 2019. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

Injection of permanganate for *in situ* chemical oxidation (ISCO) was implemented in the area of monitoring well MW-3, which exhibited chlorinated volatile organic compounds (cVOCs) impacts to

groundwater. The remedy consisted of a pilot study to evaluate the efficacy of ISCO and the ability of the formation to accept the potassium permanganate solution. A subsequent full-scale ISCO treatment included the injection of 8,230 pounds of potassium permanganate into 56 locations over a 13,000 square foot treatment area completed in October 2019.

1.5 Criteria for the Completion of Remediation

The criteria for the completion of remediation as defined in the SMP includes the following:

- Groundwater monitoring activities will continue to include at least two additional annual monitoring events. The results will be shared with NYSDEC with consultation with New York State Department of Health (NYSDOH). After the completion of two events, if 50% reduction of trichloroethene (TCE) concentration in groundwater is not reached then additional sampling on an annual basis at a minimum will be necessary until that occurs.
- Monitoring will continue until permission to discontinue is granted in writing by NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

2.0 SUMMARY OF PREVIOUS REMEDIATION AND GROUNDWATER MONITORING

The SMP requires annual sampling and analysis of the groundwater at monitoring wells MW-3, MW-11, MW-12, and MW-13 to evaluate the effectiveness of the completed ISCO remedy for the Site. To this regard, annual groundwater samples were collected from April 2020 through April 2026 and analyzed for volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260 target compound list (TCL). Concentrations of one or more chlorinated VOCs exceeded Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards (AWQS) in MW-3, MW-11, and MW-13 during all seven sampling events.

The SMP-defined goal of a 50% reduction of TCE concentrations after the initial two consecutive [annual] groundwater sampling events was not achieved. Therefore, it was recommended in the 2019-2021 Periodic Review Report (PRR) that quarterly groundwater samples be collected to assess if any seasonal variations in contaminant levels exist. This sampling regimen was a voluntary effort in addition to what was outlined in the SMP. Quarterly sampling was completed from July 2021 until October 2024. In the 2023-2024 PRR, it was recommended that the frequency of groundwater monitoring return to an annual basis for MW-11, MW-12, and MW-13 and a semi-annual basis for MW-3. Historical TCE concentrations by location are illustrated on **Figure 3**.

2.1 Previous ISCO

On June 27-28, 2019, an injection pilot test was completed by METI and C&S Engineers, Inc. (C&S) in the vicinity of monitoring well MW-3. A total of 882 pounds of potassium permanganate was injected through 1.5-inch injection rods penetrated into the subsurface with a Geoprobe®. Each of the six (6) injection borings received 290 gallons of a 4 percent weight (wt%) permanganate solution

injected between 5 and 10 feet below grade with no surfacing or daylighting observed. Injection pressures were less than 5 psi. Based on the results of the pilot test, the radius of influence for injection was estimated at approximately 20 feet. Therefore, 15-foot spacing between injection borings was selected as the basis for design for a full-scale injection.

The first full-scale injection was completed on October 2-9, 2019. With a 13,000-square foot treatment area and 15-foot spacing between borings, 8,230 pounds of potassium permanganate was injected into 56 borings as a 4 wt% solution. A total of 24,080 gallons of solution were injected into the subsurface, with each injection boring receiving 430 gallons of solution divided into two injection intervals within the 5-foot target thickness from 5 to 10 feet below grade. The same injection methodology used in the pilot test was used for full-scale injection, with injection performed through 1.5-inch injection rods penetrated into the subsurface with a Geoprobe®. Injection locations from the first injection event are shown in **Figure 4,** attached.

2.2 Temporary Well Installation

On April 10, 2026, METI completed the installation of four 1-inch temporary wells on the exterior of the MPC facility in the immediate vicinity of MW-3 to support the remedial design for a second ISCO application. The wells were installed via direct-push technology with a Geoprobe 7822 DT drill rig to a completion depth of 16 feet bgs. Temporary wells were installed with a 10-foot section of 0.10-inch slotted PVC well screen from the bottom of the well at approximately 16 feet bgs to 6 feet bgs with approximately 5.5 feet of 1-inch PVC riser to approximately 0.5 feet bgs. The wells were backfilled from completion depth to approximately 4 feet bgs with #00 size sand and finished to 0.5 feet bgs with hydrated bentonite. Each well was sealed with a 1-inch well plug. Well construction diagrams are included in **Appendix A.**

2.3 Groundwater Contaminant Trends

Initially, concentrations of TCE and its breakdown products (dichloroethene and vinyl chloride) decreased significantly post-ISCO in the four wells subject to the remedial program. While TCE concentrations remain lower than pre-remediation levels with some fluctuations, the goal of a 50% reduction in TCE is not met consistently in MW-3. The results of the most recent sampling events indicate that when compared to February 2018 pre-remedy levels, average TCE concentrations over the 2025-2026 reporting period at the MW-3 location (most impacted well[1]) have decreased by 41%. The other three groundwater wells subject to the remedial program have exhibited consistent decreasing trends. Compared to baseline levels, TCE concentrations at MW-11 over the 2025-2026 reporting period have decreased by 47.5% and are consistently low (less than 50 µg/L). TCE concentrations at MW-13 have decreased by 95%. TCE concentrations at MW-12 have always been below AWQS criteria, and most times below laboratory detection limits. Therefore, the remedial goal of 50% reduction in TCE has been consistently achieved at the MW-12 and MW-13 locations and has been achieved at the MW-11 location on numerous occasions.

Groundwater VOC results and the change in TCE post-remedy are summarized in **Table 1.** The results indicate that the groundwater VOC plume has shrunk and appears to be stable; there is no

[1] Prior to the IRM, the maximum concentration of TCE detected in the groundwater was recorded at 280 ppb in the area surrounding MW-3 (2/5/18 sample).

evidence of vertical migration into bedrock or off-Site migration. **Chart 1** and **Chart 2** illustrate total cVOC trends and TCE trends for the four wells subject to the remedial program, and **Chart 3** through **Chart 6** illustrate well-specific trends of TCE and its breakdown components cis-1,2 dichloroethene, vinyl chloride and trans-1,2 dichloroethene, respectively.

The baseline sampling event for the newly constructed temporary wells designated as MW-16 through MW-19 was completed on April 15, 2026 during the annual sampling event for MW-3, MW-11, MW-12, and MW-13 utilizing low flow sampling technology. VOC results from the 2026 sampling event are summarized in **Table 2.**

2.4 Current Groundwater Plume

The groundwater plume is well defined with a two order of magnitude range in VOC concentrations and numerous non-detect samples. As of April 2026, the 5 µg/L AWQS for TCE is currently exceeded in MW-3, MW-11, MW-13, MW-18, and MW-19. The most elevated concentrations of the three target compounds were detected in MW-3 and MW-18. Groundwater VOCs were non-detect or below AWQS in MW-12, MW-16, and MW-17.

The original extents of the TCE plume included the source area in the vicinity of MW-3 within the urban fill layer located below the asphalt surface to depths ranging from 7.5 to 13 feet below grade. A confining clay layer is found at depths ranging from 7.5 - 13 feet below grade in this area. It is likely that historically, the source area also extended to the west towards MW-11. Baseline data from February 2018 indicates that the percentage of vinyl chloride on a molar basis was significantly higher in MW-11 (21%) than MW-3 (6.6%), suggesting more advanced but incomplete degradation in the vicinity of MW-11. According to biodegradation (Monod) kinetics, a higher initial substrate concentration is associated with a higher degradation rate constant; although overall contaminant concentrations are currently lower at MW-11 than MW-3, it is likely that contaminant mass in the area north west of MW-3 has declined significantly over time due to anaerobic biodegradation and previous ISCO injections. The footprint of the plume has shrunk since 2019; the limits of the current TCE plume are illustrated in **Figure 5**.

3.0 PROPOSED REMEDY

ISCO is the recommended remedial measure to meet the Remedial Action Objectives and the criteria for the completion of remediation as described below. The entire groundwater plume will be addressed with active remediation.

3.1 Pre-Remediation Tasks and Site Preparation

The Health and Safety Plan (HASP) included in the revised SMP as Appendix F will be adhered to during all field activities. METI will be responsible for the health and safety of its authorized Site workers. It is not anticipated that subcontractors will be utilized for this scope of work.

Prior to beginning any intrusive activities, the locations of underground utilities will be marked by UDig NY. In addition, a utility locate survey will be completed by METI. Prior to injection, EPA

Form 7520-16 will be submitted to USEPA Region 2 Underground Injection Control (UIC) for review.

Where applicable, the procedures detailed in Appendix D (Excavation Work Plan) and Appendix I (Quality Assurance Project Plan) of the revised SMP addressing air monitoring, waste management, equipment and personnel decontamination, and disposal of contaminated materials will be followed during implementation of the proposed remedy. It is anticipated that groundwater and augur cuttings will be managed as solid wastes. Temporary fencing and/or construction cones will restrict access to authorized Site workers during remedial activities. A Community Air Monitoring Plan (CAMP) will be implemented during installation of the injection points.

3.2 Proposed *In Situ* Chemical Oxidation (ISCO)

The groundwater plume will be remediated using ISCO, which is effective at degrading soluble phase chlorinated VOCs, including TCE and vinyl chloride.

3.2.1 Background and Applicability

Major factors that will determine the effectiveness of the ISCO application include reaction kinetics, which are influenced by several variables including pH, contaminant concentrations, catalysts, reaction byproducts, natural organic matter and oxidant scavengers, and delivery technique. The selected oxidant, potassium permanganate, is a strong oxidizing agent that is applicable under a wide range of environmental conditions and tends to persist in the subsurface, allowing for more contaminant contact and for both advection and diffusion processes to contribute to its distribution in the subsurface.

Strongly reducing conditions generally exert higher oxidant demand, increasing the design oxidant dosing. Groundwater quality data collected during the April 2026 sampling event and included as Appendix C of the 2025-2026 PRR indicates that subsurface conditions within the treatment area are favorable for ISCO, ranging from slightly reducing to slightly oxidative with neutral pH:

Table 3.1. Groundwater Quality Data Summary

Sample Location	ORP (mV)	pH (SU)
MW-3	34.0 – 187.4	7.06 – 7.34
MW-11	(-53.1) – 15.1	6.78 – 7.08
MW-12	(-135.0) – (-99.0)	6.95 – 7.27
MW-13	(-47.1) – 176.9	6.72 – 7.69
MW-16	(-69.1) – (-2.0)	7.09 – 7.41
MW-17	(-122.1) – (-57.0)	7.19 – 7.50
MW-18	(-99.6) – (-18.1)	7.45 – 7.62
MW-19	(-92.9) – (39.0)	7.02 – 7.84

ISCO applications can alter subsurface geochemistry, resulting in the mobilization of metals from the soil matrix. However, metals mobilization primarily occurs within the treatment zone with concentrations tending to attenuate over time. Total metals concentrations in soil/fill at the Site are elevated, with arsenic, cadmium, chromium, copper, lead, and manganese exceeding Unrestricted Use

Soil Cleanup Objectives (UUSCOs). Only arsenic was detected in the source area at a concentration above the Industrial Use SCO (IUSCO) as shown in Table 7 of the RI/AA Report. However, post-injection monitoring for metals completed in 2019 indicated that concentrations of these metals in groundwater, including arsenic, remained relatively low. Concentrations of manganese exceeded the AWQS of 300 μg/L, which was expected as manganese is a component of potassium permanganate. To evaluate the potential for metals mobilization, groundwater samples will be collected from select monitoring wells prior to the proposed injection, one-month post-injection, and four-months post-injection and will be submitted for laboratory analysis of TAL dissolved metals using EPA Method 6010.

3.2.2 Injection Design

Based on a target treatment area of 5,605 square feet and 5-foot injection interval, a total of 4,200 pounds of potassium permanganate will be injected laterally at discrete depths into the subsurface via 28 injection points installed within the ISCO treatment area as shown in **Figure 5**. Three injection points are located in the vicinity of MW-11, where minor daylighting and surfacing was observed in IP1, IP2, and IP6 during the injection in 2019, potentially due to the presence of preferential flow pathways. The injection rate and pressure will be reduced in these injection points compared to the 25 injection points in the vicinity of MW-3 and MW-13.

Each injection point will receive 480 gallons of a 3.6% solution divided into three discrete intervals at 5, 8, and 10 feet below grade. The total injection volume represents approximately 33% of the pore volume in the treatment area, which is appropriate for repeat injections. The pore volume within the treatment area is estimated and may be lower as the flow of oxidant will likely follow high conductivity pathways within the urban fill. Background oxidant demand for the proposed injection is also assumed to be slightly lower due to the destruction of organic matter during previous injections. However, oxidant demand from the soil matrix significantly exceeds contaminant demand. Therefore, a more dilute solution and higher injection volume per point is proposed for a second injection to enhance dispersion of oxidant in the subsurface.

3.2.3 Injection Methods

Permanganate injections will be completed through direct-push batch injections using a Geoprobe® and injection tooling to disperse the oxidant laterally into the formation. Direct push allows for injection points to be offset from one injection event to the next and for adjustments to injection locations based on observations in the field during the initial application. Direct push is appropriate given the relatively shallow extent of the contamination. Injection will be completed at discrete intervals using the "bottom-up" method.

The following injection parameters will be tracked and recorded at regular intervals during the injection:

- Injection pressure
- Injection flow rate
- Injectate volume/concentration

Health and safety measures will be undertaken per the HASP during injection. Engineering controls and appropriate PPE will be employed, particularly during handling and mixing of oxidants.

Groundwater samples will be collected from the four permanent monitoring wells within the target treatment zone prior to injection and one, four-, and ten-months post-injection in conjunction with the annual and semi-annual monitoring events required by the SMP. During the annual groundwater sampling event completed in April 2025, a sample collected from MW-3 was also analyzed for Target Analyte List (TAL) Metals to characterize baseline metals concentrations prior to injection. Additional monitoring events may be completed if necessary or if useful for design of a follow-up injection. Samples will be submitted for laboratory analysis as follows:

Table 3.2. ISCO Monitoring Parameters

Parameter(s)	Method	Baseline	During Injection	Post-Injection
Color	N/A (Field)	X	X	X
pH	N/A (Field)	X	X	X
ORP	N/A (Field)	X	X	X
Specific Conductivity	N/A (Field)	X	X	X
TCL VOCs	8260	a		X
Chloride	300.0	X		X
Metals	6010C, 6020B, 7196A, 7470A	b		X

a Data collected during April 2026 is considered indicative of baseline conditions.
b Data collected during April 2025 is considered indicative of baseline conditions.

The four temporary wells will also be monitored for field parameters during the injection. A field sheet template is included as **Appendix B.**

3.2.4 Milestones, Metrics, and Endpoints

Sufficient distribution of permanganate throughout the target treatment area is considered the target endpoint for the first injection. Color change and/or a permanganate concentration of 150 mg/L or greater in MW-3, MW-11, and MW-13 will demonstrate sufficient distribution in the subsurface.

A third injection event is not anticipated but may be required to meet the criteria described in Section 1.5. Multiple applications are preferred over single large applications as they allow for adequate time for passive diffusion of oxidant into the aquifer matrix and for the collection of post-injection monitoring data that can be used to refine the target area and oxidant dosing. The required number of injections will not exceed three events to achieve the maximum practical extent of contaminant reduction. The time required between injections is site-specific and will be informed by the post-injection monitoring data.

Following evaluation of the second injection event, the groundwater conditions will be monitored under the SMP.

3.3 Site Restoration

All areas of the Site that are disturbed during implementation of the remedial program will be restored to pre-remediation conditions with respect to topography and hydrology to the extent practical. Injection borings will be decommissioned by grouting in place with hydrated bentonite.

3.4 Groundwater Monitoring

A groundwater monitoring program utilizing the existing network of four monitoring wells will be implemented in order to assess the efficacy of all components of the remedial program in its entirety. Groundwater samples will be collected in MW-3, MW-11, MW-12, and MW-13 on a quarterly basis for the first year after the second ISCO injection event is completed. After the first year, monitoring may continue semi-annually in MW-3 only as required by the SMP. Following a 50% reduction of TCE for two years as defined in the SMP, monitoring of MW-3 may be discontinued with the approval of NYSDEC. After the first year, the remaining three monitoring wells will continue to be monitored annually as defined in the SMP until a 50% reduction of TCE has been achieved in all four monitoring wells for two consecutive years. Collection of quality assurance/quality control samples will be completed on a semi-annual basis in in conjunction with the annual and semi-annual monitoring events required by the SMP.

During each monitoring event, static groundwater levels will be measured at each of the monitoring wells. Groundwater samples will then be collected using low flow sampling techniques. The wells will be purged, and field measurements of pH, specific conductivity, temperature and turbidity will be recorded and monitored for stabilization prior to sampling. Purge water will be containerized in 55-gallon drums and profiled to a Part 360 permitted disposal facility for final disposition. If required, a "contained-in" determination will be obtained prior to disposal.

If insufficient groundwater is available, new dedicated disposable bailers may be used to collect the groundwater samples. Groundwater samples will be placed in pre-cleaned laboratory-provided sample bottles, labeled and preserved in accordance with USEPA SW-846 methodology, and transported under chain-of-custody to a NYSDOH Environmental Laboratory Approval Program (ELAP) certified analytical laboratory. The samples will be analyzed for Target Compound List (TCL) VOCs by EPA Method 8260. A field sheet template is included in **Appendix B**.

At the conclusion of the groundwater monitoring program and with NYSDEC approval, the monitoring wells will be decommissioned in accordance with CP-43: *Commissioner's Policy on Groundwater Monitoring Well Decommissioning*. Well decommissioning records will be provided to NYSDEC.

3.5 Applicable Criteria

The following SCG will be utilized:

- 6 NYCRR Part 375-3 Brownfield Cleanup Program dated December 14, 2006, amended December 31, 2025.

- NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) document "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" dated June 1998, amended January 1999 Errata Sheet, April 2000 Addendum and June 2004 Addendum.

Sample analytical results are compared to Ambient Water Quality Standards (AWQS) for the following chlorinated VOCs:

- trichloroethene (TCE),
- cis-1,2-dichloroethene (cis-1,2-DCE), and
- vinyl chloride.

4.0 DOCUMENTATION AND REPORTING

Documentation of remedial activities will be presented in the annual PRR in accordance with DER-10 and submitted to NYSDEC in electronic format. Documentation of post-ISCO groundwater monitoring will be presented in the annual PRR reports until groundwater monitoring is discontinued.

4.1 Field Oversight/Construction Monitoring

Daily reports during remedial activities will include the following information where applicable:

- Weather and Site conditions;
- Sampling locations and sample designations;
- Photodocumentation;
- Injection locations and depths;
- Injection data (pressures, flow rates, volume/concentration);
- Groundwater quality data;
- Any deviations from the proposed scope of work (to be promptly communicated to NYSDEC).

Daily reports will be submitted to the NYSDEC project manager via email during active remedial action. A summary of the daily reports and CAMP data collected during remedial activities will be included with the annual PRR. A template of the daily field report form is included in **Appendix B**.

4.2 Groundwater Monitoring Reports

A groundwater monitoring update summarizing the progress of the remedial actions will be submitted with the quarterly SSD Status Report on a semi-annual basis. The report will include tabulated data summaries, data summary figures and groundwater elevation contour map(s), and a discussion and interpretation of results.

5.0 PROJECT SCHEDULE

ISCO of the groundwater plume is expected to be completed during the second or third quarters of 2026 while the groundwater table is low. Monitoring will continue during the subsequent year. The SSD systems will continue to operate during this time.

6.0 REFERENCES

Brownfield Cleanup Agreement Index No. C915314-06-17

New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation*. May 2010.

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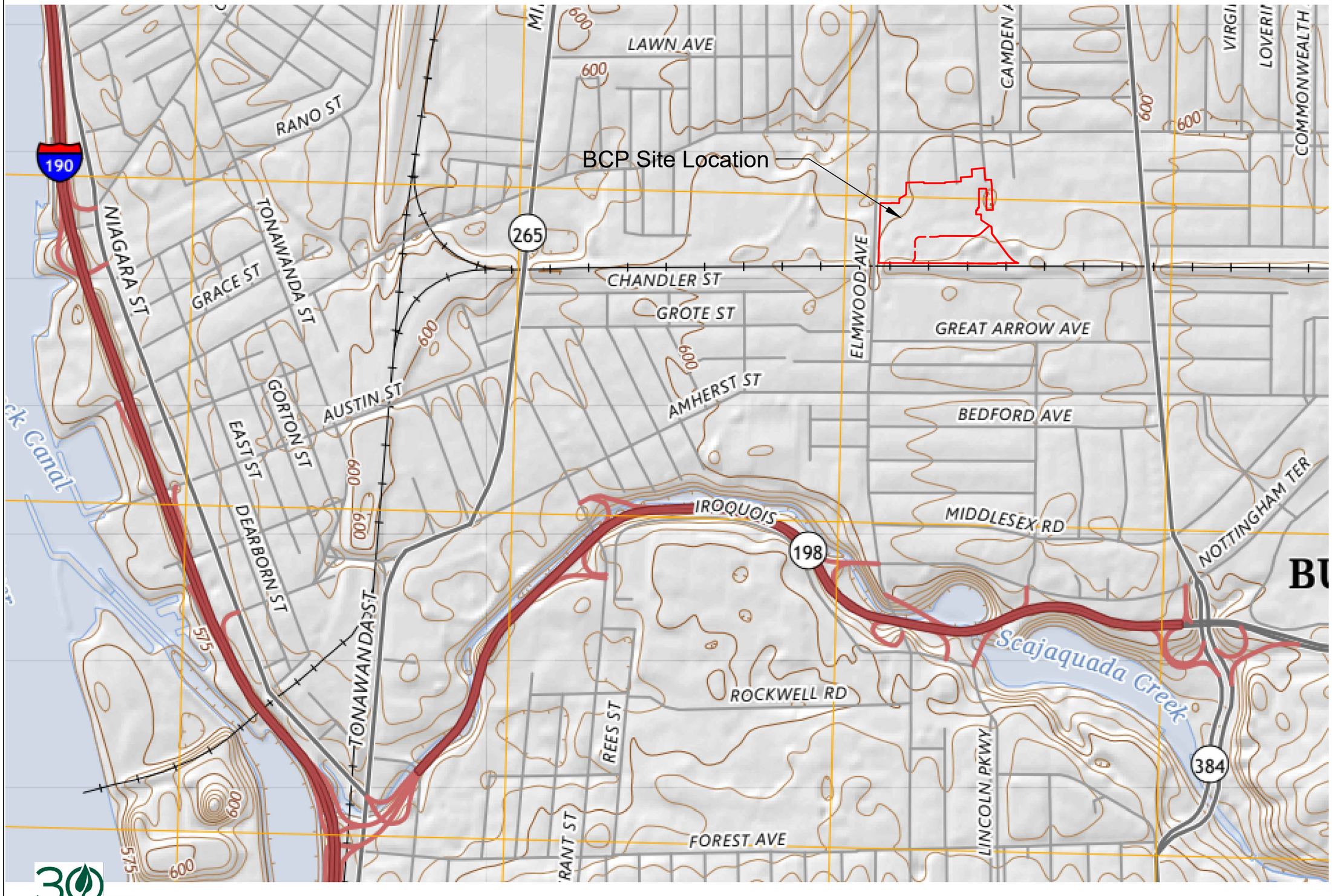
FIGURES



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PROJECT NAME/LOCATION:

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Buffalo, New York

BCP #C915314

PROJECT NUMBER: 15-017

PROJECT MANAGER: MMS

DRAWN BY: MMS

REVIEWED BY: CMC

REVISION HISTORY

NUMBER	BY	DATE
0		

N

Not to Scale
0 Not to Scale

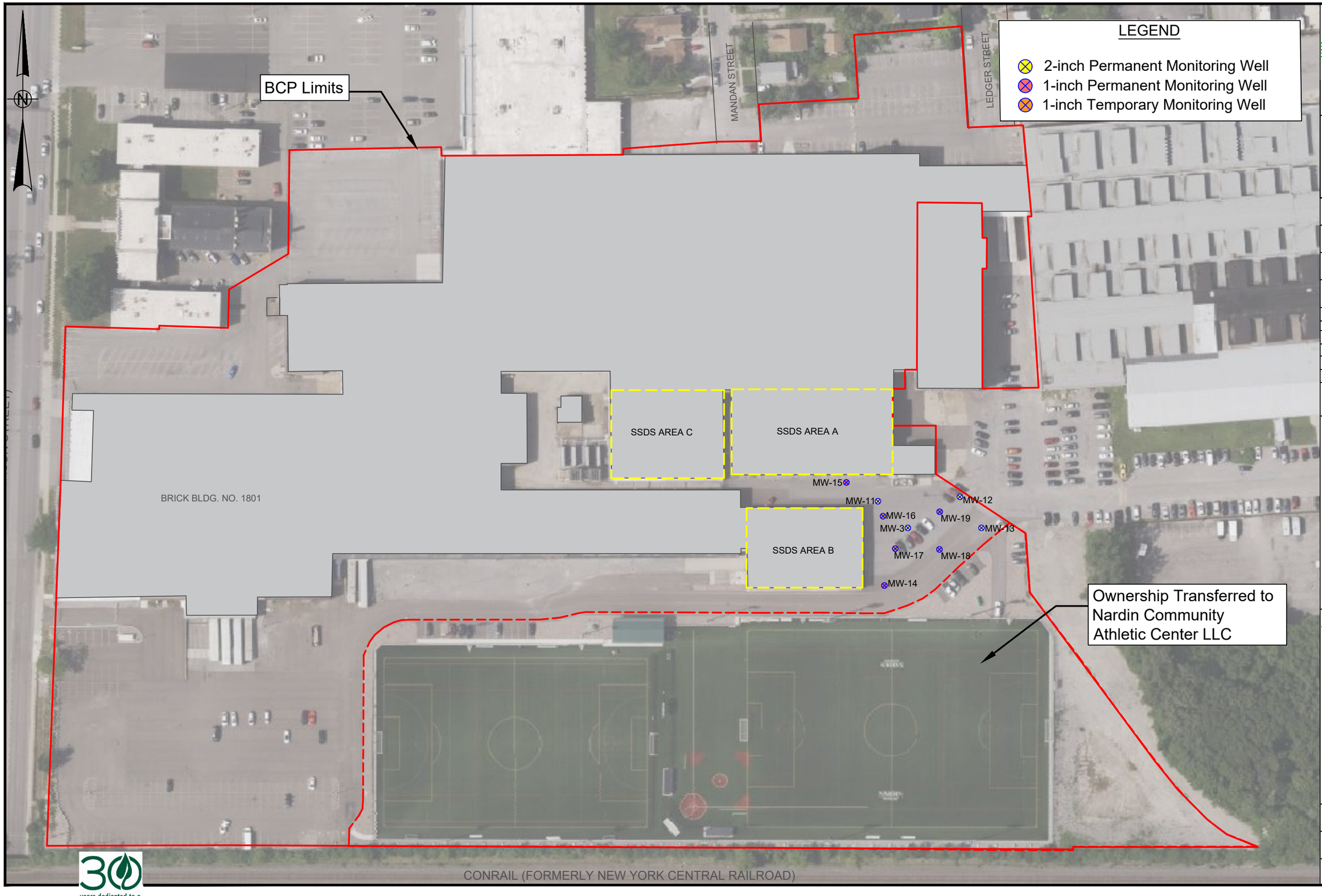
TITLE:

BCP Location Plan

DATE: April 2026

FIGURE: 1

30 years dedicated to a CLEANER ENVIRONMENT 1991-2021



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PREPARED FOR:

MOD-PAC CORP.

PROJECT MGR: MMS

DESIGNED BY: CMC

REVIEWED BY: SRC

DRAWN BY: MMS

REVISION

BY	DATE
MMS	5/1/26

SCALE IN FEET: 1"=100'

0 100

PROJECT NAME / LOCATION:

MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York

BCP #C915314

TITLE:

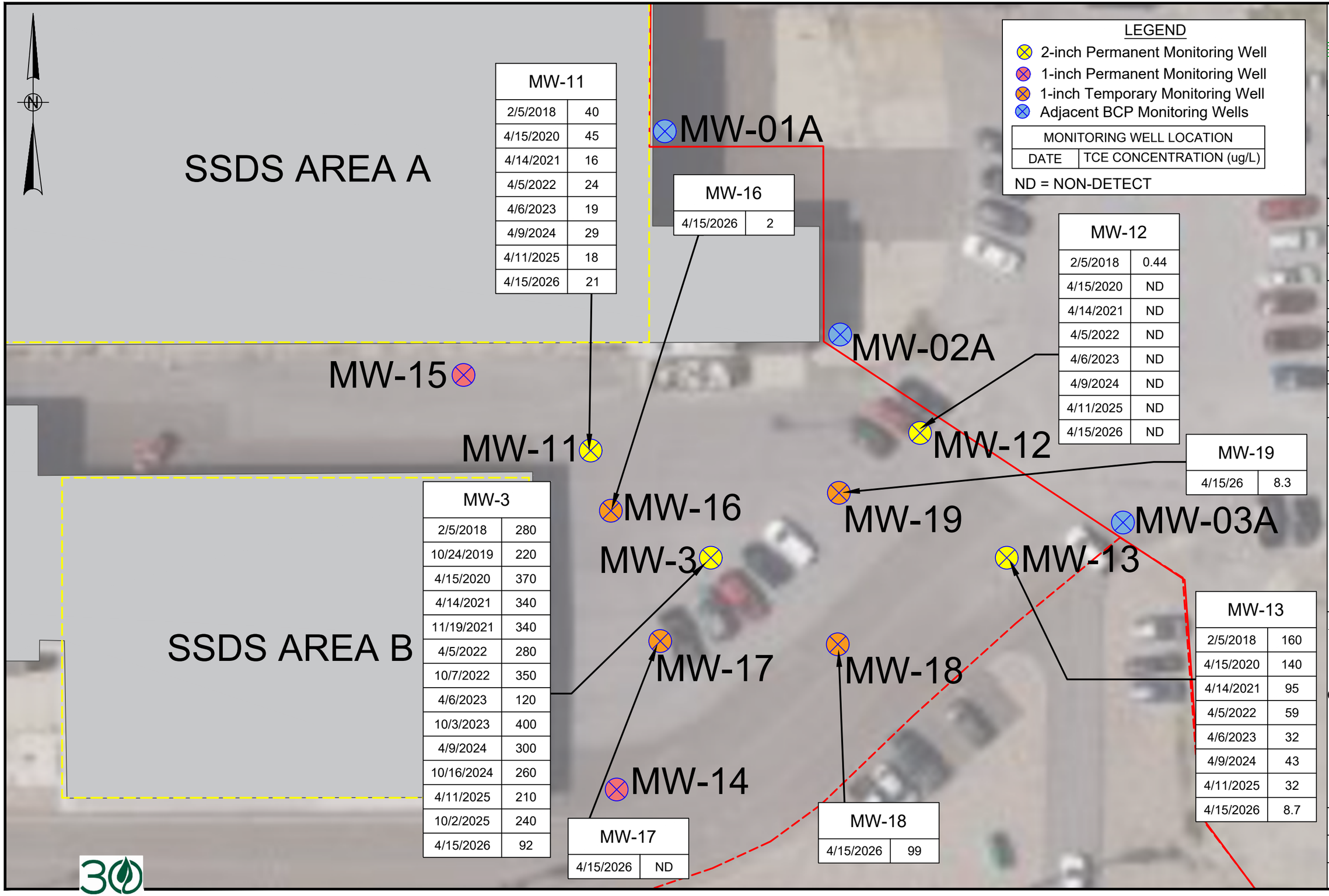
Site Plan

DATE: April 2026

PROJECT NO.: 15-017

FIGURE: 2

30 years dedicated to a CLEANER ENVIRONMENT 1991-2021



MW-11	
2/5/2018	40
4/15/2020	45
4/14/2021	16
4/5/2022	24
4/6/2023	19
4/9/2024	29
4/11/2025	18
4/15/2026	21

MW-16	
4/15/2026	2

MW-12	
2/5/2018	0.44
4/15/2020	ND
4/14/2021	ND
4/5/2022	ND
4/6/2023	ND
4/9/2024	ND
4/11/2025	ND
4/15/2026	ND

MW-19	
4/15/26	8.3

MW-3	
2/5/2018	280
10/24/2019	220
4/15/2020	370
4/14/2021	340
11/19/2021	340
4/5/2022	280
10/7/2022	350
4/6/2023	120
10/3/2023	400
4/9/2024	300
10/16/2024	260
4/11/2025	210
10/2/2025	240
4/15/2026	92

MW-13	
2/5/2018	160
4/15/2020	140
4/14/2021	95
4/5/2022	59
4/6/2023	32
4/9/2024	43
4/11/2025	32
4/15/2026	8.7

MW-17	
4/15/2026	ND

MW-18	
4/15/2026	99

LEGEND

- 2-inch Permanent Monitoring Well
- 1-inch Permanent Monitoring Well
- 1-inch Temporary Monitoring Well
- Adjacent BCP Monitoring Wells

MONITORING WELL LOCATION	
DATE	TCE CONCENTRATION (ug/L)

ND = NON-DETECT

30 years dedicated to a CLEANER ENVIRONMENT 1991-2021

PREPARED BY:

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PREPARED FOR:

MOD-PAC CORP.

PROJECT MGR: MMS

DESIGNED BY: CMC

REVIEWED BY: SRC

DRAWN BY: MMS

REVISION	
BY	DATE
MMS	5/1/2026

SCALE IN FEET: 1"=25'

0 25

PROJECT NAME / LOCATION:

MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York

BCP #C915314

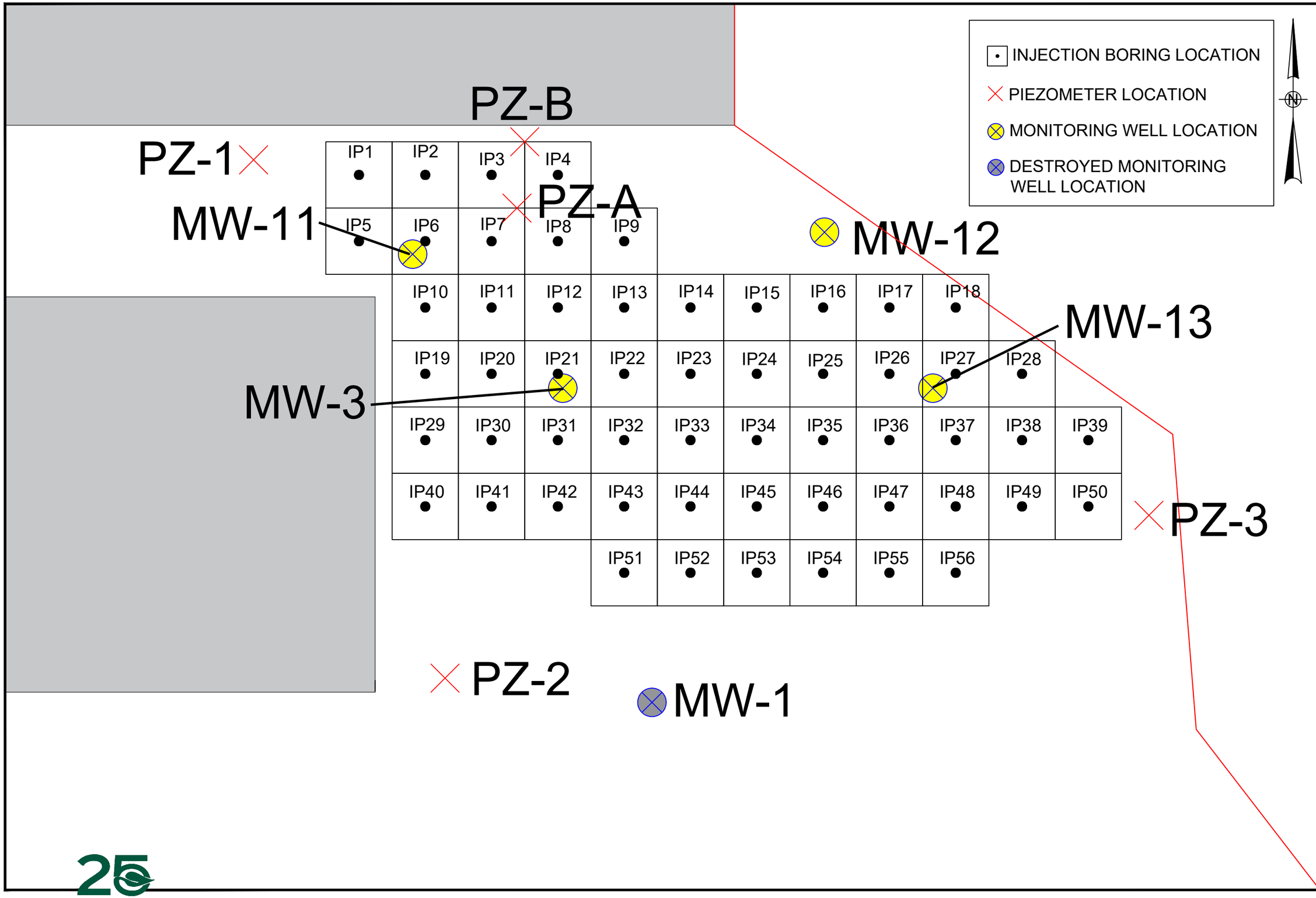
TITLE:

Historical TCE Concentrations By Location

DATE: As Noted

PROJECT NO.: 15-017

FIGURE: 3



PREPARED BY:

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PREPARED FOR:

MOD-PAC CORP.

PROJECT MGR: SLM

DESIGNED BY: CMC

REVIEWED BY: SRC

DRAWN BY: CMC

REVISION	
BY	DATE

SCALE IN FEET: 1"=20'

0 20

PROJECT NAME / LOCATION:

MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York

BCP #C915314

TITLE:

Full-Scale ISCO Injection Layout

DATE: October 2019

PROJECT NO.: 19-012

FIGURE: 4

25 years dedicated to a CLEANER ENVIRONMENT 1991-2016

MW-19	
TCE	8.3
cis-1,2-DCE	ND
trans-1,2-DCE	ND
Vinyl chloride	ND
TOTAL VOCs	8.3

MW-11	
TCE	19
cis-1,2-DCE	11
trans-1,2-DCE	14
Vinyl chloride	9.4
TOTAL VOCs	58

MW-16	
TCE	2.0
cis-1,2-DCE	ND
trans-1,2-DCE	ND
Vinyl chloride	0.22
TOTAL VOCs	12.1

MW-3	
TCE	201
cis-1,2-DCE	65
trans-1,2-DCE	4.2
Vinyl chloride	2.2
TOTAL VOCs	277

MW-17	
TCE	ND
cis-1,2-DCE	3.2
trans-1,2-DCE	1.8
Vinyl chloride	5.3
TOTAL VOCs	10.3

MW-12	
TCE	ND
cis-1,2-DCE	ND
trans-1,2-DCE	ND
Vinyl chloride	ND
TOTAL VOCs	3.3

MW-13	
TCE	33
cis-1,2-DCE	101
trans-1,2-DCE	14
Vinyl chloride	35
TOTAL VOCs	181

MW-18	
TCE	99
cis-1,2-DCE	20
trans-1,2-DCE	ND
Vinyl chloride	0.11
TOTAL VOCs	119

MW-1

LEGEND

- DESTROYED MONITORING WELL LOCATION
- PERMANENT MONITORING WELL LOCATION
- TEMPORARY 1" MONITORING WELL LOCATION

MONITORING WELL LOCATION	
ANALYTE	CONCENTRATION (ug/L)

- PROPOSED INJECTION BORING LOCATION
- ISCO TREATMENT AREA

Note: Contaminant concentration data is an average of sampling events completed October 2024-April 2026. The ISCO treatment area is defined by TCE concentrations in groundwater > 5 ug/L.

PREPARED BY:

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PREPARED FOR:

MOD-PAC CORP.
BUFFALO, NY

PROJECT MGR: SLM

DESIGNED BY: CMC

REVIEWED BY: SRC

DRAWN BY: CMC

REVISION	
BY	DATE
CMC	5/11/26

SCALE IN FEET: 1"=20'

0 20

PROJECT NAME / LOCATION:

MOD-PAC CORP.
1801 Elmwood Avenue
Buffalo, New York

BCP #C915314

TITLE:

Groundwater TCE Plume
and
Proposed ISCO Injection
Layout

DATE:

PROJECT NO.: 19-012

FIGURE: 5

30 years dedicated to a CLEANER ENVIRONMENT 1991-2021

TABLES

Table 1
Historical Groundwater Monitoring and Sampling Data Summary
MOD-PAC CORP.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	1,1-Dichloroethene (µg/L)	2-Butanone (µg/L)	Acetone (µg/L)	Benzene (µg/L)	cis-1,2-Dichloroethene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Vinyl chloride (µg/L)	Total VOCs (µg/L)	% Increase/ Decrease TCE (2018 Baseline)	% Increase/ Decrease TCE (2026 Baseline)
	NY-TOGS-GA (µg/L)				5	50	50	1	5	5	5	2			
MW - 3	2/5/18	600.71	5.05	595.66	ND	ND	ND	ND	**80**	**14**	**280**	**13**	**387**	**Baseline**	NA
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019														NA
	7/16/19	600.71	NG	NG	ND	**3.1 J**	**38**	ND	ND	ND	ND	ND	**43**	-100	NA
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019														NA
	10/24/19*	600.71	NG	NG	ND	ND	<20	<1	**30**	**3.0**	**220**	<1	**253**	-21	NA
	4/15/20	600.71	5.54	595.17	ND	ND	**6.4 J**	ND	**57**	**7.3**	**370 JH**	**3.7**	**444**	**32**	NA
	4/14/21	600.71	5.98	594.73	**0.88 J**	ND	ND	ND	**82**	**8.8**	**340**	**5.6**	**440**	**21**	NA
	7/1/21	600.71	6.30	594.41	**2.0**	ND	ND	**0.41 J**	**140**	**16**	**400**	**8.1**	**567**	**43**	NA
	11/19/21	600.71	5.30	595.41	**0.77 J**	ND	ND	ND	**43**	**4.0 J**	**340**	**2.9**	**391**	**21**	NA
	1/12/22	600.71	5.70	595.01	**0.86**	ND	ND	**0.16 J**	**57**	**3.3**	**190**	**3.5**	**255**	-32	NA
	4/5/22	600.71	5.65	595.06	**0.44 J**	ND	ND	ND	**46**	**5.1 J**	**280**	**2.3 J**	**334**	0	NA
	7/6/22	600.71	5.91	594.80	**0.48 J**	ND	ND	ND	**74**	**6.2**	**240**	**3.7**	**324**	-14	NA
	10/7/22	600.71	6.03	594.68	**0.76 J**	**6.5 J**	**7.6 J**	**0.34 J**	**92**	**6.5**	**350**	**7.2**	**471**	**25**	NA
	1/5/23	600.71	4.70	596.01	**0.24 J**	ND	ND	ND	**29**	**1.5 J**	**170 R1**	**0.55 J**	**201**	-39	NA
	4/6/23	600.71	5.35	595.36	ND	ND	ND	ND	**17 J**	**0.92 J**	**120 J**	**0.41 J**	**138**	-57	NA
	7/25/23	600.71	NG	NG	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NA
	10/3/23	600.71	6.30	594.41	ND	ND	ND	ND	**99**	**8.3 J**	**400**	**4.8**	**512**	**43**	NA
	1/12/24	600.71	5.28	595.43	**0.35 J**	ND	ND	ND	**66**	**5.4**	**330**	**1.7 J**	**403**	**18**	NA
	4/9/24	600.71	5.62	595.09	**0.41 J**	ND	ND	ND	**54**	**4.9 J**	**300**	**1.9 J**	**361**	**7**	NA
	7/1/24	600.71	5.26	595.45	ND	ND	ND	ND	**66**	**5.2 J**	**250**	**1.9 J**	**323**	-11	NA
	10/16/24	600.71	5.93	594.78	**0.66 J**	ND	ND	ND	**130**	**8.9**	**260**	**3.8**	**403**	-7	NA
	4/11/25	600.71	5.54	595.17	**0.28**	ND	**5.5**	ND	**43**	**3.0**	**210**	**1.4**	**263**	-25	NA
	10/2/25	600.71	6.26	594.45	**0.74**	ND	**13**	ND	**74**	**4.2**	**240**	**3.2**	**335**	-14	NA
	4/15/26	600.71	5.32	595.39	ND	ND	**4.3 J**	ND	**11**	**0.73 J**	**92**	**0.20 J**	**108**	-67	**Baseline**
MW - 11	2/5/18	600.41	4.66	595.75	ND	**2.3 J**	**9.4**	**0.16 J**	**3.1**	**2.9**	**40**	**5.6**	**65**	**Baseline**	NA
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019														NA
	7/16/19	600.41	NG	NG	**0.35 J**	ND	**4.5 J**	ND	**14**	**25**	**20**	**9.8**	**74**	-50	NA
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019														NA
	10/24/19*	600.41	NG	NG	ND	**150 J**	**920**	ND	<10	<10	**16**	ND	**1086**	-60	NA
	4/15/20	600.41	5.27	595.14	ND	**2.2 J**	**11**	**0.21 J**	**7.0**	**10**	**45 JH**	**9.0**	**84**	**13**	NA
	4/14/21	600.41	5.74	594.67	ND	ND	**ND**	ND	**8.0**	**9.4**	**16**	**5.7**	**39**	-60	NA
	7/1/21	600.41	6.00	594.41	**0.35 J**	ND	ND	**0.25 J**	**13**	**17**	**47**	**10**	**88**	**18**	NA
	11/19/21	600.41	5.15	595.26	**0.27 J**	ND	ND	**0.25 J**	**17**	**30**	**32**	**7.8**	**87**	-20	NA
	1/12/22	600.41	5.45	594.96	**0.31 J**	ND	ND	**0.20 J**	**11**	**19**	**22**	**6.2**	**59**	-45	NA
	4/5/22	600.41	5.00	595.41	**0.27 J**	ND	ND	**0.17 J**	**9.8**	**15**	**24**	**9.7**	**59**	-40	NA
	7/6/22	600.41	5.45	594.96	**0.36 J**	ND	**3.6 J**	**0.22 J**	**15**	**20**	**27**	**10**	**76**	-33	NA
	10/7/22	600.41	5.80	594.61	ND	ND	ND	**0.22 J**	**13**	**15**	**34**	**7.2**	**69**	-15	NA
	1/5/23	600.41	4.73	595.68	**0.25 J**	ND	ND	**0.16 J**	**11**	**16**	**31**	**9.4**	**68**	-23	NA
	4/6/23	600.41	4.60	595.81	**0.39 J**	ND	ND	ND	**10 J**	**16**	**19 J**	**10**	**55**	-53	NA
	7/25/23	600.41	5.60	594.81	**0.22 J**	ND	**2.5 J**	**0.20 J**	**12**	**17**	**23**	**17**	**72**	-43	NA
	10/3/23	600.41	6.05	594.36	ND	ND	**5.7**	ND	**11**	**12**	**12**	**8.5**	**49**	-70	NA
	1/12/24	600.41	5.34	595.07	**0.22 J**	ND	ND	ND	**11**	**13**	**12**	**8.7**	**45**	-70	NA
	4/9/24	600.41	5.58	594.83	**0.52**	ND	**2.4 J**	**0.17 J**	**12**	**18**	**29**	**12**	**74**	-28	NA
	7/1/24	600.41	5.30	595.11	**0.22 J**	ND	**3.1 J**	**0.23 J**	**17**	**21**	**37**	**14**	**93**	-8	NA
	10/16/24	600.41	8.65	591.76	**0.24 J**	ND	**3.1 J**	**0.18 J**	**15**	**17**	**17**	**7.5**	**60**	-58	NA
	4/11/25	600.41	5.45	594.96	**0.32**	ND	**3.4**	ND	**9.4**	**13**	**18**	**11**	**55**	-55	NA
	10/2/25	600.41	6.04	594.37	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NA
	4/15/26	600.41	5.40	595.01	**0.40 J**	ND	**6.4**	ND	**9.1**	**12**	**21**	**9.7**	**59**	-48	**Baseline**
MW - 12	2/5/18	600.50	4.52	595.98	ND	ND	**2.2 J**	ND	ND	ND	**0.44 J**	ND	**3**	**Baseline**	NA
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019														NA
	7/16/19	600.50	NG	NG	ND	ND	**3.0 J**	ND	ND	ND	ND	ND	**3**	-100	NA
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019														NA
	10/24/19*	600.50	NG	NG	ND	ND	<200	ND	ND	ND	ND	ND	ND	-100	NA
	4/15/20	600.50	4.41	596.09	ND	ND	**11**	ND	ND	ND	ND	ND	**11**	-100	NA
	4/14/21	600.50	4.86	595.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	7/1/21	600.50	5.35	595.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	11/19/21	600.50	4.10	596.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	1/12/22	600.50	4.58	595.92	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	4/5/22	600.50	4.41	596.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	7/6/22	600.50	4.10	596.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	10/7/22	600.50	5.04	595.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	1/5/23	600.50	3.54	596.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	4/6/23	600.50	3.76	596.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	7/25/23	600.50	4.71	595.79	ND	ND	ND	ND	ND	ND	**0.20 J**	ND	**0**	-55	NA
	10/3/23	600.50	5.39	595.11	ND	ND	ND	ND	ND	ND	**0.18 J**	ND	**0**	-59	NA
	1/12/24	600.50	4.41	596.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	4/9/24	600.50	4.41	596.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	7/1/24	600.50	4.10	596.40	ND	ND	ND	ND	ND	ND	**0.86**	ND	**1**	**95**	NA
	10/16/24	600.50	4.84	595.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	-100	NA
	4/11/25	600.50	4.37	596.13	ND	ND	**3.9**	ND	ND	ND	ND	ND	**4**	-100	NA
	10/2/25	600.50	5.32	595.18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NA
	4/15/26	600.50	4.22	596.28	ND	ND	**2.6 J**	ND	ND	ND	ND	ND	**3**	-100	**Baseline**
MW - 13	2/5/18	600.31	4.44	595.87	**1.0**	ND	ND	ND	**180**	**4.1**	**160**	**25**	**371**	**Baseline**	NA
	Potassium Permanganete Pilot Study June 27, 2019 - June 28, 2019														NA
	7/16/19	600.31	NG	NG	**1.20 J**	ND	ND	ND	**400**	**3.9 J**	**78**	**56**	**539**	-51	NA
	Potassium Permanganete Injections October 1, 2019 - October 10, 2019														NA
	10/24/19*	600.31	NG	NG	<1	ND	**28**	ND	**97**	**2.0**	**240**	**2.0**	**369**	**50**	NA
	4/15/20	600.31	3.70	596.61	**0.73**	ND	**3.2 J**	ND	**200**	**4.4**	**140 JH**	**55**	**403**	-13	NA
	4/14/21	600.31	4.13	596.18	**0.69**	ND	ND	ND	**150**	**1.7 J**	**95**	**70**	**317**	-41	NA
	7/1/21	600.31	4.60	595.71	**1.5**	ND	ND	**0.18 J**	**210**	**3.9**	**150**	**88**	**454**	-6	NA
	11/19/21	600.31	3.30	597.01	**0.45 J**	ND	ND	ND	**50**	ND	**73**	**20**	**143**	-54	NA
	1/12/22	600.31	3.85	596.46	**1.1**	ND	ND	ND	**140**	**1.8 J**	**74**	**54**	**271**	-54	NA
	4/5/22	600.31	3.80	596.51	**0.90**	ND	ND	ND	**130**	**1.8 J**	**59**	**75**	**267**	-63	NA
	7/6/22	600.31	4.11	596.20	**0.73**	ND	ND	ND	**110**	**1.7 J**	**89**	**51**	**252**	-44	NA
	10/7/22	600.31	5.66	594.65	**0.53**	**1.9 J**	ND	ND	**85**	**1.2 J**	**72**	**39**	**200**	-55	NA
	1/5/23	600.31	2.62	597.69	**0.19 J**	ND	ND	ND	**40**	ND	**35**	**6.0**	**81**	-78	NA
	4/6/23	600.31	3.10	597.21	**0.22 J**	ND	ND	ND	**42 J**	ND	**32 J**	**15**	**89**	-80	NA
	7/25/23	600.31	3.98	596.33	**0.55**	ND	ND	ND	**89**	**1.3 J**	**90**	**35**	**216**	-44	NA
	10/3/23	600.31	6.70	593.61	**0.55**	ND	ND	ND	**90**	**1.1 J**	**71**	**35**	**198**	-56	NA
	1/12/24	600.31	3.11	597.20	**0.18 J**	ND	ND	ND	**35**	ND	**36**	**9.1**	**80**	-78	NA
	4/9/24	600.31	3.66	596.65	**0.30 J**	ND	ND	ND	**55**	**0.70 J**	**43**	**22**	**121**	-73	NA
	7/1/24	600.31	3.27	597.04	**0.18 J**	ND	ND	ND	**32**	ND	**54**	**11**	**97**	-66	NA
	10/16/24	600.31	3.85	596.46	**0.50**	ND	ND	ND	**90**	**1.2 J**	**57**	**39**	**188**	-64	NA
	4/11/25	600.31	4.00	596.31	ND	ND	**3.5**	ND	**23**	ND	**32**	**7.0**	**66**	-80	NA
	10/2/25	600.31	4.56	595.75	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NA
	4/15/26	600.31	2.98	597.33	**0.63 J**	ND	**3.2 J**	ND	**190**	**27**	**8.7**	**60**	**290**	-95	**Baseline**
MW - 16	4/15/26	600.00	6.36	593.64	ND	ND	**9.9**	ND	ND	ND	**2**	**0.22 J**	**12**	NA	**Baseline**
MW - 17	4/15/26	599.81	6.53	593.28	ND	ND	ND	ND	**3.2**	**1.8 J**	**ND**	**5.3**	**10**	NA	**Baseline**
MW - 18	4/15/26	600.80	5.21	595.59	**0.2 J**	ND	ND	ND	**20**	ND	**99**	**0.11 J**	**119**	NA	**Baseline**
MW - 19	4/15/26	600.71	5.04	595.67	ND	ND	ND	ND	ND	ND	**8.3**	ND	**8**	NA	**Baseline**

Notes:

1. NG = Not Gauged; NT = Not Tested; ND = Non-Detect; NA = Not Applicable; J = Estimated value; JH = Estimated high value.
2. Water Levels measured from top of riser
3. Blue Shading = Result exceeds NY-TOGS-GA for Analyte
4. **RED BOLDED** = Percent increase of TCE from Baseline
5. **BLUE BOLDED** = Result changed as a result of data validation.
6. 10/24/2019 data analyzed by eurofins Lancaster Labratories Environmental, all other data analyzed by Alpha Analyitical/Pace Analyitical.

Table 2

Groundwater Monitoring and Sampling Data Summary April 2026

MOD-PAC CORP.

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	1,1-Dichloroethene (µg/L)	2-Butanone (µg/L)	Acetone (µg/L)	Benzene (µg/L)	cis-1,2-Dichloroethene (µg/L)	trans-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	Vinyl chloride (µg/L)	Total VOCs (µg/L)
	NY-TOGS-GA (µg/L)				5	50	50	1	5	5	5	2	
MW - 3	4/15/26	600.71	5.32	595.39	ND	ND	**4.3 J**	ND	**11**	**0.73 J**	**92**	**0.20 J**	**108**
MW - 11	4/15/26	600.41	5.40	595.01	**0.40 J**	ND	**6.4**	ND	**9.1**	**12**	**21**	**9.7**	**59**
MW - 12	4/15/26	600.50	4.22	596.28	ND	ND	**2.6 J**	ND	ND	ND	ND	ND	**2.6**
MW - 13	4/15/26	600.31	2.98	597.33	**0.63 J**	ND	**3.2 J**	ND	**190**	**27**	**8.7**	**60**	**290**
MW - 16	4/15/26	600.00	6.36	593.64	ND	ND	**9.9**	ND	ND	ND	**2**	**0.22 J**	**12**
MW - 17	4/15/26	599.81	6.53	593.28	ND	ND	ND	ND	**3.2**	**1.8 J**	ND	**5.3**	**10**
MW - 18	4/15/26	600.80	5.21	595.59	**0.2 J**	ND	ND	ND	**20**	ND	**99**	**0.11 J**	**119**
MW - 19	4/15/26	600.71	5.04	595.67	ND	ND	ND	ND	ND	ND	**8.3**	ND	**8.3**

Notes:

1. ND = Non-Detect; J = Estimated value.
2. Water Levels measured from top of riser
3. Blue Shading = Result exceeds NY-TOGS-GA for Analyte

CHARTS

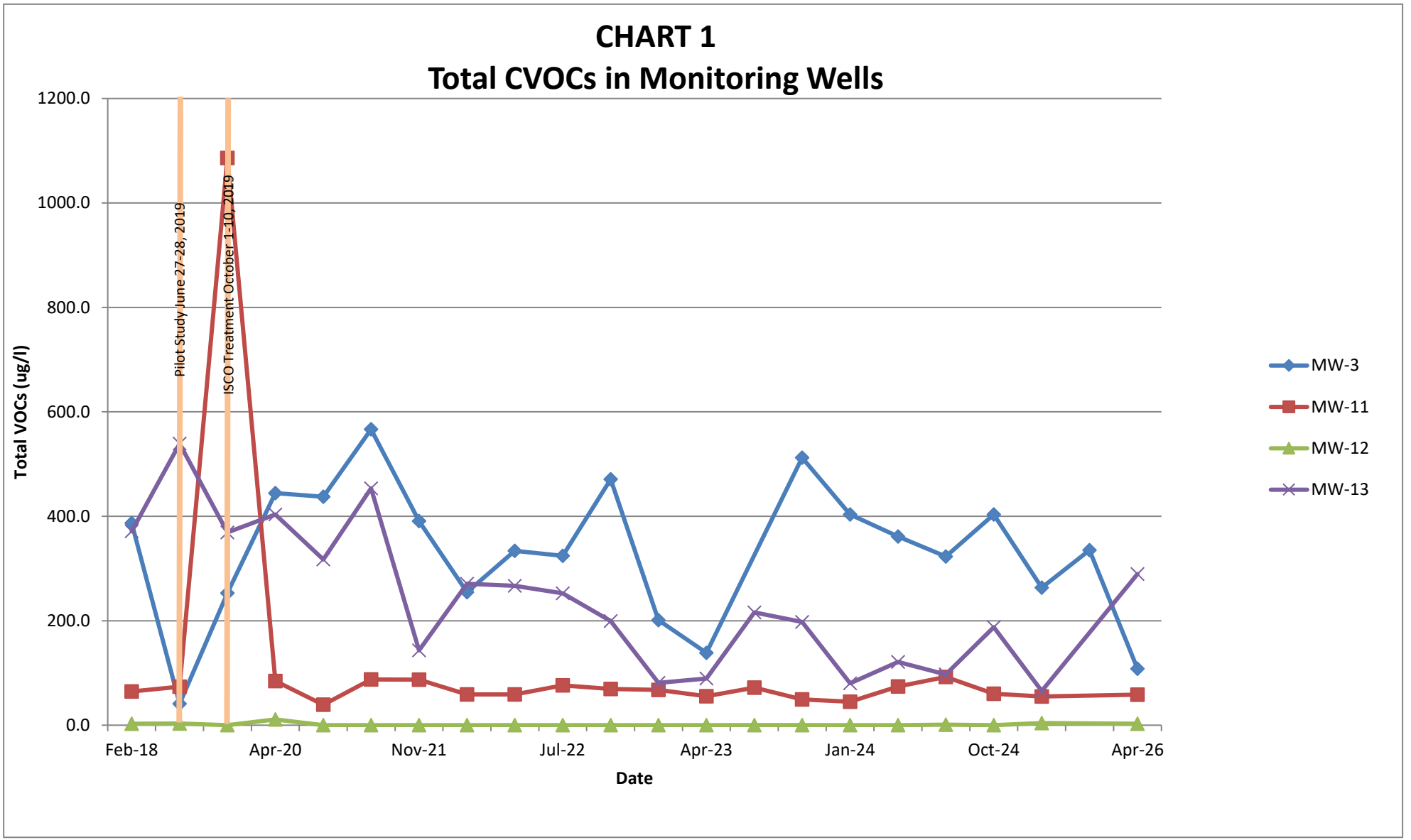


CHART 1
Total CVOCs in Monitoring Wells
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
Total VOCs (ug/l)
Pilot Study June 27-28, 2019
ISCO Treatment October 1-10, 2019
Feb-18
Apr-20
Nov-21
Jul-22
Apr-23
Jan-24
Oct-24
Apr-26
Date
MW-3
MW-11
MW-12
MW-13

CHART 2
TCE Concentrations in Monitoring Wells

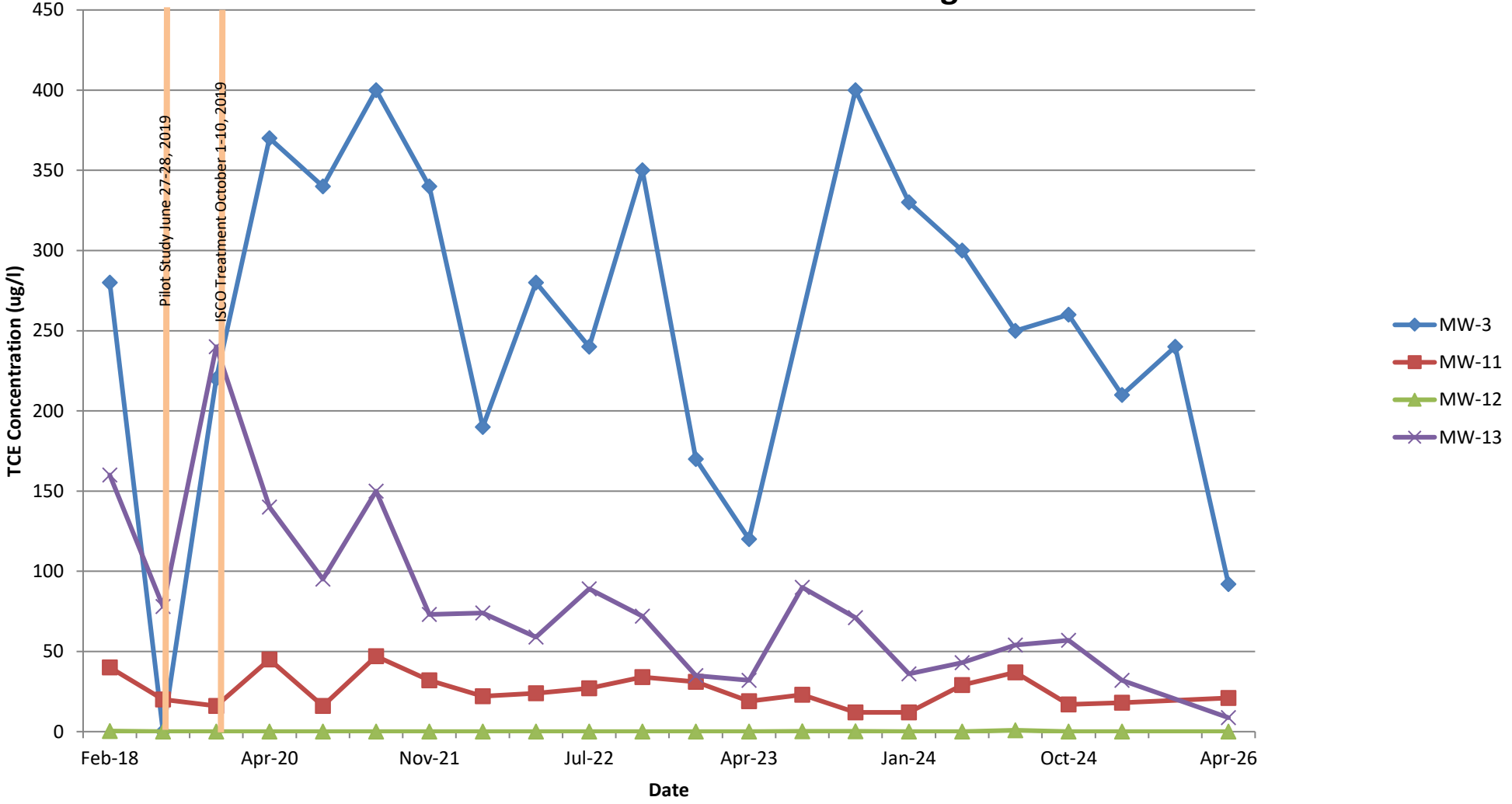


CHART 3
Total CVOCs in MW-3

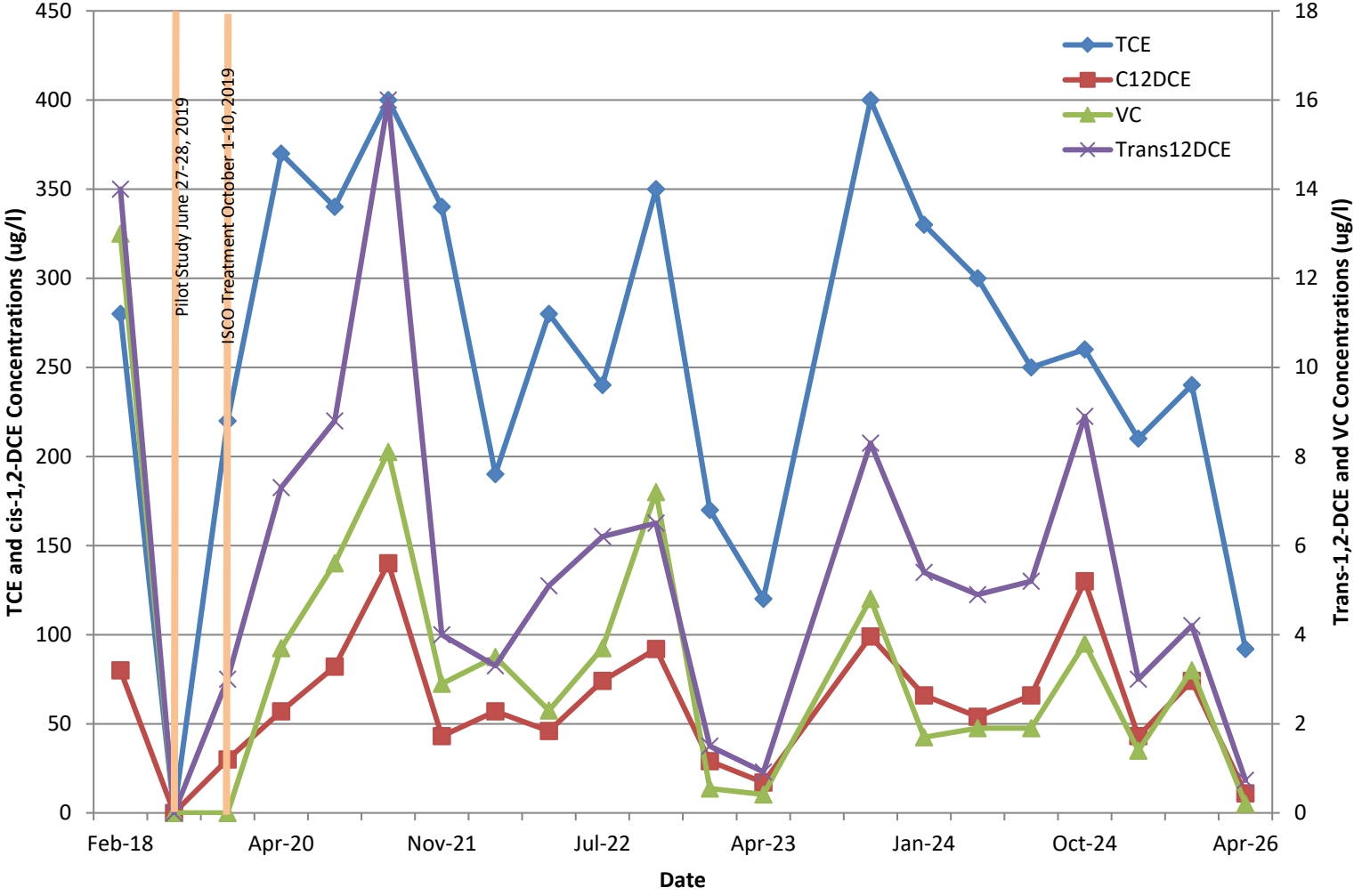


CHART 4
Total CVOCs in MW-11

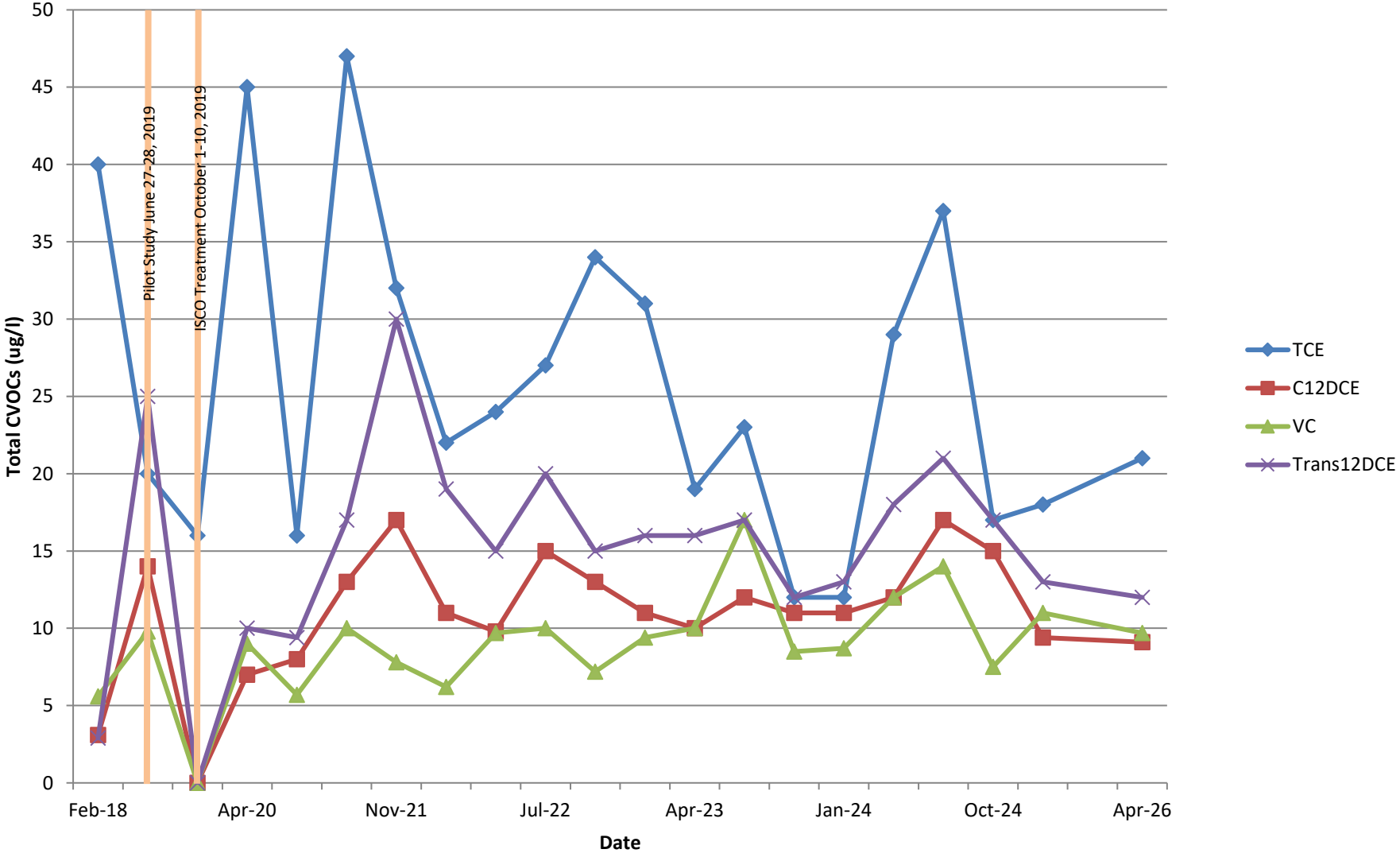


CHART 5
Total CVOCs in MW-12

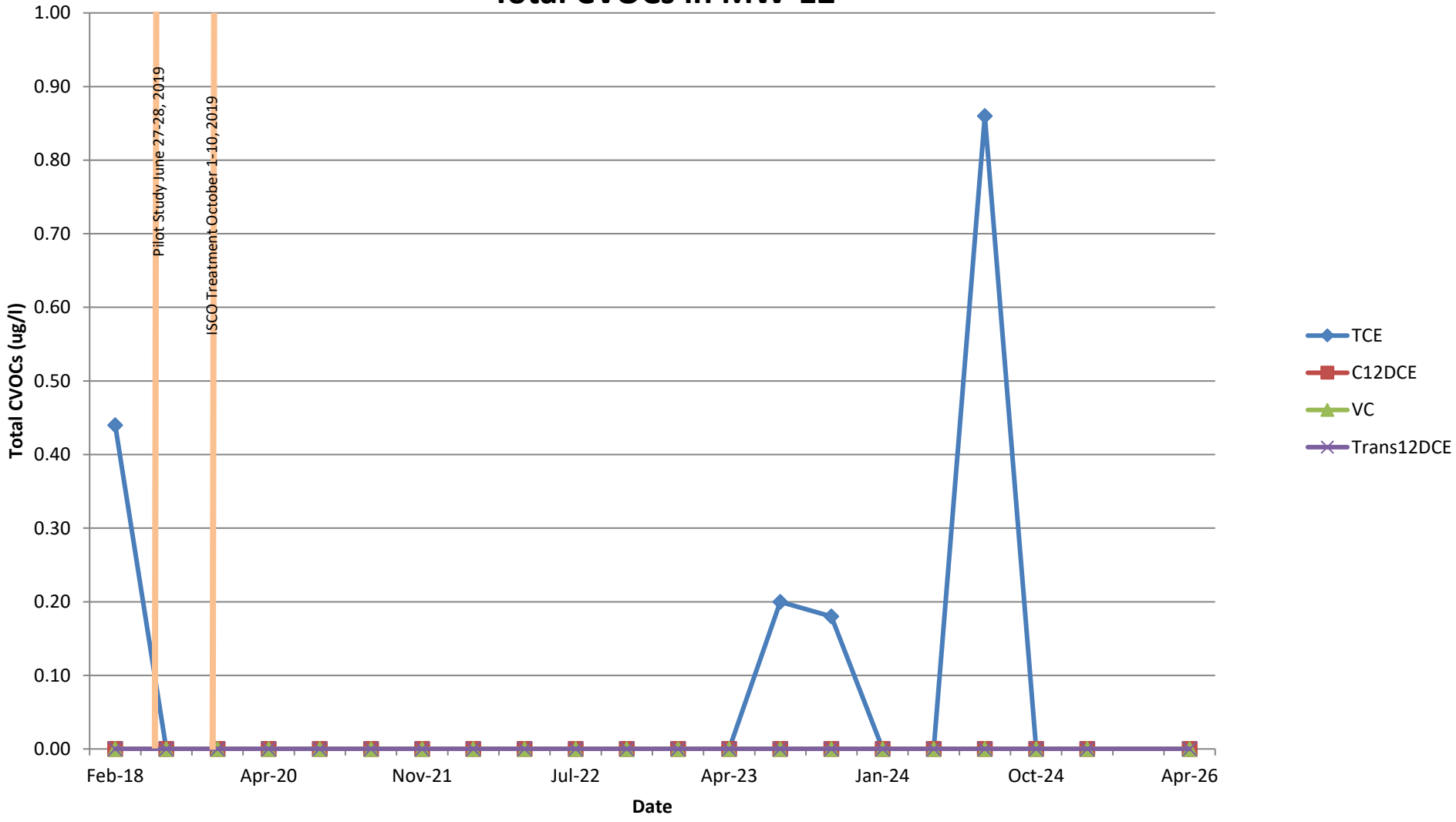
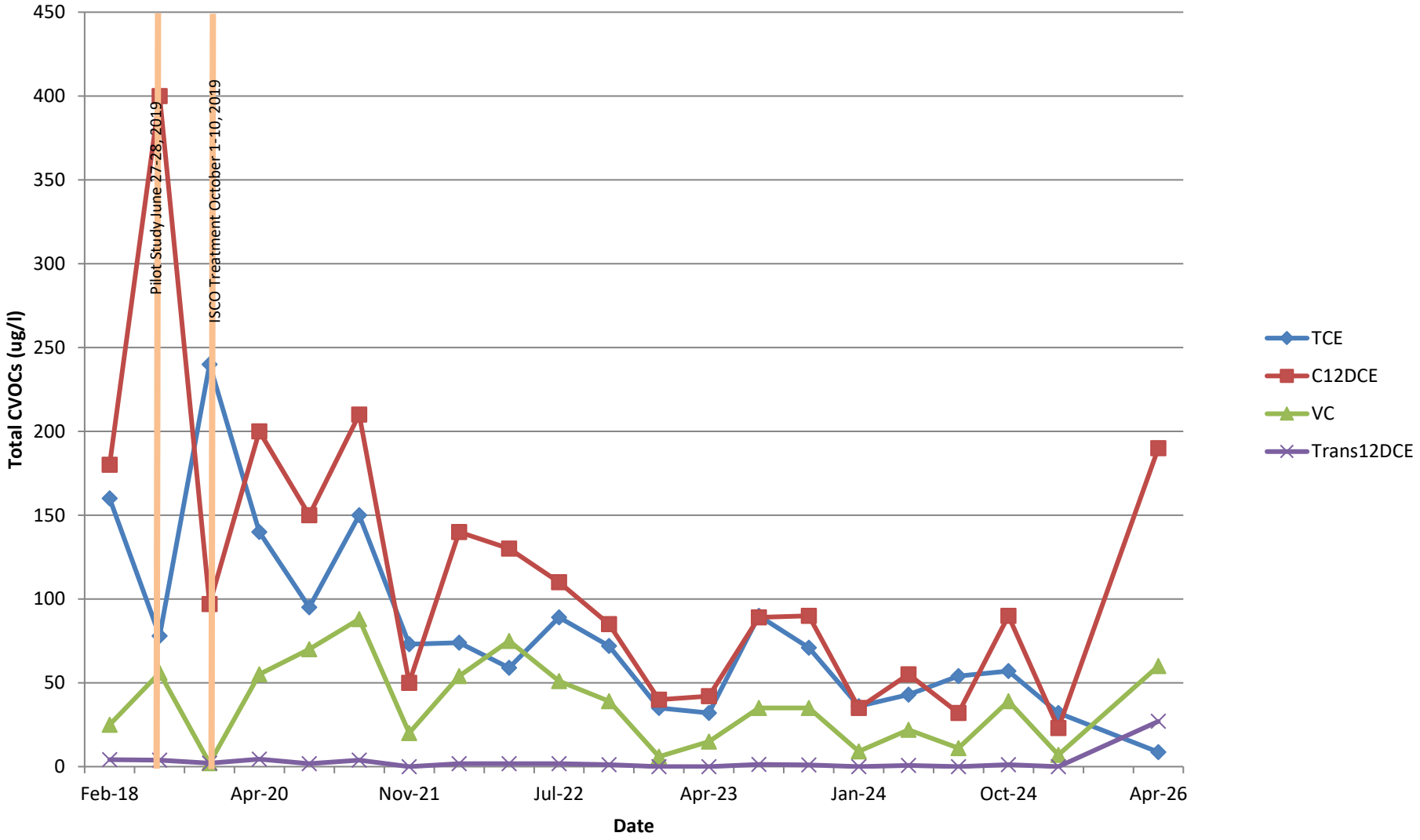


CHART 6
Total CVOCs in MW-13



APPENDIX A

Soil Boring Logs and Monitoring Well Construction Details

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB109

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 10/23/2017 End Date: 10/23/2017
Type of Drill Rig: Truck
GW Depth While Drilling: 6.0'
Drilling Contractor: TREC Env.
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	36	Brown f/c Sand, some Gravel, little Silt, moist. (FILL)	
1					0
2					0
				Grades to … Dk. Brown, tr. Gravel, tr. Slag.	
3					0
	2	4-8	40		
4					0
5					0
6				Grades to … wet.	0
7					0
				Grades to … Saturated.	
8	3	8-12	40		0
9					0
10					0
11				Grades to … little Slag.	0.2
	4	12-16	48		0.2
12				Grades to … tr. Slag, wet.	
13					0
				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	
14					0
15					0
16					0
				Bottom of Boring 16' bg	
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB110

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 10/23/2017 End Date: 10/23/2017
Type of Drill Rig: Truck
GW Depth While Drilling: 6.0'
Drilling Contractor: TREC Env.
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	40	Brown Silt & Clay, little Gravel, little f/c Sand, moist. (FILL)	
1					0
2				Brown f/c Sand, and Slag, tr. Gravel, moist. (FILL)	0
3					5
				Grades to … Dk. Brown, tr. Slag.	
4	2	4-8	24		6
5					5
6				Grades to … wet.	5
				Grades to … saturated.	
7					5
8	3	8-12	40		4
				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	
9					3
10					3
11					0
12					0
				Bottom of Boring 12' bg	
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

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2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB111

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 10/23/2017 End Date: 10/23/2017
Type of Drill Rig: Truck
GW Depth While Drilling: NWWD
Drilling Contractor: TREC Env.
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5-4	40	Brown f/c Sand, some Slag, little Gravel, moist. (FILL)	0
2				Grades to … Dk. Brown, tr. Gravel.	0.5
3				Grades to … tr. Slag.	0.5
4	2	4-8	24		0.5
5					0.3
6				Grades to … wet.	0.2
7				Grades to … saturated.	0.1
8	3	8-12	36		0
9				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, moist. (FILL)	0
10				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	0
11					0
12					0
13				Bottom of Boring 12' bg	
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB112

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 10/24/2017 End Date: 10/24/2017
Type of Drill Rig: Truck
GW Depth While Drilling: 6.0'
Drilling Contractor: TREC Env.
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	30	Dk. Brown f/c Sand, some Slag, tr. Gravel, moist. (FILL)	
1					0.5
				Grades to … Brown, some Gravel, tr. Slag.	
2					0
				Grades to … little Gravel, little Slag.	
3					0
				Grades to … Dk. Brown, tr. Gravel, tr. Brick.	
4	2	4-8	24		0
5					0
				Grades to … wet.	
6				Grades to … saturated.	0
				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, moist. (FILL)	
7					0
8	3	8-12	40		0
				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	
9					0
10					0
11					0
12					0
				Bottom of Boring 12' bg	
13					
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB116/MW-3

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 10/24/2017 End Date: 10/24/2017
Type of Drill Rig: Track Mount
GW Depth While Drilling: 6.0'
Drilling Contractor: TREC Env.
GW Depth at Completion: 6.4'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	40	Brown f/c Sand, some Gravel, little Concrete, tr. Slag, moist. (FILL)	
1					0
				Grades to … some Slag, tr. Gravel, tr. Concrete.	
2					0
				Grades to … some Concrete, little Gravel, tr. Slag.	
3					0
				Grades to … tr. Concrete, tr. Gravel.	
4	2	4-8	30		0
5				Grades to … Dk. Brown, wet.	3
6				Grades to … some Wood, little Concrete, saturated.	4
7				Grades to … tr. Wood, tr. Concrete, odor.	5
8	3	8-12	30	Grades to … Black.	6
9					25
10					5
11					2
				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, wet. (FILL)	
12	4	12-16	40		0
				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	
13					0
14					0
15					0
16	5	16-20	48		0
18					0
				Grades to … wet.	
20					0
				Bottom of Boring 20' bg	
22				Monitoring Well installed to 16' bg	
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB172/MW-11

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 2/2/2018 End Date: 2/2/2018
Type of Drill Rig: Track Mount
GW Depth While Drilling: 5.0'
Drilling Contractor: SJB
GW Depth at Completion: 4.66'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
0	1	0-4	36	Gray/Brown Gravel, and f/c Sand, moist. (FILL)	1
1				Grades to… little Cinders.	0.5
2				Brown f/c Sand, and Gravel, little Cinders, moist. (FILL)	0
3				Grades to… tr. Gravel, tr. Cinders.	0
4	2	4-8	40		0
5				Grades to… wet.	
				Grades to… saturated.	0
6					5
7				Grades to… some Cinders, little Gravel, sheen, odor.	2
8	3	8-12	40	Brown Clay & Silt, tr. f/c Sand, tr. Gravel, moist. (FILL)	1
9				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	1.5
10					1
11					1
12	4	12-16	30		0
13					0
14					0
15					0
16				Bottom of Boring 16' bg	
18				Monitoring Well installed to 15' bg	
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS

3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB173/MW-12

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 2/2/2018 End Date: 2/2/2018
Type of Drill Rig: Track Mount
GW Depth While Drilling: 5.0'
Drilling Contractor: SJB
GW Depth at Completion: 4.52'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
				Asphalt	
1	1	0.5-4	40	Gray Sub-base Gravel, tr. Cinders, moist. (FILL)	0
2				Brown f/c Sand, tr. Gravel, moist. (FILL)	0
				Grades to… Dk. Brown, little Cinders.	
3				Grades to… some Cinders.	0
				Grades to… tr. Cinders	
4	2	4-8	40		0
				Grades to… wet.	
5				Grades to… saturated.	0
6					0.1
7				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, wet. (FILL)	0
8	3	8-12	30	Grades to… moist.	0
9					0
				Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	
10					0
11					0
				Grades to… Red/Brown.	
12	4	12-16	30		0
13					0
14					0
15					0
16					0
				Bottom of Boring 16' bg	
18				Monitoring Well installed to 15' bg	
20					
22					
24					

Notes:

General Notes:

1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB174

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 2/2/2018 End Date: 2/2/2018
Type of Drill Rig: Track Mount
GW Depth While Drilling: NWWD
Drilling Contractor: SJB
GW Depth at Completion: NWAC
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
0	1	0-4	40	Brown Clay & Silt, littlef/c Sand, little Gravel, moist. (FILL)	0
2				Grades to… little Cinders.	0
3				Grades to… some Cinders.	0
4	2	4-8	48	Grades to… some f/c Sand, little Cinders.	0
5				Grades to… tr. f/c Sand, tr. Gravel, tr. Cinders, tr. Slag.	0
6					0
7					0
8	3	8-12	48	Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	0
9					0
10					0
11					0
12					0
13				Bottom of Boring 12' bg	
14					
15					
16					
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

HAZARD EVALUATIONS
3636 N. Buffalo Road
Orchard Park, NY 14127
716-667-3130

Boring No: SB175/MW-13

Project Name & Location: Remedial Investigation - 1801 Elmwood Avenue, Buffalo, NY
HEI Representative: E. Betzold
Project Number: e1605
Start Date: 2/2/2018 End Date: 2/2/2018
Type of Drill Rig: Track Mount
GW Depth While Drilling: 7.5'
Drilling Contractor: SJB
GW Depth at Completion: 4.44'
Sampler Type: MC

Sample Depth (ft)	Sample No.	Sample Interval (feet)	Recovery (inches)	SAMPLE DESCRIPTION	OVM Reading (ppm)
	1	0-4	36	Brown f/c Sand, tr. Concrete, tr. Gravel, moist. (FILL)	0
1					0
2				Grades to… Dk. Brown, little Cinders	0
3				Grades to… tr. Cinders.	0
4	2	4-8	40		0
5				Grades to… wet.	0
6					0
7					0
8	3	8-12	48	Grades to… saturated.	0
9				Brown Clay & Silt, tr. f/c Sand, tr. Gravel, wet. (FILL)	0
10					0
11				Red/Brown CLAY & SILT, tr. f/c Sand, tr. Gravel, moist.	0
12	4	12-16	36		0
13					0
14					0
15					0
16				Bottom of Boring 16' bg Monitoring Well installed to 15' bg	
18					
20					
22					
24					

Notes:

General Notes:
1 - Boundary between soil types represented with stratification line. Transitions may be gradual. Depths are approximate.
2 - Groundwater (GW) depths approximate at time of sampling. Fluctuations in groundwater may occur.
3 - f=fine; m=medium; c=coarse
4 - and (36-50%); some (21-35%); little (11-20%); trace (1-10%)

MC - Geoprobe Macrocore SS - Split Spoon SH - Shelby Tube BC - Bedrock Core

Hazard Evaluations, Inc.

Hole No.: SB116/MW-3
Sheet 1 of 1

Date started: 10/30/17
Date Finished: 10/30/17

Client: MOD-PAC CORP

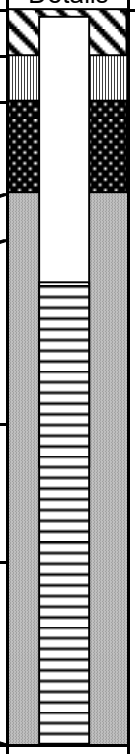
Location: 1801 Elmwood Avenue

Method of Investigation: Advance 3.25" hollow-stem tubes to depth of boring. Set 2-inch well at total depth of boring.

Project No.: e1605
Project Manager: Eric Betzold

Drilling Co.: Trec Environmental
Driller: Jim and Mark
Drill Rig: Geoprobe 6620DT

Weather: 40 F Rain

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows/6"	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-4	N/A: Well Completed with Geoprobe drill rig	Flush mount road box (0-1')			
				Cement/Bentonite mix (1-2')			
	2	4-8					
4				Bentonite pellets (2-4')			
				2" sch. 40 PVC riser (0-6')			
	3	8-12					
8				2" sch. 40 PVC 0.10 slot screen (6-16')			
	4	12-16		#0 Sand (4-16')			
12							
				Bottom of screen 16' bg			
				Bottom of borehole 16' bg			
16							
20							
24							
30							

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Cement/Bentonite
Grout
Sand
Bentonite

Hazard Evaluations, Inc.	Hole No.: SB172/MW-11 Sheet 1 of 1	Date started: 2/2/18 Date Finished: 2/2/18

Client: MOD-PAC CORP

Location: 1801 Elmwood Avenue

Method of Investigation: Advance 3.25" hollow-stem tubes to depth of boring. Set 1-inch well at total depth of boring.

Project No.: e1605
Project Manager: Eric Betzold

Drilling Co.: SJB Services, INC.
Driller: Randy
Drill Rig: Geoprobe 6620DT

Weather: 15F Flurries

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows/6"	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-4		Flush mount road box (0-1')			
				Cement/Bentonite mix (1-2')			
	2	4-8		Bentonite pellets (2-3')			
4							
				1" sch. 40 PVC riser (0-5')			
	3	8-12					
8				1" sch. 40 PVC 0.10 slot screen (5-15')			
	4	12-16		#0 Sand (3-15')			
12							
				Bottom of screen 15' bg			
			N/A: Well Completed with Geoprobe drill rig	Bottom of borehole 15' bg			
16							
20							
24							
30							

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Cement/Bentonite
Grout
Sand
Bentonite

Hazard Evaluations, Inc.	Hole No.: SB173/MW-12 Sheet 1 of 1	Date started: 2/2/18 Date Finished: 2/2/18

Client: MOD-PAC CORP

Location: 1801 Elmwood Avenue

Method of Investigation: Advance 3.25" hollow-stem tubes to depth of boring. Set 1-inch well at total depth of boring.

Project No.: e1605
Project Manager: Eric Betzold

Drilling Co.: SJB Services, INC.
Driller: Randy
Drill Rig: Geoprobe 6620DT

Weather: 15F Flurries

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows/6"	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-4		Flush mount road box (0-1')			
				Cement/Bentonite mix (1-2')			
	2	4-8		Bentonite pellets (2-3')			
4							
				1" sch. 40 PVC riser (0-5')			
	3	8-12					
8				1" sch. 40 PVC 0.10 slot screen (5-15')			
	4	12-16		#0 Sand (3-15')			
12							
				Bottom of screen 15' bg			
			N/A: Well Completed with Geoprobe drill rig	Bottom of borehole 15' bg			
16							
20							
24							
30							

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Cement/Bentonite
Grout
Sand
Bentonite

Hazard Evaluations, Inc.	Hole No.: SB175/MW-13 Sheet 1 of 1	Date started: 2/2/18 Date Finished: 2/2/18

Client: MOD-PAC CORP

Location: 1801 Elmwood Avenue

Method of Investigation: Advance 3.25" hollow-stem tubes to depth of boring. Set 1-inch well at total depth of boring.

Project No.: e1605
Project Manager: Eric Betzold

Drilling Co.: SJB Services, INC.
Driller: Randy
Drill Rig: Geoprobe 6620DT

Weather: 15F Flurries

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows/6"	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-4		Flush mount road box (0-1')			
				Cement/Bentonite mix (1-2')			
	2	4-8		Bentonite pellets (2-3')			
4							
				1" sch. 40 PVC riser (0-5')			
	3	8-12					
8				1" sch. 40 PVC 0.10 slot screen (5-15')			
	4	12-16		#0 Sand (3-15')			
12							
				Bottom of screen 15' bg			
			N/A: Well Completed with Geoprobe drill rig	Bottom of borehole 15' bg			
16							
20							
24							
30							

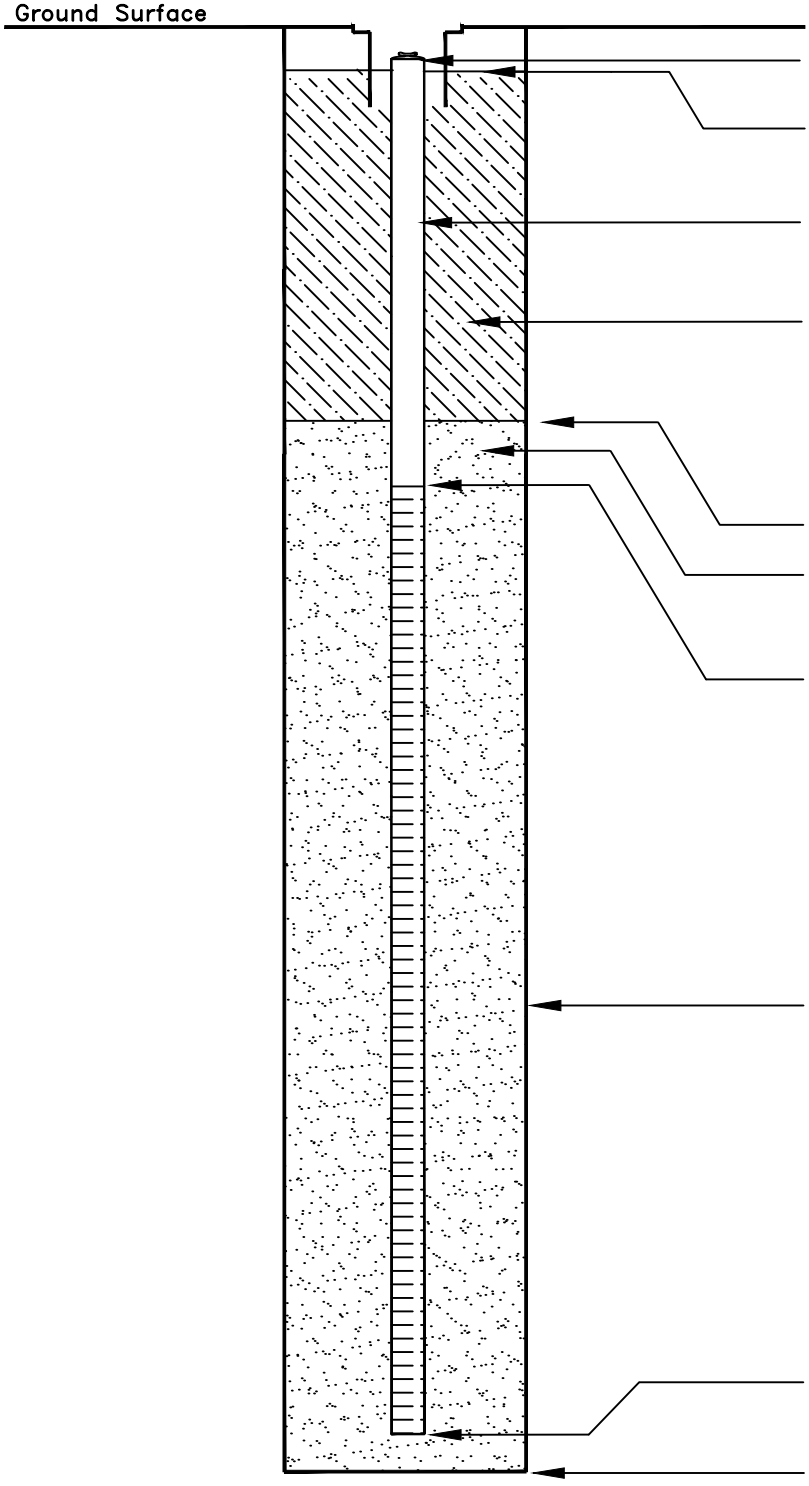
Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Cement/Bentonite
Grout
Sand
Bentonite

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT LOCATION:	MOD-PAC CORP. - 1801 ELMWOOD AVENUE, BUFFALO, NY	PROJECT NUMBER:	15.017
WELL TYPE:	TEMPORARY GROUNDWATER MONITORING WELL	WELL NUMBER:	MW-16
CONSTRUCTION DATE:	04-15-2026	SUPERVISED BY:	MARY SZUSTAK
DRILLING COMPANY:	MATRIX ENVIRONMENTAL TECHNOLOGIES INC.	DRILLERS:	RICH REAGAN
DRILL RIG MODEL:	GEOPROBE 7822DT		NICK SHERMAN



REFERENCE ELEVATION: 600.00 feet

TOP OF PRIMARY SEAL: 599.99 feet

TYPE OF RISER: 1 in SCH 40 PVC

TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK: 596.34 feet

TYPE OF FILTER PACK: #00 Silica Sand

TOP OF SCREEN: 594.32 feet

TYPE OF SCREEN: 1 in ID .010 slot SCH 40 PVC

DIAMETER OF BOREHOLE: 3.25 in

BOTTOM OF SCREEN: 584.32 feet

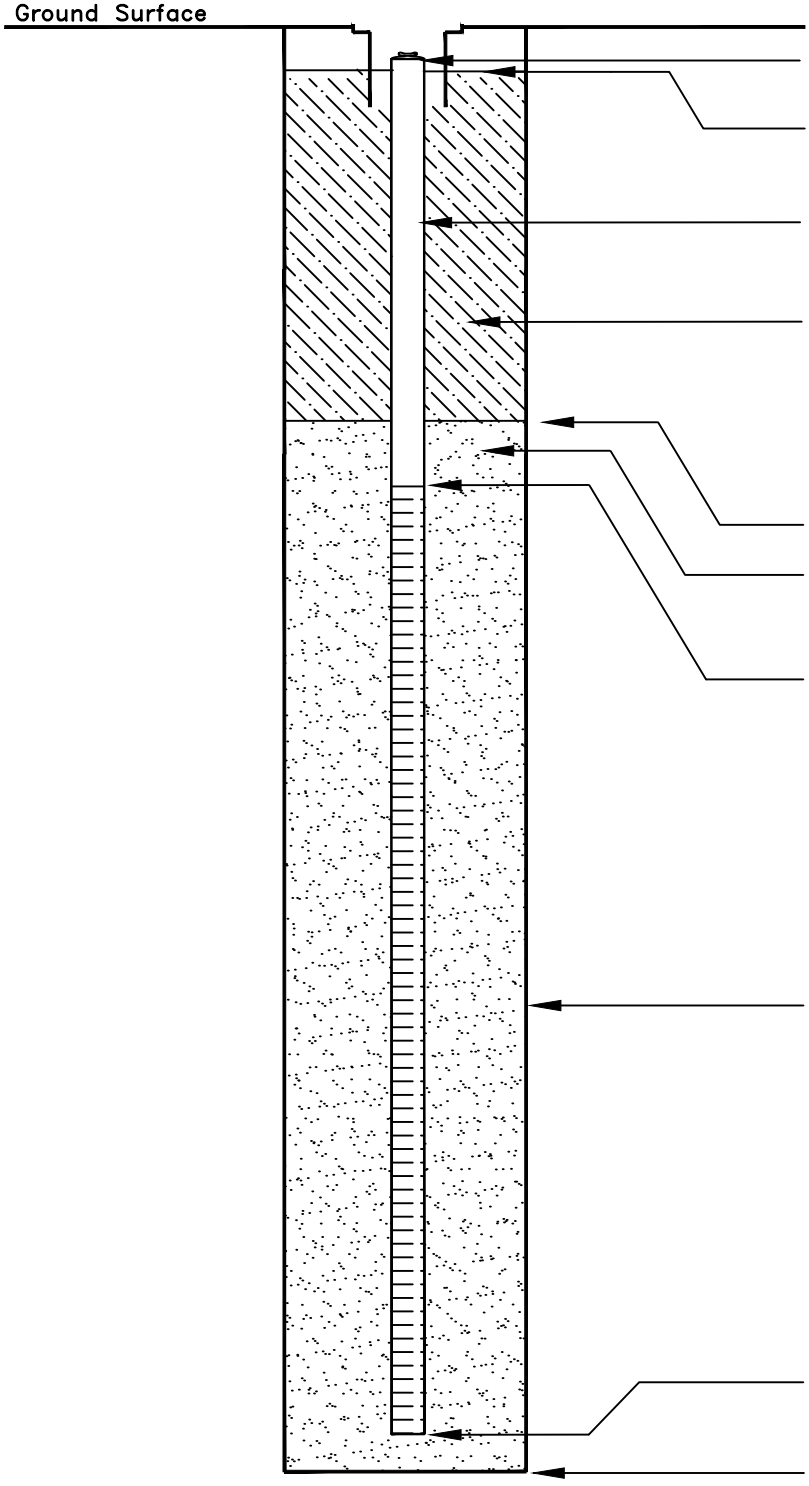
BOTTOM OF BOREHOLE: 584.31 feet

NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT LOCATION:	MOD-PAC CORP. - 1801 ELMWOOD AVENUE, BUFFALO, NY	PROJECT NUMBER:	15.017
WELL TYPE:	TEMPORARY GROUNDWATER MONITORING WELL	WELL NUMBER:	MW-17
CONSTRUCTION DATE:	04-15-2026	SUPERVISED BY:	MARY SZUSTAK
DRILLING COMPANY:	MATRIX ENVIRONMENTAL TECHNOLOGIES INC.	DRILLERS:	RICH REAGAN
DRILL RIG MODEL:	GEOPROBE 7822DT		NICK SHERMAN



REFERENCE ELEVATION: 599.81 feet

TOP OF PRIMARY SEAL: 599.80 feet

TYPE OF RISER: 1 in SCH 40 PVC

TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK: 596.00 feet

TYPE OF FILTER PACK: #00 Silica Sand

TOP OF SCREEN: 593.95 feet

TYPE OF SCREEN: 1 in ID .010 slot SCH 40 PVC

DIAMETER OF BOREHOLE: 3.25 in

BOTTOM OF SCREEN: 583.95 feet

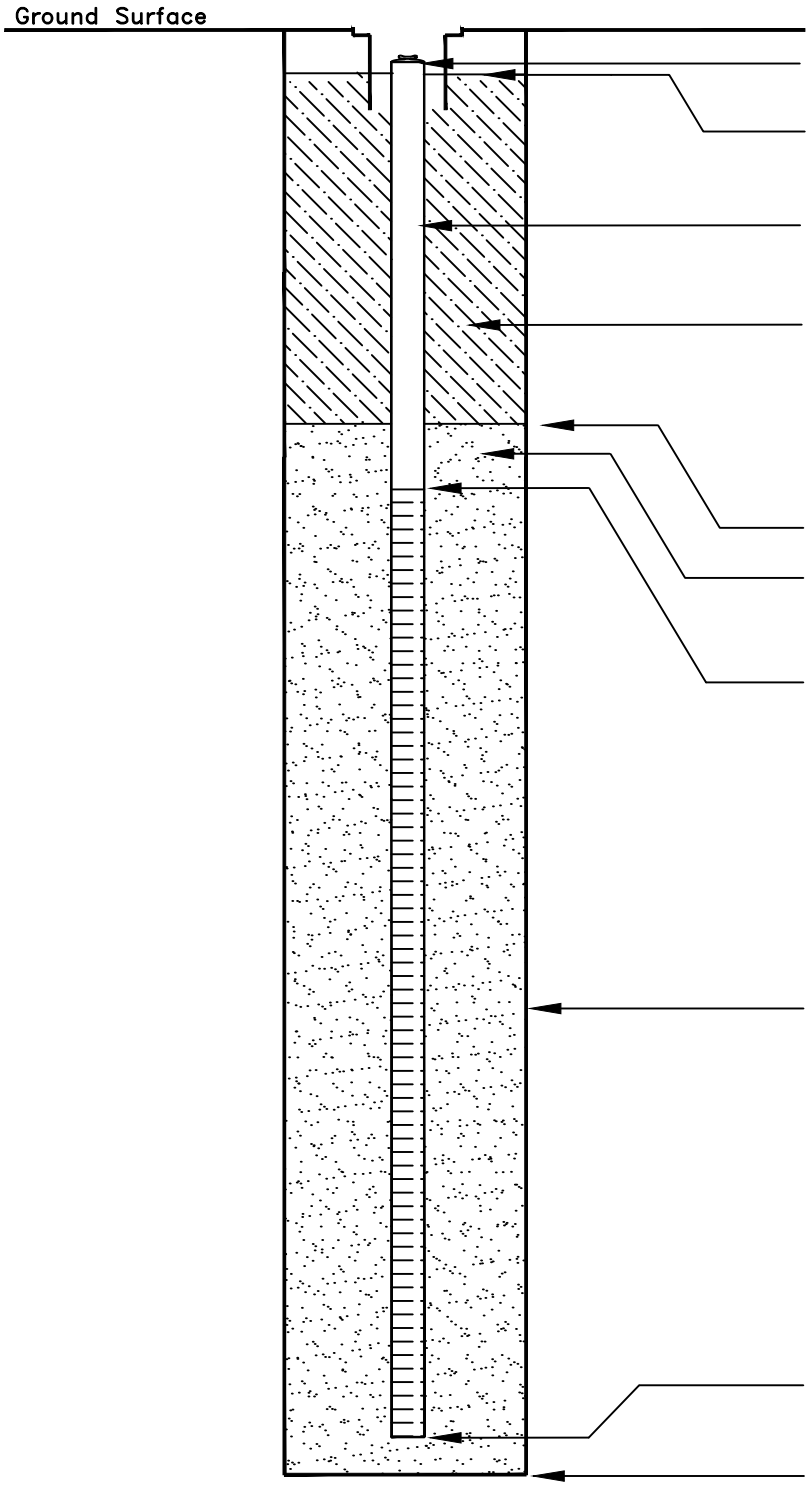
BOTTOM OF BOREHOLE: 583.94 feet

NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT LOCATION:	MOD-PAC CORP. - 1801 ELMWOOD AVENUE, BUFFALO, NY	PROJECT NUMBER:	15.017
WELL TYPE:	TEMPORARY GROUNDWATER MONITORING WELL	WELL NUMBER:	MW-18
CONSTRUCTION DATE:	04-15-2026	SUPERVISED BY:	MARY SZUSTAK
DRILLING COMPANY:	MATRIX ENVIRONMENTAL TECHNOLOGIES INC.	DRILLERS:	RICH REAGAN
DRILL RIG MODEL:	GEOPROBE 7822DT		NICK SHERMAN



REFERENCE ELEVATION: 600.80 feet

TOP OF PRIMARY SEAL: 600.79 feet

TYPE OF RISER: 1 in SCH 40 PVC

TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK: 596.92 feet

TYPE OF FILTER PACK: #00 Silica Sand

TOP OF SCREEN: 594.71 feet

TYPE OF SCREEN: 1 in ID .010 slot SCH 40 PVC

DIAMETER OF BOREHOLE: 3.25 in

BOTTOM OF SCREEN: 584.71 feet

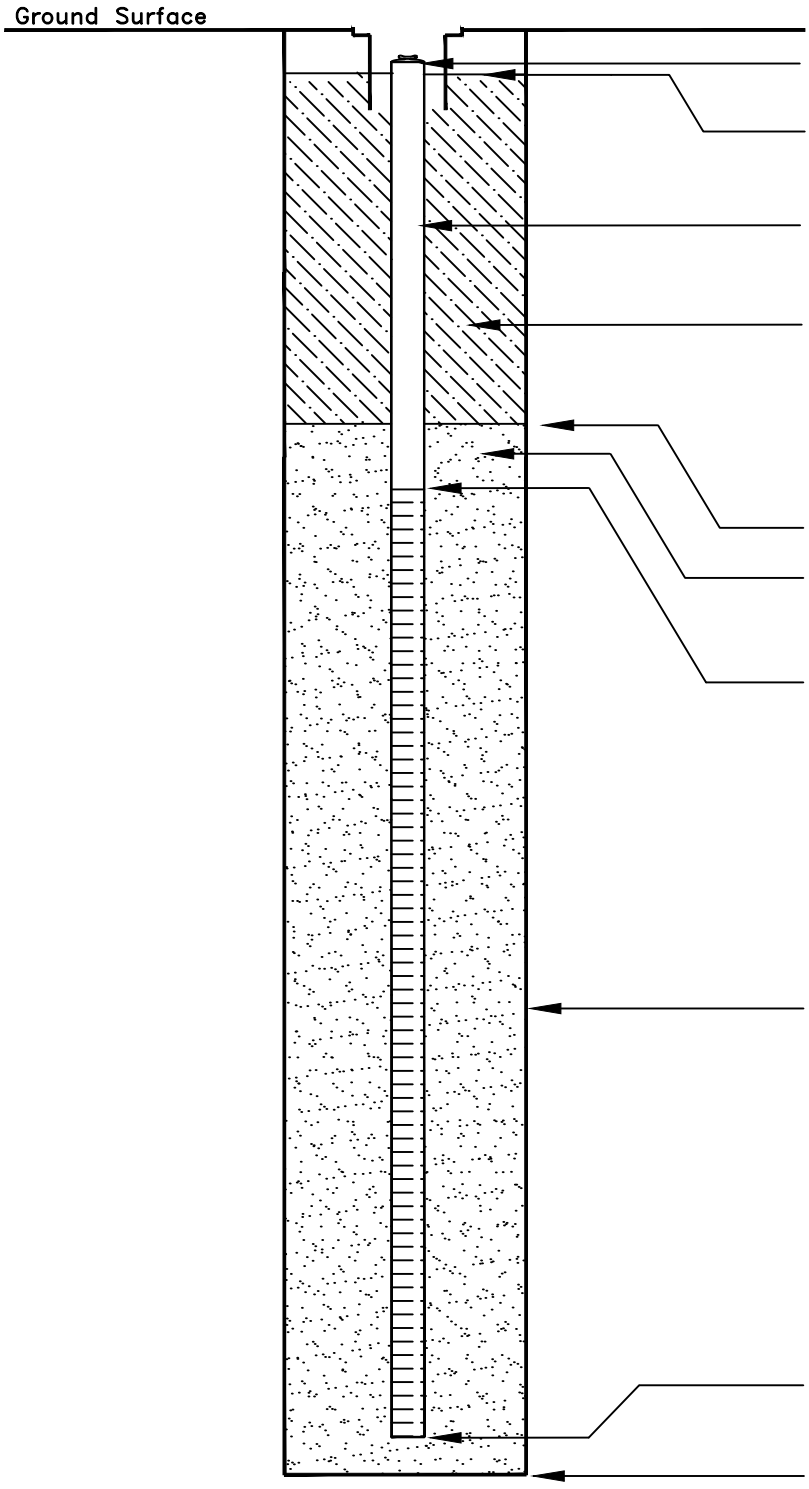
BOTTOM OF BOREHOLE: 584.70 feet

NOT TO SCALE

MATRIX Environmental Technologies

WELL CONSTRUCTION DETAIL

PROJECT LOCATION:	MOD-PAC CORP. - 1801 ELMWOOD AVENUE, BUFFALO, NY	PROJECT NUMBER:	15.017
WELL TYPE:	TEMPORARY GROUNDWATER MONITORING WELL	WELL NUMBER:	MW-19
CONSTRUCTION DATE:	04-15-2026	SUPERVISED BY:	MARY SZUSTAK
DRILLING COMPANY:	MATRIX ENVIRONMENTAL TECHNOLOGIES INC.	DRILLERS:	RICH REAGAN
DRILL RIG MODEL:	GEOPROBE 7822DT		NICK SHERMAN



REFERENCE ELEVATION: 600.71 feet

TOP OF PRIMARY SEAL: 600.70 feet

TYPE OF RISER: 1 in SCH 40 PVC

TYPE OF SEAL: Hydrated bentonite

TOP OF FILTER PACK: 596.97 feet

TYPE OF FILTER PACK: #00 Silica Sand

TOP OF SCREEN: 594.58 feet

TYPE OF SCREEN: 1 in ID .010 slot SCH 40 PVC

DIAMETER OF BOREHOLE: 3.25 in

BOTTOM OF SCREEN: 584.58 feet

BOTTOM OF BOREHOLE: 584.57 feet

NOT TO SCALE

APPENDIX B

Field Sheet Templates

Injection Data Summary Sheet

Date:		**Pipe Diam (in):**	
Site Location:		**Fluid Injected:**	

Start Time	End Time	Depth (ft bgs)	Flowrate (gpm)	Injection Pressure (psi)	Solution Injected (gal)

INJECTION MONITORING DATA

Well	Date	Time	DTW (ft.)	DO	ORP	pH	Temp	Conductivity	Turbidity	NOTES
Well	Date	Time	DTW (ft.)	DO	ORP	pH	Temp	Conductivity	Turbidity	NOTES
Well	Date	Time	DTW (ft.)	DO	ORP	pH	Temp	Conductivity	Turbidity	NOTES