PERIODIC REVIEW REPORT 2024

COVERING PERIOD JANUARY 1, 2024 – MARCH 31, 2025*

SOLVENT CHEMICAL SITE
NIAGARA FALLS, NEW YORK
SITE # 9-32-096

Prepared for:

Solvent Chemical Site
3163 Buffalo Avenue
Niagara Falls, New York

Prepared by:

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*Typical reporting period is April 1 to March 31 of sequential calendar years and will be used for all subsequent Periodic Review Reports for this site.

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1.0 INTRODUCTION

This Periodic Review Report (PRR) documents activities conducted from January 1, 2024 to March 31, 2025 at the Solvent Chemical Site (Site), located at 3163 Buffalo Avenue, Niagara Falls, New York (refer to Figure 1). This PRR covers a 15-month period, and includes three specific site monitoring/sampling events:

1) March 2024
2) September 2024, and
3) March 2025.

Future PRRs will follow the New York State Department of Environmental Conservation (NYSDEC)-preferred April 1-March 31 reporting period for each calendar year and will include two site monitoring/reporting events.

1.1 Site Summary

Remedial activities for the Site have addressed contamination associated with three areas:

1) the Solvent Chemical Property;
2) the Olin Hot Spot; and
3) the 18-inch Storm Sewer.

The operation and maintenance phase of Site remediation commenced on July 1, 2004. The primary Contaminants of Concern (CoCs) are benzene, chlorobenzene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene, and are present in on-site soils and ground water.

The Solvent Chemical Property is a former chemical manufacturing facility which included numerous buildings as well as aboveground and underground tanks. All structures associated with the chemical manufacturing facility have been razed. The Olin Hot Spot is situated west of the Solvent Chemical Property and east of Gill Creek. CoCs have been found in overburden (A-zone) and upper bedrock (B-zone) ground water. The former 18-inch diameter concrete storm drain originated from the Solvent Property and extended west across DuPont Drive, an electrical substation, and an Olin parking lot, and eventually discharged to Gill Creek. As part of the remediation of the Site, this storm drain was addressed by removal/abandonment in place. This portion of the remediation requires no further Operation and Maintenance (O&M) activities.

The staffing, monitoring, and schedule are summarized in table 1.1.

Table 1.1 Site Operations Staffing Summary

Entity	Responsibilities	Frequency	Other Notes
TRC Companies	Primary client representative, contacts with agencies, management of contractors, preparation of reports, design of system upgrades.	Daily monitoring, yearly reporting of precipitation, yearly reporting of remediation, monthly reporting of flow, quarterly reporting of permit compliance, semi-	

Table 1.1 Site Operations Staffing Summary			
Entity	Responsibilities	Frequency	Other Notes
		annual inspection and sampling.	
Everlasting Water, d.b.a. Camtech Plumbing	Primary subcontractor for on-site maintenance and repairs.	Daily checks, collection of quarterly samples, as-needed response.	Primary subcontractor
DGI Electric	Electrician for system repair	As-needed	Subcontractor
Cold Spring Environmental	Yearly flow calibration	Yearly	Subcontractor

1.2 Effectiveness of Remedial Program

The Site's cover system continues to provide containment of the contaminated soils onsite and was inspected during 2024 and 2025. The overburden collection system provides an inward gradient on the Solvent Property as demonstrated over the current review period. The operating flow rates continue to achieve capture of the B-zone consistent with the baseline hydraulic conditions included as Appendix A of the Performance Monitoring Plan (PMP) and approved by the NYSDEC. The Pre-Treatment system effluent data obtained over 2024 and 2025 shows that permit-required contaminant effluent limits continue to be achieved.

1.3 Compliance

There were no occurrences of non-compliance during this review period. NYSDEC was notified during periods of prolonged system downtime.

1.4 Recommendations

The components of the Solvent Chemical Site remediation continue to operate as designed. Given the consistent hydraulic capture of contaminants, Solvent does not propose to modify pumping rates at this time. Routine maintenance requirements will be continually reassessed and modified as necessary.

2.0 SITE OVERVIEW

A Site location map is provided as Figure 1.

2.1 Nature and Extent of Contamination Prior to Site Remediation

Remedial activities for the Solvent Chemical Site have addressed contamination associated with three areas: 1) the Solvent Chemical Property; 2) the Olin Hot Spot; and 3) the 18-inch Storm Sewer.

The Solvent Site is a former chemical manufacturing facility which included numerous buildings as well as above and below ground tanks. All structures associated with the chemical manufacturing facility have since been razed. The facility was constructed in the early 1940s for manufacturing of an aniline/urea-based chemical known as “Impregnite” during World War II and the Korean War. The Solvent Chemical Corporation manufactured chlorinated benzenes and zinc chlorides at the Site during the 1970s. Later in the Site’s history, drummed chemicals and wastes were stored onsite. The ground water remedial system onsite consists of a ground water interception trench in the overburden (A-zone) and recovery wells in the uppermost bedrock (B-zone).

The Hot Spot is situated west of the Solvent Site and east of Gill Creek. Contaminants of concern have been found in overburden (A-zone) and upper bedrock (B-zone) ground water in the vicinity of monitoring wells OBA-15A and OBA-3A. The ground water remedial system consists of a ground water interception trench in the overburden (A-zone) and recovery wells in the uppermost bedrock (B-zone).

The former 18-inch diameter concrete storm drain originated from the Solvent site property and extended west across DuPont Drive, an electrical substation, and an Olin parking lot, and eventually discharged to Gill Creek. As part of the remediation of the Solvent Site, this storm drain was addressed by removal/abandonment in place. This portion of the remediation requires no further O&M activities.

2.2 Chronology of Remedial Program

The Remedial Action selected by the NYSDEC and subsequently implemented at the Solvent Site and Hot Spot is presented in the ROD, dated December 1996. Construction of the remedy was substantially completed in 2001 and documented in the Final Engineering Report submitted to the NYSDEC in April 2003. The monitoring of the remedy conforms to the requirements set forth in the approved PMP submitted to NYSDEC in June 2004 and the approved O&M Plan submitted to NYSDEC in April 2003. The requirements outlined in the PMP fulfill Solvent Chemical’s obligations as defined by the “Consent Decree between the State of New York and Solvent Chemical Company, Inc., 83 CIV 1401 (C), (Administrative Consent Order)”, Site Number 9-32-096. The operation and maintenance phase of the remediation of the Solvent Chemical Site commenced on July 1, 2004.

2.3 Site Components

The Site remediation components being addressed under the Site Management phase of the Remedial Program include: (1) a series of ground water extraction wells which provide hydraulic control of overburden and shallow bedrock ground water; (2) a pre-treatment system which

removes most of the contaminant loading prior to discharge of extracted ground water to the Niagara Falls POTW; and (3) a site cover which prevents direct exposure to contaminated soils which remain in place.

Ground water is extracted from five overburden (A-zone) and seven shallow bedrock (B-zone) recovery wells. A site plan identifying well locations is provided as Figure 2. All recovery wells are located on the Solvent Chemical Property except for two wells (PW-3B and PW-4B), which extract groundwater from both the A-zone and B-zone and are located on the “Olin Hot Spot” portion of the Site. Ground water extracted from the recovery wells is pumped to an on-site building for pre-treatment. Pre-treatment operations include oil/water separation (PW-5B through PW-8B), air stripping, and granular activated carbon (GAC) polishing. GAC vessels were added to the treatment train at the request of Niagara Falls Water Board (NFWB) to address low concentrations of total benzene hexachlorides (BHCs). GAC polishing has been shown to be effective for BHC removal. Additional measures may be added to enhance performance as needed. Prior to October 2005, water from the A-zone wells was also routed through the oil/water separator. This was discontinued upon approval from NYSDEC in a letter dated October 18, 2005. Pre-treated effluent is discharged to the Niagara Falls municipal sewer system. Solvent laden air from the air stripper is treated by carbon adsorption. Once treated by adsorption, the air is recycled to the air stripper in a closed loop. Consequently, there is no atmospheric discharge. Carbon beds are regenerated by steam at selected time intervals (currently twice per week). During the steam regeneration process, steam combined with vapor phase solvent is purged from the carbon beds, condensed into liquid and separated into water and waste solvent. Waste solvent accumulates in a tank on-site and is periodically removed for disposal as a hazardous waste. The water is recirculated back to the air stripper for retreatment.

3.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

3.1 Performance

Figures 3, 4, and 5 present overburden water levels for the Solvent Chemical Property and document that the piezometric elevations of all the observation wells in the central portions of the Site are higher than the piezometric elevations encountered in the trench observation wells, indicating an overburden flow path towards the ground water extraction trench. Figures 6 through 11 present ground water contours for B-zone wells on the Solvent Chemical Site and Olin Hot Spot properties. The contours show that ground water extraction system pumping rates are achieving hydraulic capture. Figures 12 through 15 present graphical depictions of CoC concentrations versus time for the wells currently sampled. Additional discussions regarding these figures, where appropriate, are provided in the applicable sections of this report.

3.2 Effectiveness

Based on the figures presented, the extraction system is effectively maintaining hydraulic control in accordance with Appendix A of the PMP.

The Site's cover system is intact, based on inspections, effectively preventing direct exposure.

3.3 Protectiveness

The extraction system is preventing further migration. The Site's cover system continues to provide containment and protection from exposure.

4.0 IC/EC COMPLIANCE

4.1 Institutional Controls (ICs)

The Site has land use restrictions in place. A certification acknowledging that the controls are current is provided in the Institutional and Engineering Controls Certification Form.

4.2 Engineering Controls (ECs)

The following Engineering Controls (ECs) are in place and actively maintained: a cover system, access control (perimeter fence), and ground water containment.

Performance of the cover system and perimeter fencing is monitored semi-annually through visual inspections. The ground water containment system is actively monitored and maintained as described in Section 6 of this report. All engineering controls are functioning as designed, are effective and are protective. No changes are recommended at this time.

After all excavated materials were placed and compacted, a geotextile layer was laid (demarcation) prior to installing a clean soil cover over the entire Solvent Chemical Site. The clean soil cover consists of a minimum 12-inch thick layer of imported clean borrow material. Below the floor slab of the onsite OM&M building, a sub slab depressurization system (SSDS) was installed. The SSDS consists of gravel and PVC piping and allows for the maintenance of a negative pressure below the floor slab of the building. This negative pressure is induced by a fan located at the top of PVC piping (at the building roof line) and vents to the atmosphere above the northern side of the building.

5.0 MONITORING PLAN COMPLIANCE REPORT

The components of the Performance Monitoring Plan are presented in Table 5.1 below. The overburden layer is monitored with the A-Zone Wells. The shallow bedrock layer is monitored by the B-Zone Wells.

Depth to groundwater measurements at the Solvent Chemical Site collected in December 2014 ranged from 6.10 to 12.95 feet below top of well casing (BTOC) in the A-Zone (overburden wells) and 8.80 and 26.20 feet BTOC in the B-Zone (shallow bedrock wells).

Table 5.1: Components of Performance Monitoring Plan
Solvent Chemical Site
Niagara Falls, NY

Remedy Component	Performance Standard	Required Performance Monitoring Activity
Soil – Clean Soil Cover	Contain contaminated soils.	Inspect clean soil cover and pavement for erosion and/or other damage.
Overburden Ground Water – Control and Collection System	Control contaminated overburden groundwater.	Measure overburden ground water levels within and outside of ground water extraction trench to document inward hydraulic gradient.
Shallow Bedrock Ground Water – Control System	Control contaminated bedrock groundwater at the Solvent Site property and the Hot Spot.	Measure ground water levels within the B-zone with subsequent development of plots of the potentiometric surface to document hydraulic containment of contaminated ground water associated with the Solvent Site.
Ground Water – Quality Monitoring Program	Monitor and document offsite contaminant loadings within bedrock zones of concern.	Collection and analysis of B-zone and deeper ground water samples.
Treatment and Disposal of Extracted Ground Water	Comply with permit requirements.	Conduct effluent monitoring as required in discharge permit.

5.1 Site Cover Performance

Ground cover at the Site varies and includes a grassed area in the northern portion of the Site, a heavily vegetated area in the southern portion of the Site, a paved area along with a gravel access road, and an on-site treatment building.

5.1.1 Grassed and Vegetated Areas

Grass is still well established along the site's northern side, adjacent to Buffalo Avenue to just south of the treatment building. The vegetative growth covering the rest of the site is also still well established and there were no areas where growth was absent. Mowing is performed as described in the approved O&M plan.

On March 24, 2024, September 20, 2024, and March 11, 2025, visual inspections of the cover soil for areas of potential significant erosion were conducted. No evidence of areas experiencing significant erosion of the grassy and vegetated areas was noted during these inspections.

5.1.2 Paved Area and Gravel Roadway

Overall, the paved area and gravel roadway are still intact without any major cracks or areas of erosion. The gravel roadway is intact although noted as becoming overgrown with vegetation.

5.2 Overburden Ground Water Control and Collection System

Water level measurements were collected both within and outside of the ground water extraction trench. Figures 3 and 4 provide ground water piezometric surface elevations for the overburden observation wells on the Solvent site. As shown on these figures, the piezometric elevations of all the observation wells in the central portion of the Site are higher than the piezometric elevations encountered in the trench observation wells indicating an overburden flow path towards the ground water extraction trench.

5.3 Bedrock Ground Water Control System

Figures 6 through 11 present semi-annual water level contours for both the Solvent Site and Hotspot for 2024-25. The figures indicate that the B-zone pumping wells are achieving capture consistent with the baseline hydraulic conditions approved by NYSDEC, included as Appendix A of the PMP.

5.4 Summary of Ground Water Quality Monitoring Program

Bi-annual ground water sampling events occurred during March and September of 2024 and March 2025. A brief summary of each event is described in Section 5.4.1, 5.4.2, and 5.4.3respectively. Ground water sampling is conducted using passive diffusion bags (PDBs) as described in revised PMP, dated June 2004, and accepted by NYSDEC in a letter dated July 1, 2004.

5.4.1 1st Semi-Annual Groundwater Sampling Event (March 2024)

The 1st Semi-Annual sampling event of 2024 included 39 samples (including three duplicate samples) collected from PDBs that had been deployed in thirty-three monitoring/observation wells (nine A-zone wells, nineteen B-zone wells, three C-zone wells, and two CD-zone wells) during September 2023. Three PDBs were installed in the F-zone wells (MW-1F, MW-5F and MW-6F) on March 04, 2024.

The PDBs were retrieved on March 19 through 20, 2024 and samples for volatile organic compound analysis were collected and transported under chain of custody documentation to Eurofins and analyzed by Method 8260C.

5.4.2 2nd Semi-Annual Groundwater Sampling Event (September 2024)

The 2nd Semi-Annual sampling event of 2024 included 38 samples (including three duplicate samples) collected from PDBs that had been deployed in thirty-two monitoring/observation wells (eight A-zone wells, nineteen B-zone wells, three C-zone wells, and two CD-zone wells) during March 2024. Three PDBs were installed in the F-zone wells (MW-1F, MW-5F and MW-6F) on

September 13, 2024. A sample was not collected at OW-29A because there was an obstruction in the well.

The PDBs were retrieved on September 23 and 24, 2024, and samples for volatile organic compound analysis were collected and transported under chain of custody documentation to Eurofins and analyzed by Method 8260C.

During the well inspections, MW-6A was found to have an obstruction due to the tether. This obstruction could not be cleared at the time.

5.4.3 1st Semi-Annual Groundwater Sampling Event (March 2025)

The 1st Semi-Annual sampling event of 2025 included 38 samples (including three duplicate samples) collected from PDBs that had been deployed in thirty-three monitoring/observation wells (nine A-zone wells, twenty B-zone wells, three C-zone wells, and two CD-zone wells) during September 2024. PDBs were installed in three F-zone wells (MW-1F, MW-5F and MW-6F) on February 22, 2025.

The PDBs were retrieved on March 18 through 20, 2025 and samples for volatile organic compound analysis were collected and transported under chain of custody documentation to Eurofins and analyzed by Method 8260C.

Ground water sampling is conducted semi-annually as described in the SMP and the next round of ground water quality monitoring is scheduled for September 2025 and March 2026 as part of 2025-26 OM&M activities.

5.4.4 Sample Results

Tables 5.2, 5.3, and 5.4 present the analytical results for the March 2024, September 2024, and March 2025 ground water sampling events, respectively. Figures presenting ground water contaminant results for each monitoring/observation well were prepared after each sampling event. Figures 9 through 12 present graphical depictions of total CoC concentrations versus time for the observation/monitoring wells currently sampled at the Solvent and Hot Spot Sites.

5.4.5 Monitoring for NAPL

During the March and September 2024 and March 2025 ground water sampling events, after the PDB was removed and sampled, an oil/water interface probe was used to check for the presence of Non-Aqueous Phase Liquid (NAPL) at each of the wells. The presence or absence of NAPL was also evaluated at the wells that were not sampled.

During the March 2024 ground water sampling event, the presence of NAPL was detected in OW-11A, OW-11B, OW-13B, and MW-6C. However, no measurable product thickness was found. No additional groundwater monitoring wells had evidence of NAPL on the tip of the interface probe.

During the September 2024 ground water sampling event, NAPL was detected in OW-11A, OW-11B, OW-13B, MW-2B, MW-6C, and PW-1B, but, as in March 2024, no measurable product thickness was found. No additional groundwater monitoring wells had evidence of NAPL on the tip of the interface probe.

During the March 2025 ground water sampling event, NAPL was detected in MW-2B, MW-6C, OW-11A, OW-11B, OW-13B, and PW-1B. In MW-6C, a NAPL thickness of 0.5 feet was measured. In OW-11A, a NAPL thickness of 0.7 feet was measured. In OW-13B, a NAPL thickness of 0.1 feet was measured. No measurable product thickness was found for OW-11B, MW-2B, and PW-1B. No additional groundwater monitoring wells had evidence of NAPL on the tip of the interface probe.

5.5 Pre-treatment System Discharge

The Site's pre-treatment system discharge concentrations during the 2024 and 2025 reporting period were below the limits required by the City of Niagara Falls, Significant Industrial User Discharge Permit Number 55.

6.0 OPERATION, MAINTENANCE & MONITORING (O, M & M) PLAN COMPLIANCE REPORT

6.1 Components of O, M & M Plan

O, M & M Reports are submitted to NYSDEC annually. The reports include the results of all-environmental monitoring, findings of all site inspections, and details of the system maintenance activities performed at the Site during each semi-annual period. The maintenance schedule for the Site's pre-treatment system is presented in Table 9 of the OM&M Plan. NYSDEC is notified of any unscheduled maintenance that requires the system to be shut down for a period of more than three consecutive days or when down five or more total days within a 30-day period. The notification includes a plan and schedule for restoring system operations. A system shutdown occurs annually for approximately one to two weeks to deal with standard maintenance. The activities performed during the intermittent shutdown for this performance review occurred over the period of October 28 through November 8, 2024. NYSDEC was notified prior to system shutdown.

Waste containing site related chemicals are properly stored on site prior to transport to an off-site facility for disposal in accordance with all applicable Federal and State of New York regulations. Disposal waste manifest documentation has been provided in previous reports, as applicable. Transport and disposal of remedial waste was conducted during 2024-2025 reporting period.

Current and previous product and GAC removal and disposal was conducted as follows:

- On January 16, 2025, approximately 5,000 pounds of liquid-phase GAC in four sacks were transported to Big Sandy Plant in South Catlettsburg, Kentucky.
- On October 17, 2024, approximately 2,640 pounds of vapor-phase GAC in two sacks were transported to Big Sandy Plant in South Catlettsburg, Kentucky.
- On April 19, 2024, approximately 5,000 pounds of liquid-phase GAC in four sacks were transported to Big Sandy Plant in South Catlettsburg, Kentucky.
- On January 27, 2023, approximately 175 gallons of product was removed from the onsite above ground storage tank (AST) and transported to Chemtron Corporation of Avon, Ohio.
- On February 10, 2022, approximately 175 gallons of product was removed from the onsite above ground storage tank (AST) and transported to Chemtron Corporation of Avon, Ohio.
- On August 4, 2020, approximately 325 gallons of product was removed from the onsite above ground storage tank (AST) and transported to Chemtron Corporation of Avon, Ohio.
- On June 27, 2018, approximately 240 gallons of product was removed from the onsite AST and transported to Chemtron Corporation of Avon, Ohio.
- March 9, 2016, six super sacks containing spent carbon from the regenerable carbon unit were transported by Nortru LLC to the Petro-Chem Processing Group facility in Detroit, Michigan

- On November 9, 2016, approximately 350 gallons of product was removed from the onsite AST and transported to Chemtron Corporation of Avon, Ohio.

- On January 9, 2015, approximately 272 gallons of product was removed from the onsite AST and transported to Chemtron Corporation of Avon, Ohio. Disposal documentation is provided in Appendix C of the 1st Quarter 2015 OM&M Report.

- On July 9, 2013, approximately 300 gallons of product was removed from the onsite AST for transport and disposal at an approved facility. Disposal documentation was provided in Appendix C of the 3rd Quarter 2013 OM&M Report.

- On September 4, 2012, 107 gallons of product was removed from the onsite AST for transport to an approved disposal facility. Documentation of the transport and disposal was included in Appendix C of the 3rd Quarter, 2012 OM&M Report.

- On August 2, 2011, approximately 150 gallons of product was transported by the Environmental Service Group, Inc. to Chemtron Corporation in Avon, Ohio. Documentation of this transport and disposal was included in Appendix C of the 3rd Quarter 2011 OM&M Report.

- During the 1st Quarter 2010, 488 gallons of recovered product was removed from the onsite AST for transport to an approved disposal facility on January 13, 2010. Documentation of the transport and disposal was included in Appendix C of the 1st Quarter, 2010 OM&M Report.

- On December 17, 2009, eleven drums of contaminated debris (pump parts, PPE) were transported to the Michigan Disposal Waste Treatment Plant in Belleville, MI. Documentation of the transport and disposal was included in Appendix C of the 4th Quarter 2009 OM&M Report.

- On September 26, 2007, eleven drums of carbon from the regenerable carbon unit were transported to Wayne Disposal, Inc. Site 2 Landfill located in Belleville, MI.

- On January 20, 2006, approximately 500 gallons of liquid waste were removed from the onsite AST and transported to Chemtron Corporation. Documentation of this transport and disposal activity was included in the 1st Quarter 2006 OM&M Report dated July 10, 2006.

- In July 2004, 90 gallons of product were transported by Frank's Vacuum Truck Service of Niagara Falls, New York to Chemtron Corporation of Avon, Ohio. Documentation of this transport and disposal activity was included in the 3rd Quarter 2004 OM&M Report dated November 17, 2004.

6.2 Summary of O&M Completed During Reporting Period

Routine operation and maintenance activities include regular site visits by Camtech Plumbing and Mechanical of Niagara Falls, New York (Camtech). Non-scheduled equipment repairs are made as soon as practicable as they occur. Major scheduled maintenance activities require a system shutdown, and this shutdown is scheduled annually. Non-scheduled maintenance (repairs) performed from April 1, 2024 to April 15, 2025 are summarized as follows:

Date	Maintenance Action Taken
4/2/24	Maintained pump for PW-4B.
4/11/24	Maintained pump and motor for PW-8B.
4/19/24	Carbon changeout.
5/21/24	Maintained pump for PW-8B.
5/24/24	Replaced boiler pump.
5/29/24	Maintained pump for PW-6B.
6/5/24	Maintained carbon bed.
6/11/24	Maintained pump for PW-6B.
6/25/24	GAC backwash rental tank installation.
7/11/24	Maintained pump for PW-5B.
7/24/24	Maintained pump and motor for PW-6C.
8/1/24	Installed permanent GAC backwash tank.
8/15/24	Maintained steam boiler pump.
8/23/24	Replaced backwash pump.
9/17/24	Maintained pump for PW-5B.
9/18/24	Maintained pump for PW-8B.
10/1/24	Maintained boiler with new elements.
10/21/24	Maintained pump for PW-6B.
10/28/24	Shutdown maintenance begins. New SSDS fan installed.
11/8/24	Shutdown maintenance concluded.
11/19/24	Maintained pump for PW-4B.
12/6/24	Maintained motor for PW-7B.
1/24/25	Maintained pump for PW-5B.
1/27/25	Replaced sample refrigerator.
2/11/25	Maintained pump for PW-3B.
3/4/25	Maintained motor for PW-8B.
3/10/25	Maintained boiler interior panel.
3/21/25	Maintained PW-4B. Identified fault with well.
3/25/25	Investigated well and riser for PW-4B. Removed sand.
3/27/25	Replaced pump for PW-4B.
4/21/25*	Completed restoration of PW-4B. See Appendix G for more detail.

*This date is beyond the limits of this PRR reporting period. Information contained in the referenced Appendix describes and depicts observations and repair activities conducted in April 2025 to restore groundwater recovery operations at PW-4B and to fully document its restoration.

6.3 Pretreatment System

From April 2024 to March 2025, the system treated approximately 19.18 million gallons of ground water. Daily ground water pumping volumes and average monthly flow rates for this reporting period are provided in Appendix A. The system is performing as designed and no violations were noted.

Ground water levels were measured on the week of March 19, the week of September 18, 2024, and March 17, 2025. The wells inspected and gauged are:

- MW-1A
- MW-1B
- MW-1C
- MW-1CD

- MW-1F
- MW-2A
- MW-2B
- MW-4B
- MW-4C
- MW-5A
- MW-5B
- MW-5C
- MW-5CD
- MW-5F
- MW-6A
- MW-6B
- MW-6C
- MW-6CD
- MW-6F
- OW- 10A
- OW-10B
- OW-11A
- OW-11B
- OW-12A
- OW-12B
- OW-13A
- OW-13B
- OW-14A
- OW-14B
- OW-15A
- OW-15B
- OW-16A
- OW-17A
- OW-18A
- OW-18B
- OW-19A
- OW-1A
- OW-1B
- OW-20A
- OW-21A
- OW-22A
- OW-22B
- OW-23B
- OW-24B
- OW-25B
- OW-26A
- OW-26B
- OW-27A
- OW-27B
- OW-28B
- OW-29A
- OW-29B
- OW-2B
- OW-30B
- OW-31B
- OW-32B
- OW-33B
- OW-3B
- OW-4B
- OW-5A
- OW-5B
- OW-6A
- OW-6B
- OW-7A
- OW-7B
- OW-8A
- OW-8B
- OW-9A
- PW-1B
- PW-2B
- PW-3B
- PW-4B
- PW-5B
- PW-6B
- PW-7B
- PW-8B
- PZ-01
- PZ-02
- PZ-03
- PZ-04
- TW-1A
- TW-2A
- TW-3A
- TW-4A
- TW-5A

Ground water depths and the corresponding ground water elevations (referenced to Benchmark J20, Niagara Falls City Datum) for the 1st and 2nd Semi-Annual events for 2024 and 1st Semi-annual event for 2025 are provided in Tables 6.1, 6.2, and 6.3, respectively. As hydraulic control in accordance with the SMP is shown, the groundwater extraction system is performing as designed.

6.4 Site Cover

The ground cover at the Site is inspected during semi-annual sampling events, and areas of significant erosion, if any, are reported and repaired immediately. To date, the vegetation on-site is well established, and erosion is minimal based on observations. Vegetated areas are mowed to prevent the establishment of any deep rooting plants. Paved areas are also inspected, and any cracks or holes are patched as needed.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with Site Management Plans

The requirements outlined in the SMP were met over this performance review period.

7.2 Performance and Effectiveness of the Remedy

The components of the Solvent Chemical Site remediation continue to operate as designed. Based on the consistent hydraulic capture of contaminants, this EC continues to perform properly and remains effective. Therefore, Solvent does not propose to modify recovery well pumping rates at this time. Pre-treatment system effluent data shows that permit-required contaminant effluent limits continue to be achieved. The cover system and site access control remain intact with minor maintenance and continue to prevent exposure to contaminated soil. These ECs are also continuing to perform properly and remain effective.

ICs remain in effect for the Solvent Chemical property.

Based on a review of the information generated from the operation, maintenance, and monitoring performed for the Solvent Chemical Site, the remedy continues to be protective of public health and the environment and is compliant with the applicable decision document.

7.3 Future PRR and other Submittals

PRRs for this Site will be submitted annually with the next planned for April 2026 covering reporting period April 1, 2025 to March 31, 2026.

TABLES

TABLE 5.2 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
March 2024

Location	Date Sampled	Contaminants of Concern						Remaining Detected Analytes																																	
		Benzene	Chlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichloropropane	2,2-Dichloropropane	2-Butanone (MEK)	2-Chloroethyl vinyl ether	2-Hexanone	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Effluent Limit*	1	5	5	3	3	3	5	5	5	1	5	5	N/A	5	0.04	5	0.04	0.0006	0.6	1	5	5	5	50	N/A	50	N/A	50	5	5	50	50	5	120	5	5	7	5	5	0.4	50
A Zone																																									
MW-02A	03/20/2024	**120**	**5,400**	**66 J**	**2,100**	**530**	**2,900**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
MW-05A	03/19/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-09A	03/19/2024	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**530**	200 U	200 U
OW-12A	03/19/2024	**110**	**6,500**	**130**	**10,000**	**1,700**	**6,700**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
OW-15A	03/19/2024	1.0 U	**12**	**4.1**	**27**	**7.8**	**9.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.47 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.98 J**	1.0 U	1.0 U
OW-16A	03/19/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-18A	03/20/2024	**380 J**	**14,000**	500 U	**3,600**	**1,500**	**12,000**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-22A	03/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-29A	03/20/2024	100 U	**3,100**	**650**	**6,100**	**1,400**	**3,800**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**200**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
B Zone																																									
MW-01B	03/19/2024	80 U	**4,000**	**41 J**	**240**	**340**	**1,600**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U
MW-04B	03/19/2024	**210**	**1,600**	**410**	**1,600**	**620**	**1,400**	80 U	80 U	**73 J**	80 U	80 U	80 U	80 U	**51 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**3,100**	80 U	80 U
MW-06B	03/20/2024	**160**	**2,000**	**130**	**2,900**	**1,100**	**2,000**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U
OW-05B	03/20/2024	**46 J**	**160**	**140**	**84 J**	**82 J**	**120**	100 U	100 U	**180**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 UJ	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**2,100**	100 U	100 U
DUP OW-05B	03/20/2024	**44 J**	**160**	**140**	**85 J**	**79 J**	**120**	100 U	100 U	**170**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**2,100**	100 U	100 U
OW-06B	03/20/2024	**88**	**680**	**460**	**380**	**220**	**480**	80 U	80 U	**47 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**3,100**	80 U	80 U
OW-07B	03/20/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.9**	**1.5**	**1.5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.37 J**	1.0 U	1.0 U
OW-08B	03/20/2024	1.0 U	1.0 U	**0.62 J**	**1.3**	**1.7**	**1.7**	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**49**	1.0 U	1.0 U
OW-10B	03/20/2024	**8.3 J**	**59**	**820**	**62**	**250**	**220**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**250**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
OW-11B	03/20/2024	**3,300**	**8,600**	**2,800**	**19,000**	**4,800**	**15,000**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**950**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 UJ	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
DUP OW-11B	03/20/2024	**3,300**	**8,600**	**2,600**	**19,000**	**4,600**	**14,000**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	**880**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-12B	03/19/2024	**260**	**3,500**	**27**	**1,500**	**880**	**2,200**	4.0 U	4.0 U	4.0 U	4.0 U	**1.8 J**	4.0 U	4.0 U	**2.9 J**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	20 U	20 U	20 U	40 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**200**	4.0 U	4.0 U
OW-13B	03/19/2024	**720**	**5,700**	**3,300**	**5,000**	**1,500**	**5,500**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**200**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**300**	200 U	200 U
DUP OW-13B	03/19/2024	**720**	**5,800**	**3,400**	**5,100**	**1,600**	**5,800**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**210**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**340**	200 U	200 U
OW-14B	03/20/2024	100 U	**1,400**	**450**	**1,900**	**1,100**	**4,100**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**130**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
OW-15B	03/20/2024	**38**	**330**	**4.5 J**	**44**	**66**	**110**	10 U	10 U	**2.3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**360**	10 U	10 U
OW-22B	03/20/2024	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	**130**	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	400 U	200 U	200 U	200 U	400 U	40 U	40 U	40 U	40 UJ	40 U	40 U	40 UJ	40 U	**18 J**	40 UJ	**850**	40 U	40 U
OW-26B	03/19/2024	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.9 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	10 U	10 U	10 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**6.9**	2.0 U	2.0 U
OW-27B	03/19/2024	**82**	**590**	**19 J**	**380**	**200**	**480**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**120**	20 U	20 U
OW-28B	03/19/2024	130 U	**140**	**150**	**110 J**	130 U	**130**	130 U	130 U	**220**	130 U	130 U	130 U	130 U	**51 J**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**2,900**	130 U	130 U
OW-29B	03/19/2024	**280**	**2,900**	**550**	**1,500**	**590**	**1,800**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**87 J**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**1,300**	130 U	130 U
OW-30B	03/19/2024	1.0 U	**8.4**	1.0 U	**2.2**	**7.5**	**8.8**	1.0 U	1.0 U	1.0 U	1.0 U	**3.3**	1.0 U	1.0 U	**0.65 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.6 J**	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.5**	1.0 U	1.0 U
C Zone																																									
MW-01C	03/19/2024	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**2,000**	50 U	50 U
MW-04C	03/19/2024	**3,400**	**4,600**	400 U	**670**	400 U	**390 J**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 UJ	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**27,000**	400 U	400 U
MW-05C	03/19/2024	**130**	**2,900**	20 U	**590**	**870**	**1,900**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
CD Zone																																									
MW-01CD	03/19/2024	**4,800**	**43,000**	800 U	**8,800**	**1,000**	**5,800**	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	8,000 U	4,000 U	4,000 U	4,000 U	8,000 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	**9,700**	800 U	800 U
MW-05CD	03/19/2024	**26**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**870**	10 U	10 U
F Zone																																									
MW-01F	03/19/2024	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**33**	20 U	20 U
MW-05F	03/19/2024	**49**	**280**	25 U	**300**	**25**	**110**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	130 U	130 U	130 U	250 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**68**	25 U	25 U
MW-06F	03/20/2024	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	**41 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**300**	10 U	10 U

Note:

All units in ug/l.

QUALIFIERS

J: Estimated value.

J-: Estimated value; bias low.

N/A: Not available.

NS: Not Sampled

UJ: Estimated non-detect.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 5.2 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
March 2024

Location	Date Sampled	Remaining Detected Analytes																								
		Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	2-Chlorotoluene	o-Xylene	4-Chlorotoluene	4-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
	Effluent Limit*	5	5	0.5	5	5	10	5	5	5	10	5	5	5	5	5	5	5	5	5	5	0.4	5	5	N/A	2
A Zone																										
MW-02A	03/20/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
MW-05A	03/19/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-09A	03/19/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**11,000**	200 U	200 U	200 U	**470**	200 U	1,000 U	200 U
OW-12A	03/19/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
OW-15A	03/19/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	**1.3**	1.0 U	5.0 U	1.0 U
OW-16A	03/19/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-18A	03/20/2024	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-22A	03/20/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-29A	03/20/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
B Zone																										
MW-01B	03/19/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	400 U	80 U
MW-04B	03/19/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**1,700**	80 U	**120**	80 U	**1,700**	80 U	400 U	**1,500**
MW-06B	03/20/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	400 U	80 U
OW-05B	03/20/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**2,300**	100 U	100 U	100 U	**5,000**	100 UJ	500 U	**170**
DUP OW-05B	03/20/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**2,400**	100 U	100 U	100 U	**5,000**	100 U	500 U	**160**
OW-06B	03/20/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**730**	80 U	**77 J**	80 U	**1,500**	80 U	400 U	**560**
OW-07B	03/20/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**68**	1.0 U	**6.3**	1.0 U	**69**	1.0 U	5.0 U	**1.6**
OW-08B	03/20/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.67 J**	1.0 U	1.0 U	1.0 U	**21**	1.0 U	5.0 U	1.0 U
OW-10B	03/20/2024	10 U	10 U	20 UJ	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U	50 U	10 U
OW-11B	03/20/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	2,000 U	400 U
DUP OW-11B	03/20/2024	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-12B	03/19/2024	4.0 U	4.0 U	8.0 U	4.0 U	8.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	**1.9 J**	4.0 U	**11**	4.0 U	**2.6 J**	4.0 U	20 U	**370**
OW-13B	03/19/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1,000 U	**1,500**
DUP OW-13B	03/19/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1,000 U	**1,300**
OW-14B	03/20/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
OW-15B	03/20/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**100**	10 U	10 U	10 U	**81**	10 U	50 U	**110**
OW-22B	03/20/2024	40 U	40 U	80 UJ	40 U	80 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	**1,200**	40 U	40 U	40 U	**2,100 J-**	40 U	200 U	40 U
OW-26B	03/19/2024	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**95**	2.0 U	2.0 U	2.0 U	**7.6**	2.0 U	10 U	2.0 U
OW-27B	03/19/2024	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**300**	20 U	20 U	20 U	**36**	20 U	100 U	**61**
OW-28B	03/19/2024	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**2,000**	130 U	130 U	130 U	**4,900**	130 U	630 U	**370**
OW-29B	03/19/2024	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**110 J**	130 U	130 U	130 U	130 U	130 U	630 U	**2,700**
OW-30B	03/19/2024	**0.94 J**	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**24**	1.0 U	**3.4**	1.0 U	**11**	1.0 U	5.0 U	1.0 U
C Zone																										
MW-01C	03/19/2024	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**81**	50 U	50 U	50 U	250 U	50 U
MW-04C	03/19/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**180 J**	400 U	**370 J**	400 U	**970**	400 UJ	2,000 U	**2,400**
MW-05C	03/19/2024	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	100 U	20 U
CD Zone																										
MW-01CD	03/19/2024	800 U	800 U	1,600 U	800 U	1,600 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	4,000 U	**2,000**
MW-05CD	03/19/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**40**	10 U	10 U	10 U	50 U	**460**
F Zone																										
MW-01F	03/19/2024	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**30**	20 U	20 U	20 U	100 U	**910**
MW-05F	03/19/2024	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**33**	25 U	25 U	25 U	130 U	**530**
MW-06F	03/20/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**20**	10 U	10 U	10 U	50 U	**490**

Note:

All units in ug/l.

QUALIFIERS

J: Estimated value.

J-: Estimated value; bias low.

N/A: Not available.

NS: Not Sampled

UJ: Estimated non-detect.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 5.3 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
September 2024

Location	Date Sampled	Contaminants of Concern						Remaining Detected Analytes																																	
		Benzene	Chlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichloropropane	2,2-Dichloropropane	2-Butanone (MEK)	2-Chloroethyl vinyl ether	2-Hexanone	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Effluent Limit*	1	5	5	3	3	3	5	5	5	1	5	5	N/A	5	0.04	5	0.04	0.0006	0.6	1	5	5	5	50	N/A	50	N/A	50	5	5	50	50	5	120	5	5	7	5	5	0.4	50
A Zone																																									
MW-02A	09/24/2024	**470**	**16,000**	**690**	**2,400**	**780**	**3,700**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**220**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
MW-05A	09/23/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-09A	09/23/2024	200 U	200 U	200 U	**850**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**780**	200 U	200 U
OW-12A	09/24/2024	**200**	**6,000**	**120**	**5,900**	**1,100**	**4,000**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
OW-15A	09/23/2024	**0.87 J**	**230**	**68**	**450**	**180**	**370**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1**	1.0 U	1.0 U
OW-16A	09/23/2024	1.0 U	1.0 U	1.0 U	**5.4**	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-18A	09/24/2024	**590**	**21,000**	**420 J**	**5,000**	**2,000**	**16,000**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-22A	09/24/2024	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-29A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B Zone																																									
MW-01B	09/24/2024	**77 J**	**13,000**	**62 J**	**660**	**800**	**3,700**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U
MW-04B	09/23/2024	**200**	**1,500**	**390**	**1,700**	**670**	**1,600**	80 U	80 U	**290**	80 U	80 U	80 U	80 U	**34 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**41 J**	80 U	**4,200**	80 U	80 U
MW-06B	09/24/2024	**590**	**6,200**	**330 J**	**9,300**	**2,600**	**6,100**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
OW-05B	09/24/2024	400 U	400 U	**160 J**	400 U	400 U	400 U	400 U	400 U	**460**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**3,200**	400 U	400 U
DUP OW-05B	09/24/2024	**100**	**260**	**160**	**120**	**120**	**160**	100 U	100 U	**460**	100 U	100 U	100 U	100 U	**60 J**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**3,500**	100 U	100 U
OW-06B	09/24/2024	**120**	**800**	**580**	**510**	**310**	**650**	80 U	80 U	**200**	80 U	80 U	80 U	80 U	**51 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**4,900**	80 U	80 U
OW-07B	09/24/2024	**5.9**	**43**	1.0 U	**3.1**	**7.3**	**8.2**	1.0 U	**0.84 J**	**13**	**0.54 J**	**2.0**	**0.32 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.54 J**	1.0 U	**83**	1.0 U	1.0 U
OW-08B	09/24/2024	**55**	**510**	**4.9**	**460**	**200**	**320**	1.0 U	1.0 U	1.0 U	1.0 U	**2.9**	**0.53 J**	1.0 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**40**	1.0 U	1.0 U
OW-10B	09/24/2024	**2,000**	**24,000**	**2,400**	**15,000**	**3,300**	**14,000**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**670**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	**33 J**	**8.5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**14**	10 U	10 U
OW-11B	09/24/2024	**3,100**	**7,900**	**2,700**	**18,000**	**5,000**	**15,000**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**860**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
DUP OW-11B	09/24/2024	**3,000**	**7,800**	**2,800**	**17,000**	**4,900**	**15,000**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	**930**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-12B	09/23/2024	**280**	**1,900**	**27 J**	**790**	**570**	**1,200**	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	400 U	200 U	200 U	200 U	400 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	**320**	40 U	40 U
OW-13B	09/23/2024	**790**	**6,600**	**2,400**	**5,900**	**1,900**	**6,900**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**140 J**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**670**	200 U	200 U
OW-14B	09/24/2024	**45 J**	**1,900**	**400**	**1,700**	**1,100**	**4,100**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**110**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
OW-15B	09/23/2024	**24**	**130**	**4.2 J**	**17**	**39**	**36**	10 U	10 U	**12**	10 U	10 U	**7.6 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**9.3 J**	10 U	**590**	10 U	10 U
OW-22B	09/24/2024	**90 J**	**280**	200 U	200 U	200 U	200 U	200 U	200 U	**350**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**110 J**	200 U	**2,800**	200 U	200 U
OW-26B	09/23/2024	**7.0**	**28**	2.0 U	2.0 U	2.0 U	**2.6**	2.0 U	2.0 U	2.0 U	2.0 U	**2.2**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	10 U	10 U	10 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.83 J**	2.0 U	**6.3**	2.0 U	2.0 U
OW-27B	09/23/2024	**280**	**1,300**	**60**	**350**	**300**	**660**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**1,600**	20 U	20 U
OW-28B	09/23/2024	**84 J**	**230**	**170**	**280**	**150**	**280**	130 U	130 U	**410**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**4,200**	130 U	130 U
DUP OW-28B	09/23/2024	**98 J**	**250**	**120 J**	**200**	200 U	**220**	200 U	200 U	**440**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**4,300**	200 U	200 U
OW-29B	09/23/2024	**280**	**2,800**	**640**	**1,300**	**570**	**1,800**	130 U	130 U	**160**	130 U	130 U	130 U	130 U	**110 J**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**4,500**	130 U	130 U
OW-30B	09/23/2024	**1.8**	**21**	**1.5**	**12**	**52**	**16**	1.0 U	1.0 U	1.0 U	**0.97 J**	**3.5**	1.0 U	1.0 U	**0.94 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.57 J**	1.0 U	**5.8**	1.0 U	1.0 U
C Zone																																									
MW-01C	09/24/2024	**1,100**	**39 J**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**36 J**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**3,700**	50 U	50 U
MW-04C	09/23/2024	**3,400**	**4,600**	400 U	**770**	400 U	**490**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**26,000**	400 U	400 U
MW-05C	09/23/2024	**330**	**3,900**	50 U	**310**	**530**	**1,200**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
CD Zone																																									
MW-01CD	09/24/2024	**5,000**	**51,000**	**190**	**13,000**	**1,600**	**9,200**	80 U	80 U	80 U	80 U	80 U	**71 J**	80 U	**81**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**10,000**	80 U	80 U
MW-05CD	09/23/2024	**29**	10 U	10 U	**8.6 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**840**	10 U	10 U
F Zone																																									
MW-01F	09/24/2024	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**29**	20 U	20 U
MW-05F	09/24/2024	**1,400**	**3,200 T**	**22 J**	**2,500 T**	**220**	**1,100**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	130 U	130 U	130 U	**120 J**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**26**	25 U	25 U
MW-06F	09/24/2024	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	**79 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**85**	10 U	10 U

Note:

All units in ug/l.

QUALIFIERS

GC/MS VOA

J: Estimated value.

J-: Estimated value; biased low.

NS: Not Sampled

T: Indicates that a quality control parameter doesn't meet the control limit requirements.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 5.3 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
September 2024

Location	Date Sampled	Remaining Detected Analytes																								
		Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	2-Chlorotoluene	o-Xylene	4-Chlorotoluene	4-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
	Effluent Limit*	5	5	0.5	5	5	10	5	5	5	10	5	5	5	5	5	5	5	5	5	5	0.4	5	5	N/A	2
A Zone																										
MW-02A	09/24/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
MW-05A	09/23/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**20**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-09A	09/23/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**8,500**	200 U	200 U	200 U	**520**	200 U	1,000 U	200 U
OW-12A	09/24/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
OW-15A	09/23/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.92J**	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-16A	09/23/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-18A	09/24/2024	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-22A	09/24/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-29A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B Zone																										
MW-01B	09/24/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	400 U	80 U
MW-04B	09/23/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**2,400**	80 U	**110**	80 U	**4,900**	80 U	400 U	**1,000**
MW-06B	09/24/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	2,000 U	400 U
OW-05B	09/24/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**3,100**	400 U	400 U	400 U	**8,700**	400 U	2,000 U	400 U
DUP OW-05B	09/24/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**3,400**	100 U	100 U	100 U	**9,100**	100 U	500 U	**270**
OW-06B	09/24/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**1,500**	80 U	**100**	80 U	**3,700**	80 U	400 U	**850**
OW-07B	09/24/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**67**	1.0 U	**8.2**	1.0 U	**110**	1.0 U	5.0 U	**4.4**
OW-08B	09/24/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	**1.0**	**31**	1.0 U	**29**	1.0 U	5.0 U	**18**
OW-10B	09/24/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	**6.2J**	**47**	10 U	**26**	10 U	10 U	10 U	10 U	**13**	**6.2J**	10 U	10 U	**5.1J**	10 U	50 U	10 U
OW-11B	09/24/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	2,000 U	400 U
DUP OW-11B	09/24/2024	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-12B	09/23/2024	40 U	40 U	80 U	40 U	80 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	200 U	**480**
OW-13B	09/23/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**94J**	200 U	200 U	200 U	**120J**	200 U	1,000 U	**1,500**
OW-14B	09/24/2024	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**58J**	100 U	100 U	100 U	**76J**	100 U	500 U	100 U
OW-15B	09/23/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**71**	10 U	10 U	10 U	**240**	10 U	50 U	**170**
OW-22B	09/24/2024	200 UJ	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**2,700**	200 U	200 U	200 U	**6,200J-**	200 U	1,000 U	**390**
OW-26B	09/23/2024	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**100**	2.0 U	**4.5**	2.0 U	**4.9**	2.0 U	10 U	**2.6**
OW-27B	09/23/2024	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**130**	20 U	**76**	20 U	**130**	20 U	100 U	**770**
OW-28B	09/23/2024	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**3,300**	130 U	130 U	130 U	**7,600**	130 U	630 U	**540**
DUP OW-13B	09/23/2024	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**3,700**	200 U	200 U	200 U	**7,800**	200 U	1,000 U	**580**
OW-29B	09/23/2024	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**1,500**	130 U	**140**	130 U	**1,100**	130 U	630 U	**3,100**
OW-30B	09/23/2024	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**40**	1.0 U	**7.0**	1.0 U	**9.8**	1.0 U	5.0 U	**3.3**
C Zone																										
MW-01C	09/24/2024	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**200**	50 U	50 U	50 U	250 U	**1,600**
MW-04C	09/23/2024	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**240J**	400 U	400 U	400 U	**1,200**	400 U	2,000 U	**2,100**
MW-05C	09/23/2024	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	250 U	50 U
CD Zone																										
MW-01CD	09/24/2024	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**410**	80 U	80 U	80 U	400 U	**2,800**
MW-05CD	09/23/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**40**	10 U	10 U	10 U	50 U	**400**
F Zone																										
MW-01F	09/24/2024	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**33**	20 U	20 U	20 U	100 U	**740**
MW-05F	09/24/2024	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**60**	25 U	25 U	25 U	130 U	**260**
MW-06F	09/24/2024	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**17**	10 U	10 U	10 U	50 U	**450**

Note:

All units in ug/l.

QUALIFIERS

GC/MS VOA

J: Estimated value.

NS: Not Sampled

F: Indicates that a quality control parameter doesn't meet the control limits requirements.

UJ: Estimated non-detect.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 5.4 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
March 2025

Location	Date Sampled	Contaminants of Concern						Remaining Detected Analytes																																	
		Benzene	Chlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichloropropane	2,2-Dichloropropane	2-Butanone (MEK)	2-Chloroethyl vinyl ether	2-Hexanone	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
	Effluent Limit*	1	5	5	3	3	3	5	5	5	1	5	5	N/A	5	0.04	5	0.04	0.0006	0.6	1	5	5	5	50	N/A	50	N/A	50	5	5	50	50	5	120	5	5	7	5	5	0.4
A Zone																																									
MW-02A	03/19/2025	**140 J**	**6,800**	**120 J**	**1,300**	**730**	**3,400**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
MW-05A	03/19/2025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-09A	03/19/2025	50 U	50 U	50 U	**420**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**540**	50 U	50 U
OW-12A	03/19/2025	**440**	**5,200**	**210**	**5,000**	**960**	**3,700**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**65 J**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
OW-15A	03/19/2025	10 U	**160**	**590**	**730**	**260**	**350**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7.3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
OW-16A	03/19/2025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-18A	03/19/2025	**380 J**	**16,000**	500 U	**2,700**	**1,700**	**13,000**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-22A	03/20/2025	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
OW-29A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B Zone																																									
MW-01B	03/19/2025	400 U	**29,000**	**380 J**	**2,500**	**2,100**	**10,000**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
MW-04B	03/19/2025	80 U	**67 J**	**150**	**230**	**130**	**250**	80 U	80 U	**390**	80 U	80 U	80 U	80 U	**34 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**150**	80 U	**2,600**	80 U
MW-06B	03/19/2025	**69 J**	**480**	**350**	**350**	**230**	**460**	100 U	100 U	**110**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**3,600**	100 U
OW-05B	03/20/2025	400 U	400 U	**160 J**	400 U	400 U	400 U	400 U	400 U	**310 J**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 UJ	**3,400**	400 U
DUP OW-05B	03/20/2025	**88 J**	**210**	**150**	**120**	**100**	**140**	100 U	100 U	**340**	100 U	100 U	**33 J**	100 U	**54 J**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**38 J**	100 U	**3,600**	100 U
OW-06B	03/19/2025	**170**	**1,900**	**180**	**3,000**	**1,200**	**2,200**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**55 J**	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	800 U	400 U	400 U	400 U	800 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U
OW-07B	03/19/2025	**2.4**	**26**	2.0 U	**2.6**	**14**	**11**	2.0 U	2.0 U	**17**	2.0 U	**1.8 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	10 U	10 U	10 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**4.3**	2.0 U	**230**	2.0 U
OW-08B	03/19/2025	10 U	**69**	**4.1 J**	**220**	**130**	**180**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**24**	10 U
OW-10B	03/19/2025	50 U	**80**	**1,800**	**1,700**	**1,000**	**2,100**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**490**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 UJ	250 U	250 U	250 U	500 UJ	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 UJ	50 U	50 U
OW-11B	03/20/2025	**1,400**	**3,300**	**2,400**	**12,000**	**3,600**	**10,000**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**780**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
DUP OW-11B	03/20/2025	**1,300**	**3,100**	**2,100**	**11,000**	**3,300**	**9,300**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	**730**	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	2,500 U	2,500 U	2,500 U	5,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
OW-12B	03/19/2025	**58**	**370**	10 U	**150**	**97**	**170**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**55**	10 U	10 U
OW-13B	03/19/2025	**670**	**6,600**	**1,800**	**5,100**	**2,000**	**6,800**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**97 J**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**700**	200 U
DUP OW-13B	03/19/2025	**640**	**6,300**	**1,800**	**4,900**	**1,900**	**6,500**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**84 J**	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	1,000 U	1,000 U	1,000 U	2,000 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**690**	200 U
OW-14B	03/20/2025	100 U	**1,300**	**200**	**1,600**	**1,000**	**3,200**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**41 J**	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	1,000 U	500 U	500 U	500 U	1,000 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**110**	100 U
OW-15B	03/20/2025	**17**	**260**	**21**	**120**	**170**	**260**	10 U	10 U	**28**	10 U	10 U	**5.4 J**	10 U	**6.6 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**6.1 J**	10 U	**1,100**	10 U
OW-22B	03/20/2025	50 U	**50**	**240**	**160**	**140**	**220**	50 U	50 U	**200**	50 U	50 U	50 U	50 U	**83**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 UJ	250 U	250 U	250 U	500 UJ	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 UJ	**860**	50 U
OW-26B	03/19/2025	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.3 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	10 U	10 U	10 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**5.3**	2.0 U
OW-27B	03/19/2025	**92**	**520**	**39**	**220**	**250**	**420**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**9.0 J**	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200 U	100 U	100 U	100 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**150**	20 U
OW-28B	03/19/2025	130 U	**180**	**220**	**190**	**110 J**	**190**	130 U	130 U	**250**	130 U	130 U	130 U	130 U	**56 J**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**43 J**	130 U	**4,500**	130 U
OW-29B	03/19/2025	**240**	**2,300**	**450**	**1,300**	**580**	**1,900**	130 U	130 U	**130**	130 U	130 U	130 U	130 U	**55 J**	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	1,300 U	630 U	630 U	630 U	1,300 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**58 J**	130 U	**4,900**	130 U
OW-30B	03/19/2025	**0.62 J**	**8.2**	**1.3**	**3.4**	**26**	**10**	1.0 U	1.0 U	1.0 U	1.0 U	**3.7**	1.0 U	1.0 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15**	1.0 U
C Zone																																								
MW-01C	03/19/2025	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**2,900**	50 U
MW-04C	03/19/2025	**3,600**	**5,000**	400 U	**850**	400 U	**540**	400 U	400 U	400 U	400 U	400 U	**160 J**	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	4,000 U	2,000 U	2,000 U	2,000 U	4,000 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 UJ	**29,000 J-**	400 U
MW-05C	03/19/2025	**720**	**8,900**	50 U	**1,200**	**1,500**	**4,100**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	250 U	250 U	250 U	500 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
CD Zone																																								
MW-01CD	03/19/2025	**4,500**	**44,000**	800 U	**11,000**	**1,400**	**7,200**	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	8,000 U	4,000 U	4,000 U	4,000 U	8,000 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	**10,000**	800 U
MW-05CD	03/19/2025	**27**	**8.0 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**770**	10 U
F Zone																																								
MW-01F	03/18/2025	**2.3 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	25 U	25 U	25 U	**16 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**16**	5.0 U
MW-05F	03/18/2025	**1,200**	**4,600**	**37**	**4,900**	**420**	**2,100**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	250 U	130 U	130 U	130 U	**78 J**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
MW-06F	03/18/2025	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	50 U	50 U	50 U	**73 J**	10 U	10 U	10 U	10 U	10 U	**1.9 J**	10 U	10 U	10 U	10 U	**290**	10 U

Note:

All units in ug/l.

QUALIFIERS

J: Estimated value.

J-: Estimated value; bias low.

N/A: Not available.

NS: Not Sampled

UJ: Estimated non-detect.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 5.4 - GROUND WATER ANALYTICAL RESULTS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NY
March 2025

Location	Date Sampled	Remaining Detected Analytes																										
		Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene	2-Chlorotoluene	o-Xylene	4-Chlorotoluene	4-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride
	Effluent Limit*	50	5	5	0.5	5	5	10	5	5	5	10	5	5	5	5	5	5	5	5	5	5	0.4	5	5	N/A	2
A Zone																												
MW-02A	03/19/2025	200 U	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1,000 U	200 U
MW-05A	03/19/2025	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**8.3**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-09A	03/19/2025	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**2,900**	50 U	50 U	50 U	**250**	50 U	250 U	50 U
OW-12A	03/19/2025	100 U	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
OW-15A	03/19/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
OW-16A	03/19/2025	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-18A	03/19/2025	500 U	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-22A	03/20/2025	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
OW-29A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B Zone																												
MW-01B	03/19/2025	400 U	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	2,000 U	400 U
MW-04B	03/19/2025	80 U	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	**3,500**	80 U	80 U	80 U	**9,300**	80 U	400 U	80 U
MW-06B	03/19/2025	100 U	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**1,300**	100 U	100 U	100 U	**3,800**	100 U	500 U	**570**
OW-05B	03/20/2025	400 U	400 UJ	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**3,200**	400 U	400 U	400 U	**9,700**	400 U	2,000 U	400 U
DUP OW-05B	03/20/2025	100 U	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	**3,400**	100 U	100 U	100 U	**9,900**	100 U	500 U	**360**
OW-06B	03/19/2025	80 U	80 U	80 U	160 U	80 U	160 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	400 U	80 U
OW-07B	03/19/2025	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**59**	2.0 U	**14**	2.0 U	**110**	2.0 U	10 U	**3.8**
OW-08B	03/19/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**19**	10 U	50 U	10 U
OW-10B	03/19/2025	50 U	50 UJ	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	250 U	50 U
OW-11B	03/20/2025	400 U	400 U	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	2,000 U	400 U
DUP OW-11B	03/20/2025	500 U	500 U	500 U	1,000 U	500 U	1,000 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	2,500 U	500 U
OW-12B	03/19/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	**110**
OW-13B	03/19/2025	200 U	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1,000 U	**1,800**
DUP OW-13B	03/19/2025	200 U	200 U	200 U	400 U	200 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1,000 U	**1,900**
OW-14B	03/20/2025	100 U	100 U	100 U	200 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	500 U	100 U
OW-15B	03/20/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**230**	10 U	**12**	10 U	**510**	10 U	50 U	**40**
OW-22B	03/20/2025	50 U	50 UJ	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**3,000 J-**	50 U	50 U	50 U	**2,600 J-**	50 U	250 U	50 U
OW-26B	03/19/2025	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**77**	2.0 U	**2.4**	2.0 U	**4.1**	2.0 U	10 U	2.0 U
OW-27B	03/19/2025	20 U	20 U	20 U	40 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**140**	20 U	20 U	20 U	**45**	20 U	100 U	**120**
OW-28B	03/19/2025	130 U	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**3,300**	130 U	130 U	130 U	**8,100**	130 U	630 U	**400**
OW-29B	03/19/2025	130 U	130 U	130 U	250 U	130 U	250 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	**540**	130 U	**110 J**	130 U	**2,600**	130 U	630 U	**2,000**
OW-30B	03/19/2025	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**26**	1.0 U	**6.8**	1.0 U	**11**	1.0 U	5.0 U	**7.0**
C Zone																												
MW-01C	03/19/2025	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**120**	50 U	50 U	50 U	250 U	**550**
MW-04C	03/19/2025	400 U	400 UJ	400 U	800 U	400 U	800 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	**480**	400 U	**400**	400 U	**2,400**	400 U	2,000 U	**2,800**
MW-05C	03/19/2025	50 U	50 U	50 U	100 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	250 U	50 U
CD Zone																												
MW-01CD	03/19/2025	800 U	800 U	800 U	1,600 U	800 U	1,600 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	4,000 U	**2,900**
MW-05CD	03/19/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**40**	10 U	10 U	10 U	50 U	**370**
F Zone																												
MW-01F	03/18/2025	5.0 U	5.0 U	5.0 U	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**25**	5.0 U	**2.6 J**	5.0 U	25 U	**220**
MW-05F	03/18/2025	25 U	25 U	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**52**	25 U	25 U	25 U	130 U	**150**
MW-06F	03/18/2025	10 U	10 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**22**	10 U	10 U	10 U	50 U	**720**

Note:

All units in ug/l.

QUALIFIERS

J: Estimated value.

J-: Estimated value; bias low.

N/A: Not available.

NS: Not Sampled

UJ: Estimated non-detect.

U: Non-detect.

* - NYSDEC Groundwater effluent limitations for discharges to Class GA waters, 2019.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the listed criteria.

TABLE 6.1 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
1st QUARTER 2024

Monitoring Well No.	Reference Elevation (ft.)	3/19/2024 and 3/20/2024	
		DTW (ft)	Elevation (ft.)
A - Zone:			
MW-1A	572.45	8.17	564.28
MW-2A	572.16	7.13	565.03
MW-5A	570.56	8.92	561.64
MW-6A	573.28	7.67	565.61
OW-1A	570.46	5.66	564.80
OW-5A [1]	573.05	12.14	560.91
OW-6A [1]	572.10	9.72	562.38
OW-7A	574.00	10.86	563.14
OW-8A	572.82	10.60	562.22
OW-9A	574.13	12.31	561.82
OW-10A	568.29	DRY	DRY
OW-11A [1]	575.26	12.11	563.15
OW-12A	575.41	11.18	564.23
OW-13A	574.95	9.96	564.99
OW-14A	575.21	10.20	565.01
OW-15A	569.19	6.18	563.01
OW-16A	572.05	7.50	564.55
OW-17A	567.85	9.68	558.17
OW-18A	575.87	9.98	565.89
OW-19A	572.89	7.68	565.21
OW-20A [1]	572.62	11.97	560.65
OW-21A [1]	569.33	6.36	562.97
OW-22A [1]	570.68	6.78	563.90
OW-26A	570.63	10.62	560.01
OW-27A	570.34	8.38	561.96
OW-29A	573.14	8.09	565.05
TW-1A	569.19	8.70	560.49
TW-2A	569.72	6.80	562.92
TW-3A	571.16	6.73	564.43
TW-4A	569.82	4.85	564.97
TW-5A	569.33	4.23	565.10
B-Zone:			
MW-1B	572.44	8.60	563.84
MW-2B	572.46	13.95	558.51
MW-4B	573.50	18.12	555.38
MW-5B	571.48	DRY	DRY
MW-6B	573.40	16.97	556.43
OW-1B	570.95	14.36	556.59
OW-2B	573.98	19.51	554.47
OW-3B	572.64	15.79	556.85
OW-4B [1]	570.55	13.93	556.62
OW-5B [1]	568.31	12.69	555.62
OW-6B	573.10	20.29	552.81
OW-7B [1]	572.73	25.35	547.38
OW-8B [1]	572.53	23.08	549.45
OW-10B	572.62	15.39	557.23
OW-11B	571.93	15.20	556.73
OW-12B	571.85	23.79	548.06
OW-13B	571.68	18.06	553.62
OW-14B [1]	570.87	14.40	556.47
OW-15B [1]	569.78	12.20	557.58
OW-18B [2]	576.05	NM	NM
OW-22B [1]	570.90	14.55	556.35
OW-23B [1]	569.67	13.40	556.27
OW-24B [1]	570.36	13.92	556.44

TABLE 6.1 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
1st QUARTER 2024

Monitoring Well No.	Reference Elevation (ft.)	3/19/2024 and 3/20/2024	
		DTW (ft)	Elevation (ft.)
OW-25B [1]	570.9	14.37	556.53
OW-26B	571.64	23.32	548.32
OW-27B	569.81	16.80	553.01
OW-28B	568.76	13.24	555.52
OW-29B	568.16	13.08	555.08
OW-30B	568.10	19.58	548.52
OW-31B [1]	570.14	13.43	556.71
OW-32B [1]	569.99	13.42	556.57
OW-33B [1]	569.55	13.10	556.45
PW-1B [1]	572.34	14.63	557.71
PW-2B	571.60	18.38	553.22
PW-3B [1]	571.21	22.64	548.57
PW-4B [1]	569.72	15.14	554.58
PW-5B	572.74	19.63	553.11
PW-6B	573.95	25.45	548.50
PW-7B	571.15	17.22	553.93
PW-8B	572.36	24.24	548.12
C-Zone:			
MW-1C	572.53	16.81	555.72
MW-4C	571.42	27.80	543.62
MW-5C	572.75	25.02	547.73
MW-6C [1]	573.60	26.15	547.45
CD-Zone:			
MW-1CD	572.78	17.13	555.65
MW-5CD	570.50	25.88	544.62
MW-6CD [2]	573.45	19.35	554.10
F-Zone:			
MW-1F	572.40	15.75	556.65
MW-5F	572.78	19.64	553.14
MW-6F	573.52	19.29	554.23
Piezometers:			
PZ-01	572.46	7.45	565.01
PZ-02	572.14	7.05	565.09
PZ-03	571.95	6.88	565.07
PZ-04	572.03	6.96	565.07

Notes:
1) Monitoring wells within the Hot Spot were measured on 3/20/2024.
2) OW-18B was not measured due to obstructions in the well.

TABLE 6.2 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
3RD QUARTER 2024

Monitoring Well No.	Reference Elevation (ft.)	9/22/2024 to 9/25/2024 DTW (ft)	Elevation (ft.)
A - Zone:			
MW-1A	572.45	8.35	564.10
MW-2A	572.16	8.8	563.36
MW-5A	570.56	10.15	560.41
MW-6A	573.28	6.75	566.53
OW-1A	570.46	6.75	563.71
OW-5A [1]	573.05	DRY	DRY
OW-6A [1]	572.10	9.90	562.20
OW-7A	574.00	9.90	564.10
OW-8A	572.82	10.90	561.92
OW-9A	574.13	12.70	561.43
OW-10A	568.29	DRY	DRY
OW-11A [1]	575.26	10.95	564.31
OW-12A	575.41	11.11	564.30
OW-13A	574.95	11.77	563.18
OW-14A	575.21	12.00	563.21
OW-15A	569.19	6.44	562.75
OW-16A	572.05	10.15	561.90
OW-17A	567.85	DRY	DRY
OW-18A	575.87	11.57	564.30
OW-19A	572.89	9.20	563.69
OW-20A [1]	572.62	DRY	DRY
OW-21A [1]	569.33	DRY	DRY
OW-22A [1]	570.68	12.00	558.68
OW-26A	570.63	DRY	DRY
OW-27A	570.34	9.33	561.01
OW-29A	573.14	9.77	563.37
TW-1A	569.19	9.01	560.18
TW-2A	569.72	5.44	564.28
TW-3A	571.16	7.50	563.66
TW-4A	569.82	6.64	563.18
TW-5A	569.33	6.05	563.28
B-Zone:			
MW-1B	572.44	8.75	563.69
MW-2B	572.46	13.81	558.65
MW-4B	573.50	18.20	555.30
MW-5B	571.48	DRY	DRY
MW-6B	573.40	17.20	556.20
OW-1B	570.95	14.30	556.65
OW-2B	573.98	19.16	554.82
OW-3B	572.64	15.86	556.78
OW-4B [1]	570.55	13.90	556.65
OW-5B [1]	568.31	12.50	555.81
OW-6B	573.10	20.30	552.80
OW-7B [1]	572.73	25.21	547.52
OW-8B [1]	572.53	22.70	549.83
OW-10B	572.62	15.60	557.02
OW-11B	571.93	15.10	556.83
OW-12B	571.85	23.77	548.08
OW-13B	571.68	18.33	553.35
OW-14B [1]	570.87	14.50	556.37
OW-15B [1]	569.78	13.20	556.58
OW-18B [2]	576.05	NM	NM
OW-22B [1]	570.90	14.50	556.40
OW-23B [1]	569.67	13.35	556.32
OW-24B [1]	570.36	13.95	556.41

TABLE 6.2 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
3RD QUARTER 2024

Monitoring Well No.	Reference Elevation (ft.)	9/22/2024 to 9/25/2024	
		DTW (ft)	Elevation (ft.)
OW-25B [1]	570.9	14.33	556.57
OW-26B	571.64	22.82	548.82
OW-27B	569.81	17.85	551.96
OW-28B	568.76	12.85	555.91
OW-29B	568.16	13.30	554.86
OW-30B	568.10	19.30	548.80
OW-31B [1]	570.14	13.45	556.69
OW-32B [1]	569.99	13.40	556.59
OW-33B [1]	569.55	13.10	556.45
PW-1B [1]	572.34	14.90	557.44
PW-2B	571.60	17.70	553.90
PW-3B [1]	571.21	18.02	553.19
PW-4B [1]	569.72	14.90	554.82
PW-5B	572.74	25.12	547.62
PW-6B	573.95	25.10	548.85
PW-7B	571.15	17.50	553.65
PW-8B	572.36	24.80	547.56
C-Zone:			
MW-1C	572.53	16.10	556.43
MW-4C	571.42	27.70	543.72
MW-5C	572.75	24.35	548.40
MW-6C	573.60	25.50	548.10
CD-Zone:			
MW-1CD	572.78	16.22	556.56
MW-5CD	570.50	15.40	555.10
MW-6CD [2]	573.45	NM	NM
F-Zone:			
MW-1F	572.40	13.00	559.40
MW-5F	572.78	13.20	559.58
MW-6F	573.52	14.05	559.47
Piezometers:			
PZ-01	572.46	8.5	563.96
PZ-02	572.14	8.2	563.94
PZ-03	571.95	8.00	563.95
PZ-04	572.03	8.15	563.88

Notes:
1) Monitoring wells within the Hot Spot were measured on 9/24/2024.
2) Not measured due to obstructions in the well.

TABLE 6.3 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
1st QUARTER 2025

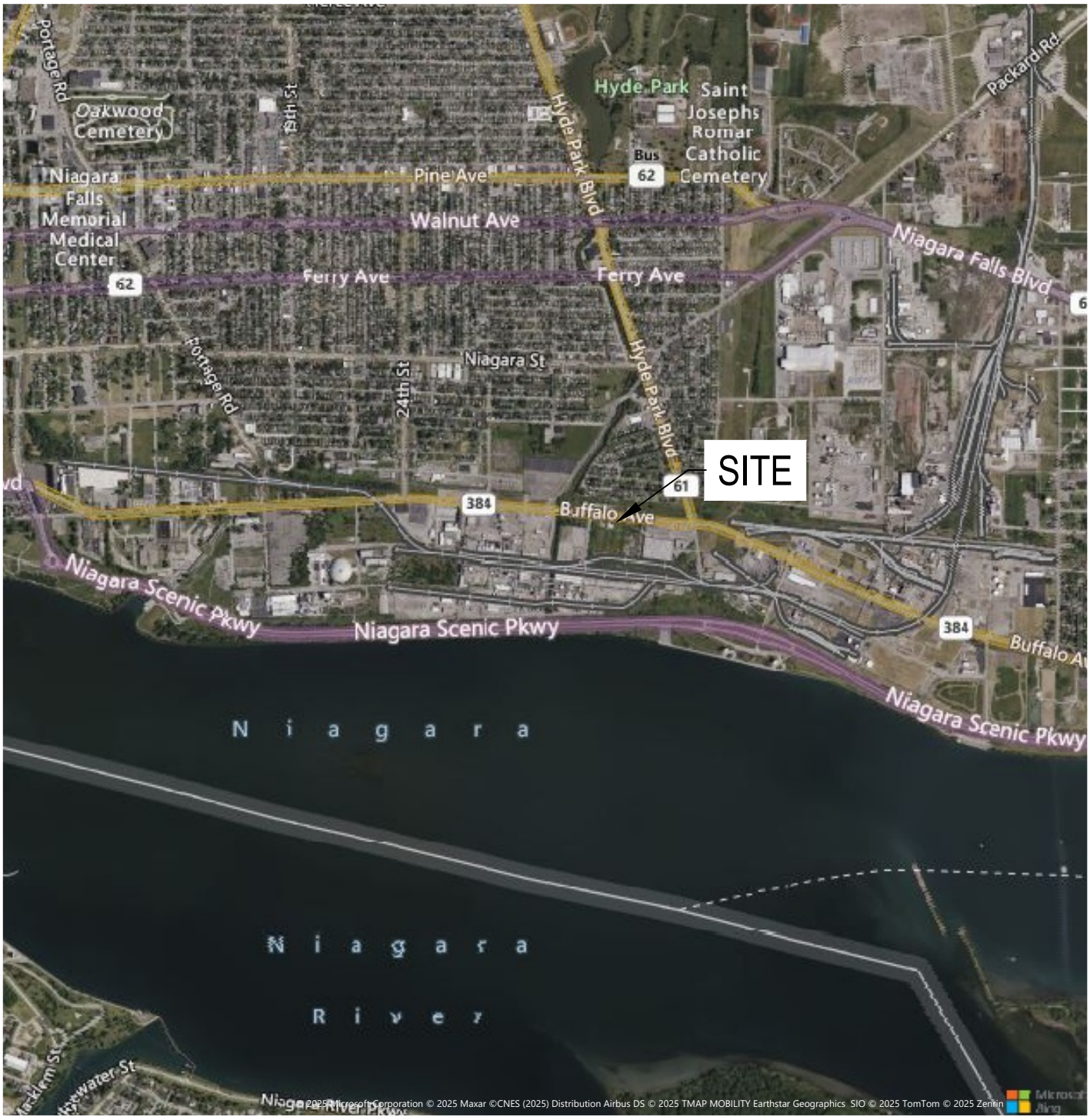
Monitoring Well No.	Reference Elevation (ft.)	3/18/2025 to 3/28/2025	
		DTW (ft)	Elevation (ft.)
A - Zone:			
MW-1A	572.45	7.56	564.89
MW-2A	572.16	6.63	565.53
MW-5A	570.56	8.44	562.12
MW-6A	573.28	6.95	566.33
OW-1A	570.46	5.18	565.28
OW-5A [1]	573.05	DRY	DRY
OW-6A [1]	572.10	9.70	562.40
OW-7A	574.00	9.17	564.83
OW-8A	572.82	10.40	562.42
OW-9A	574.13	12.07	562.06
OW-10A	568.29	DRY	DRY
OW-11A [1]	575.26	10.41	564.85
OW-12A	575.41	10.45	564.96
OW-13A	574.95	8.42	566.53
OW-14A	575.21	9.68	565.53
OW-15A	569.19	5.98	563.21
OW-16A	572.05	6.56	565.49
OW-17A	567.85	9.31	558.54
OW-18A	575.87	9.96	565.91
OW-19A	572.89	7.26	565.63
OW-20A [1]	572.62	12.00	560.62
OW-21A [1]	569.33	DRY	DRY
OW-22A [1]	570.68	6.50	564.18
OW-26A	570.63	9.25	561.38
OW-27A	570.34	8.56	561.78
OW-29A [2]	573.14	NM	NM
TW-1A	569.19	9.01	560.18
TW-2A	569.72	4.86	564.86
TW-3A	571.16	6.34	564.82
TW-4A	569.82	4.39	565.43
TW-5A	569.33	3.79	565.54
B-Zone:			
MW-1B	572.44	8.22	564.22
MW-2B	572.46	12.97	559.49
MW-4B	573.50	17.95	555.55
MW-5B	571.48	DRY	DRY
MW-6B	573.40	16.52	556.88
OW-1B	570.95	14.04	556.91
OW-2B	573.98	20.05	553.93
OW-3B	572.64	16.49	556.15
OW-4B [1]	570.55	13.67	556.88
OW-5B [1]	568.31	11.60	556.71
OW-6B	573.10	20.15	552.95
OW-7B [1]	572.73	25.31	547.42
OW-8B [1]	572.53	22.36	550.17
OW-10B	572.62	15.17	557.45
OW-11B	571.93	14.70	557.23
OW-12B	571.85	23.63	548.22
OW-13B	571.68	17.98	553.70
OW-14B [1]	570.87	14.20	556.67
OW-15B [1]	569.78	12.90	556.88
OW-18B [2]	576.05	NM	NM
OW-22B [1]	570.90	14.15	556.75
OW-23B [1]	569.67	13.00	556.67
OW-24B [1]	570.36	13.68	556.68

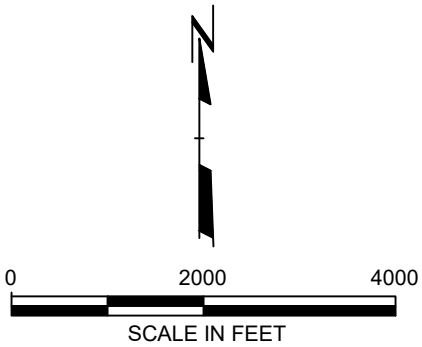
TABLE 6.3 - GROUNDWATER ELEVATIONS
SOLVENT CHEMICAL, 3163 BUFFALO AVENUE, NIAGARA FALLS, NEW YORK
1st QUARTER 2025

Monitoring Well No.	Reference Elevation (ft.)	3/18/2025 to 3/28/2025	
		DTW (ft)	Elevation (ft.)
OW-25B [1]	570.9	14.13	556.77
OW-26B	571.64	22.60	549.04
OW-27B	569.81	16.87	552.94
OW-28B	568.76	13.23	555.53
OW-29B	568.16	13.05	555.11
OW-30B	568.10	19.06	549.04
OW-31B [1]	570.14	13.20	556.94
OW-32B [1]	569.99	13.12	556.87
OW-33B [1]	569.55	12.70	556.85
PW-1B [1]	572.34	14.34	558.00
PW-2B	571.60	20.02	551.58
PW-3B [1]	571.21	17.75	553.46
PW-4B [1]	569.72	14.25	555.47
PW-5B	572.74	19.40	553.34
PW-6B	573.95	25.33	548.62
PW-7B	571.15	18.40	552.75
PW-8B	572.36	24.90	547.46
C-Zone:			
MW-1C	572.53	16.28	556.25
MW-4C	571.42	27.90	543.52
MW-5C	572.75	24.62	548.13
MW-6C	573.60	26.05	547.55
CD-Zone:			
MW-1CD	572.78	16.42	556.36
MW-5CD	570.50	25.13	545.37
F-Zone:			
MW-1F	572.40	15.22	557.18
MW-5F	572.78	17.28	555.50
MW-6F	573.52	17.45	556.07
Piezometers:			
PZ-01	572.46	6.96	565.50
PZ-02	572.14	6.57	565.57
PZ-03	571.95	6.38	565.57
PZ-04	572.03	6.45	565.58

Notes:
1) Monitoring wells within the Hot Spot were measured on 3/18/2025.
2) Not measured due to obstructions in the well.

FIGURES





PROJECT:

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	NS	PROJ NO.:	624035
CHECKED BY:	DM		
APPROVED BY:	DM	**FIGURE 1**	
DATE:	MARCH 2025		

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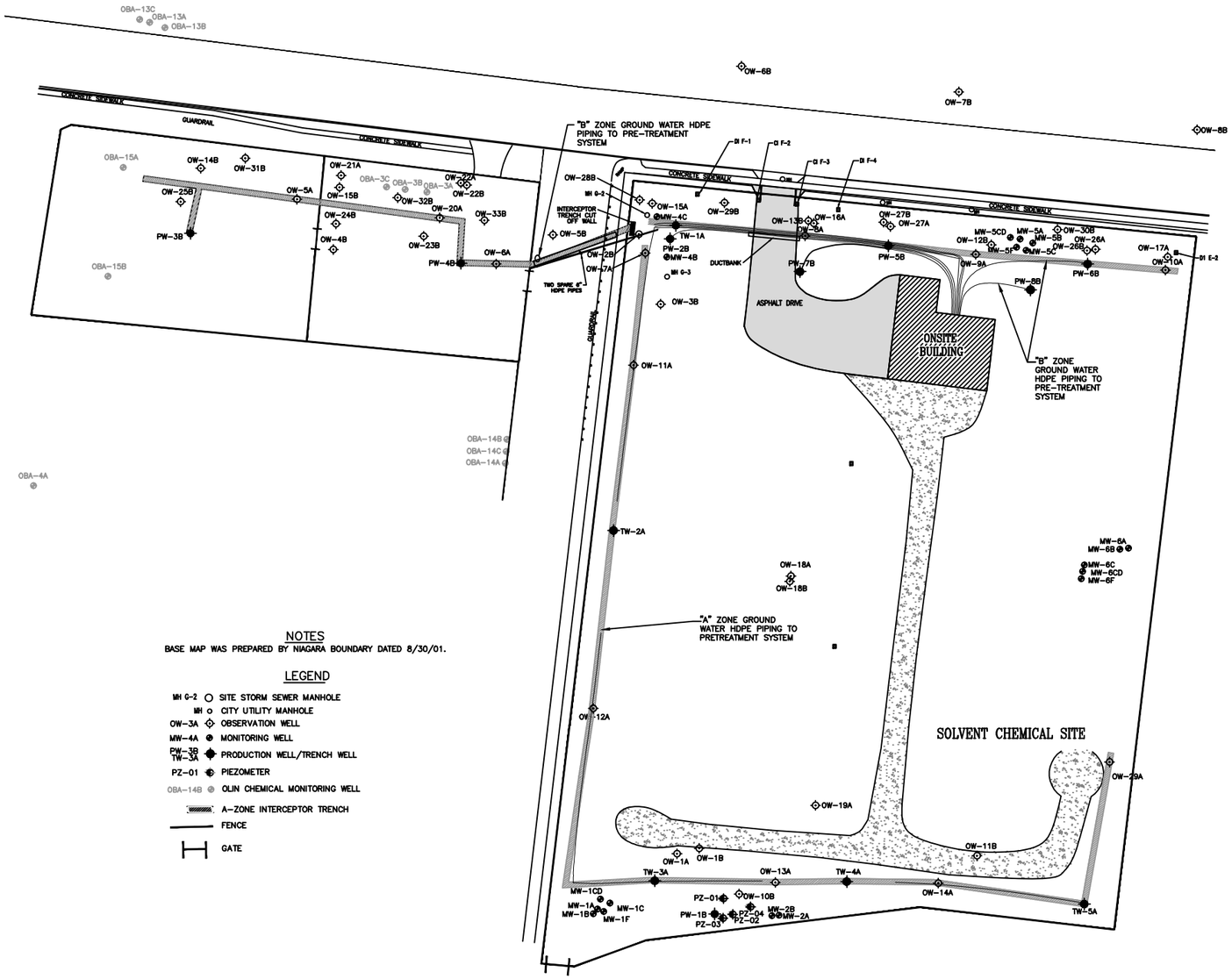
FILE NO.: FIGURE 1



NOTES

BASE MAP WAS PREPARED BY NIAGARA BOUNDARY DATED 8/30/01.

LEGEND

MH G-2	SITE STORM SEWER MANHOLE
MH	CITY UTILITY MANHOLE
OW-3A	OBSERVATION WELL
MW-4A	MONITORING WELL
PW-3B TW-3A	PRODUCTION WELL/TRENCH WELL
PZ-01	PIEZOMETER
OBA-14B	OLIN CHEMICAL MONITORING WELL
	A-ZONE INTERCEPTOR TRENCH
	FENCE
	GATE

0 100 200

SCALE IN FEET

PROJECT:

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:

GROUNDWATER EXTRACTION SYSTEM LAYOUT

DRAWN BY:	MAN, NS	PROJ NO.:	624035
CHECKED BY:	DM		
APPROVED BY:	DM	**FIGURE 2**	
DATE:	MARCH 2025		

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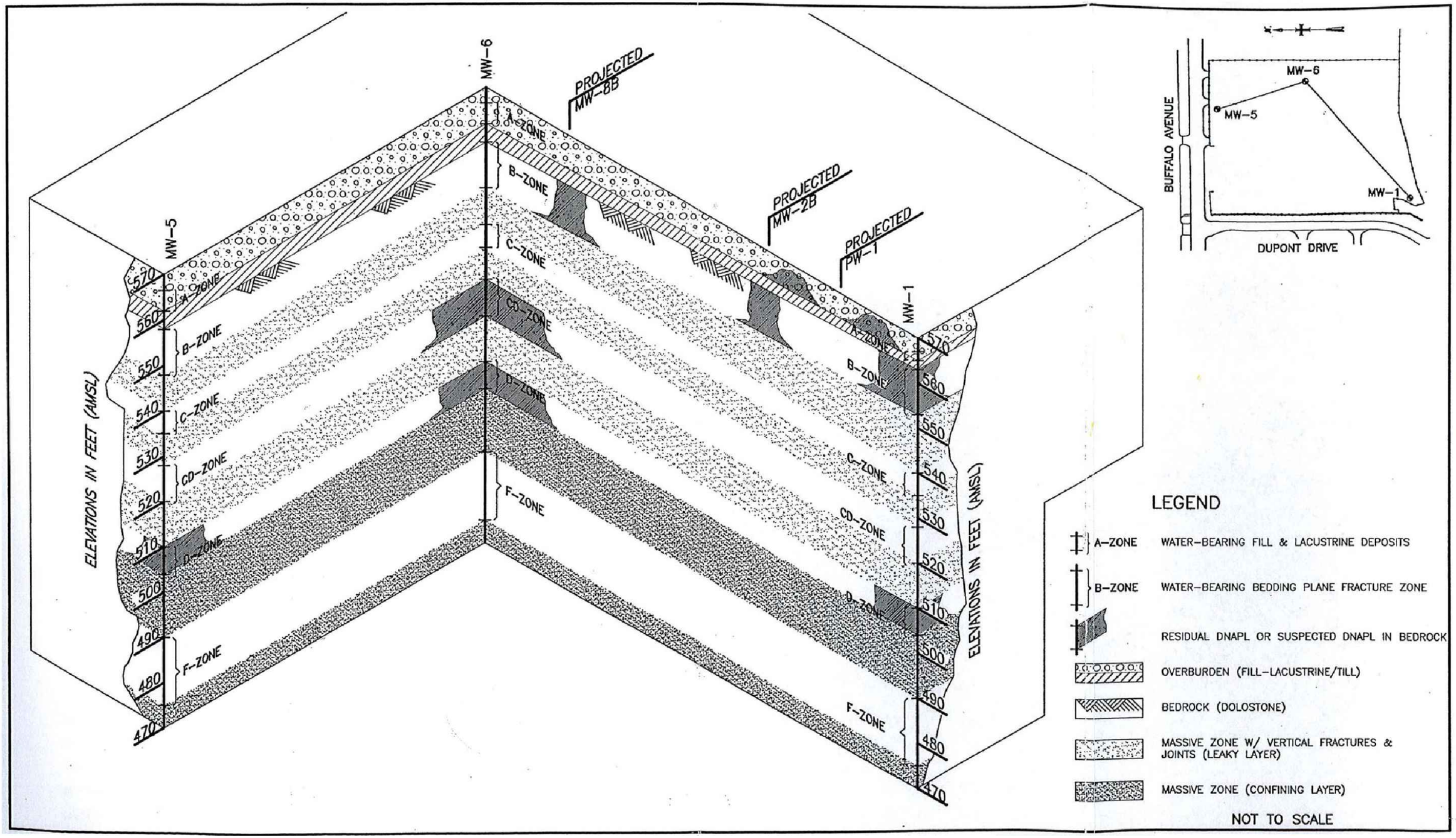
FILE NO.: Fig 2 GW_extraction.dwg



LEGEND

- A-ZONE — WATER-BEARING FILL & LACUSTRINE DEPOSITS
- B-ZONE — WATER-BEARING BEDDING PLANE FRACTURE ZONE
- RESIDUAL DNAPL OR SUSPECTED DNAPL IN BEDROCK
- OVERBURDEN (FILL-LACUSTRINE/TILL)
- BEDROCK (DOLOSTONE)
- MASSIVE ZONE W/ VERTICAL FRACTURES & JOINTS (LEAKY LAYER)
- MASSIVE ZONE (CONFINING LAYER)

NOT TO SCALE

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Phone: 978.970.5600

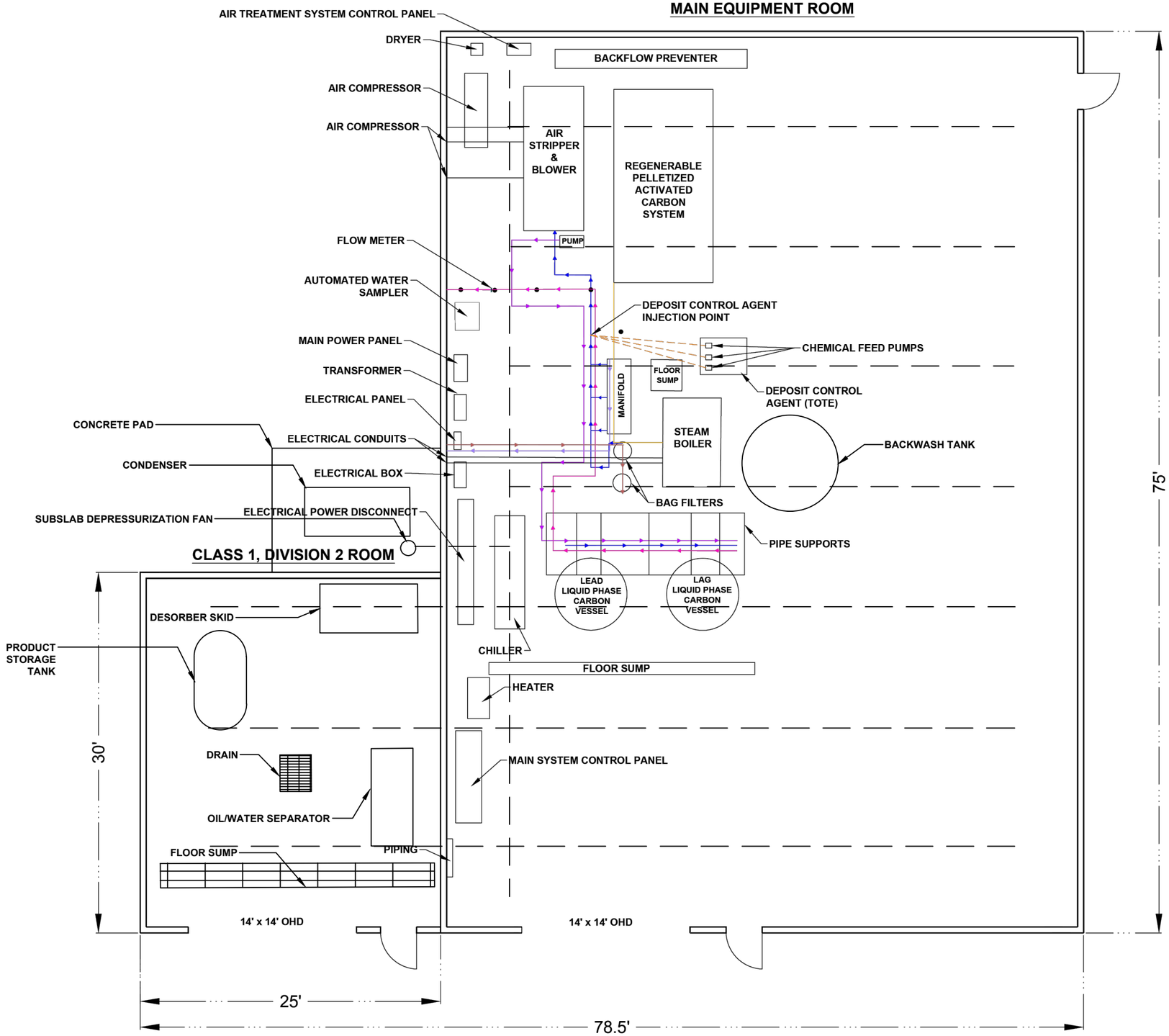
PROJECT: TRC

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE: **CONCEPTUALIZED BEDROCK GROUNDWATER FRACTURE ZONES FROM NYSDEC SOLVENT CHEMICAL RECORD OF DECISION DECEMBER 1996**

DRAWN BY:	NYSDEC
CHECKED BY:	NYSDEC
APPROVED BY:	DBM
DATE:	JULY 2024
PROJ. NO.:	105146
FILE:	Fig 2A Groundwater Fracture Zones.dwg

FIGURE 2A



LEGEND

- INFLUENT OF AIR STRIPPER (4" STAINLESS STAINLESS STEEL PIPE)
- INFLUENT OF LEAD VESSEL (3" SCHEDULE 80 PVC PIPE)
- EFFLUENT CARBON VESSEL (3" SCHEDULE 80 PVC PIPE)
- DEPOSIT CONTROL AGENT HOSE CONNECTION
- INFLUENT BAG FILTER (2" STAINLESS STAINLESS STEEL PIPE)
- EFFLUENT MANIFOLD (2" STAINLESS STAINLESS STEEL PIPE)
- ELECTRICAL CONDUITS
- STEAM
- SUBSLAB DEPRESSURIZATION SYSTEM
- PIPE SUPPORT POLES

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
SYSTEM PROCESS DIAGRAM

DRAWN BY:	LCV, NGS	PROJ NO.:	624035
CHECKED BY:	DM		
APPROVED BY:	DM		**FIGURE 2B**
DATE:	APRIL 2025		

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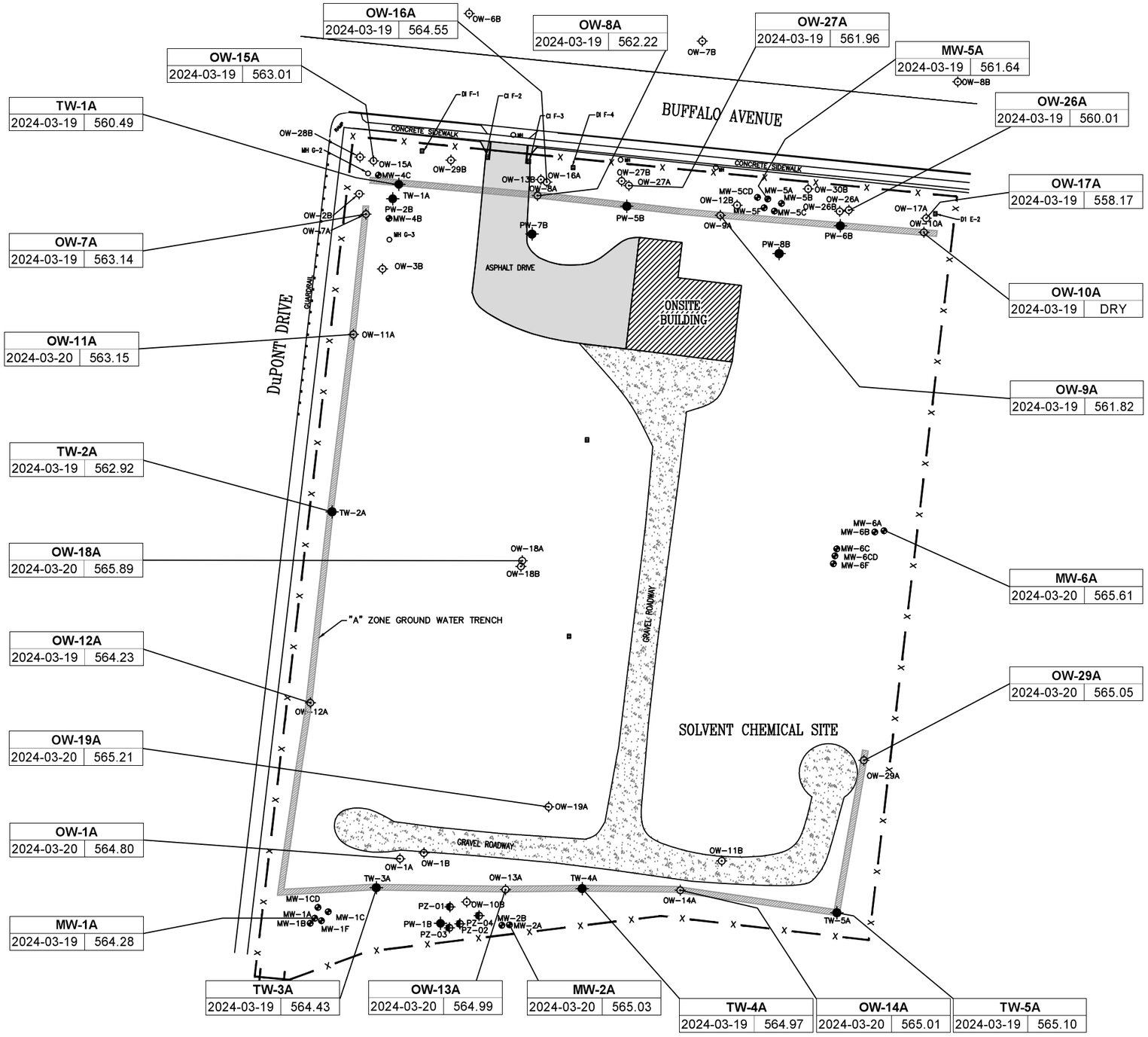
FILE NO.: Fig 2B System Process Diagram.dwg



LEGEND

OW-29A	WELL ID
2024-03-20 | 565.05	PIEZOMETRIC SURFACE ELEVATIONS (FT.) (NM = NOT MEASURED)

DATE OF MEASUREMENT

NOTE
1. GROUNDWATER ELEVATIONS REFERENCED TO BENCHMARK J20, NIAGARA FALLS CITY DATA.

SCALE IN FEET
0 40' 80'

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
OVERBURDEN WATER LEVELS
MARCH 2024

DRAWN BY:	NGS	PROJ. NO.:	624035
CHECKED BY:	TP		
APPROVED BY:	DM		FIGURE 3
DATE:	MARCH 2024		

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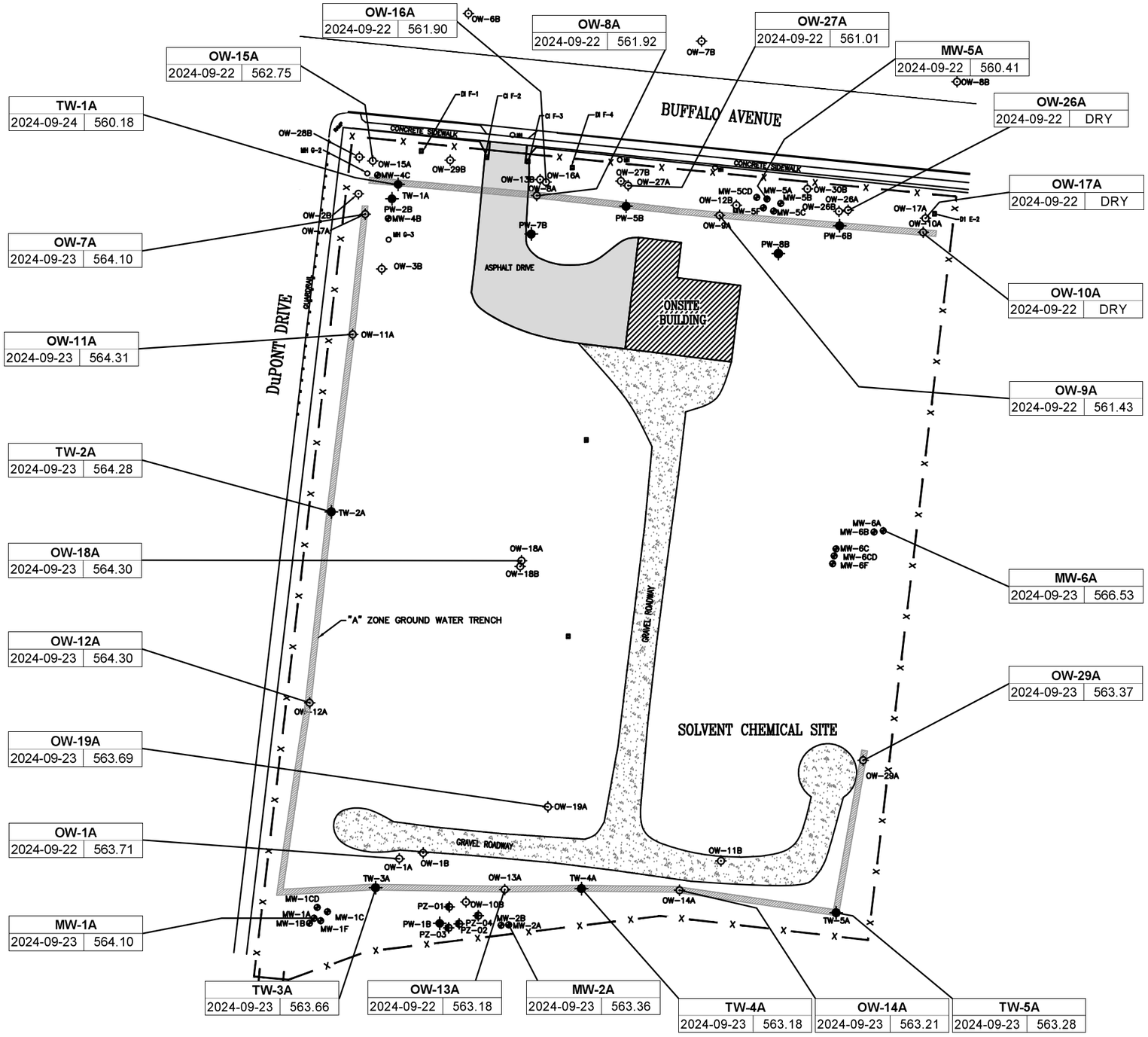
FILE NO.: Fig 3-5_AZONE_WATERLEVELS 2024-25.dwg



LEGEND

MW-6A — WELL ID
2024-09-23 | 566.53 — DATE OF MEASUREMENT; PIEZOMETRIC SURFACE ELEVATIONS (FT.) (NM = NOT MEASURED)

NOTE

1. GROUNDWATER ELEVATIONS REFERENCED TO BENCHMARK J20, NIAGARA FALLS CITY DATA.

SCALE IN FEET
0 40' 80'

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
OVERBURDEN WATER LEVELS
SEPTEMBER 2024

DRAWN BY:	NGS	PROJ. NO.:	624035
CHECKED BY:	TP		
APPROVED BY:	DM		FIGURE 4
DATE:	SEPTEMBER 2024		

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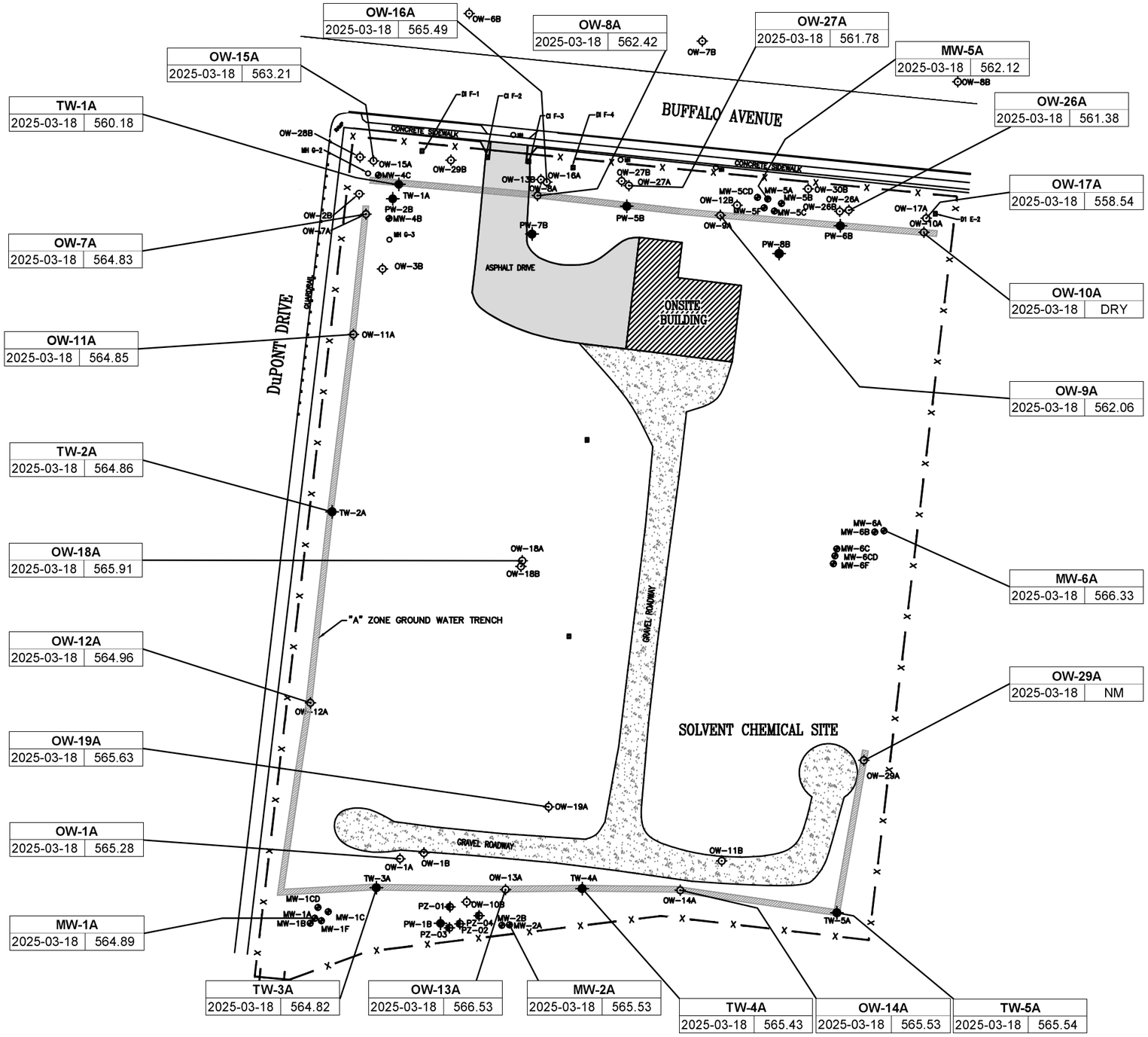
FILE NO.: Fig 3-5_AZONE_WATERLEVELS 2024-25.dwg



LEGEND

MW-6A — WELL ID
2025-03-18 | 566.33 — DATE OF MEASUREMENT; PIEZOMETRIC SURFACE ELEVATIONS (FT.) (NM = NOT MEASURED)

NOTE
1. GROUNDWATER ELEVATIONS REFERENCED TO BENCHMARK J20, NIAGARA FALLS CITY DATA.

SCALE IN FEET
0 40' 80'

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
OVERBURDEN WATER LEVELS
MARCH 2025

DRAWN BY:	NGS	PROJ. NO.:	624035
CHECKED BY:	TP		
APPROVED BY:	DM		FIGURE 5
DATE:	MARCH 2025		

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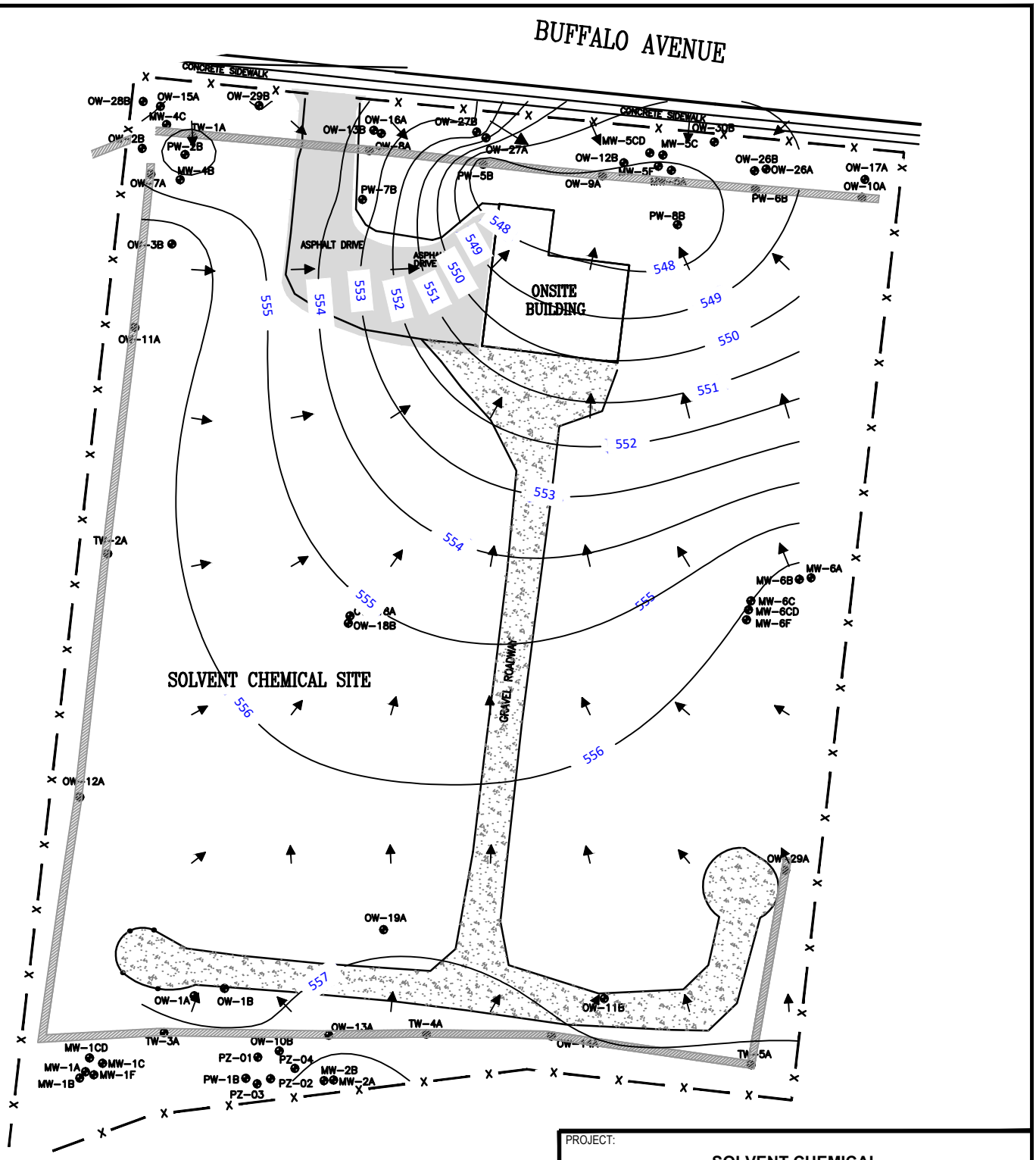
FILE NO.: Fig 3-5_AZONE_WATERLEVELS 2024-25.dwg



LEGEND:

556 GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

—X— CHAIN LINK FENCE

PW,OW,MW SOLVENT PUMPING OR MONITORING WELL

SCALE IN FEET

0 80' 160'

PROJECT:

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:

GROUNDWATER CONTOURS
SOLVENT SITE
MARCH 19, 2024

DRAWN BY:	NGS	PROJ NO.:	624035
CHECKED BY:	RV, EM		
APPROVED BY:	DM		**FIGURE 6**
DATE:	MARCH 2024		

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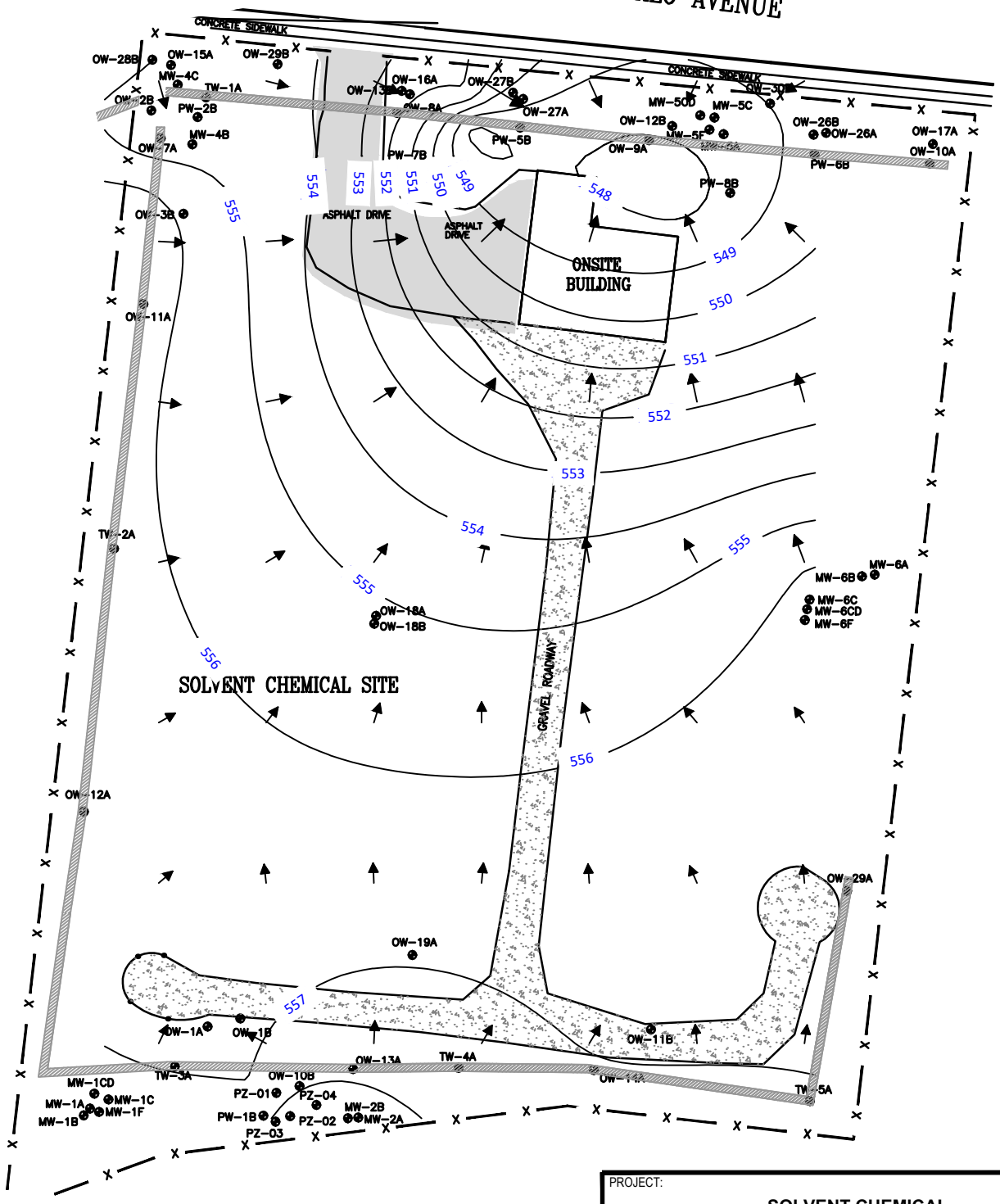
FILE NO.: Fig 5-8 Contours 2024-03 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\273897 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 202X\Figures\surfer - 2024-03\Fig 5-8 Contours 2024-03 NS.dwg



LEGEND:

556 GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

—X— CHAIN LINK FENCE

PW,OW,MW SOLVENT PUMPING OR MONITORING WELL

SCALE IN FEET

0 80' 160'

PROJECT:

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:

GROUNDWATER CONTOURS
SOLVENT SITE
SEPTEMBER 2024

DRAWN BY:	NGS	PROJ NO.:	624035
CHECKED BY:	RV, EM		
APPROVED BY:	DM		**FIGURE 7**
DATE:	SEPTEMBER 2024		

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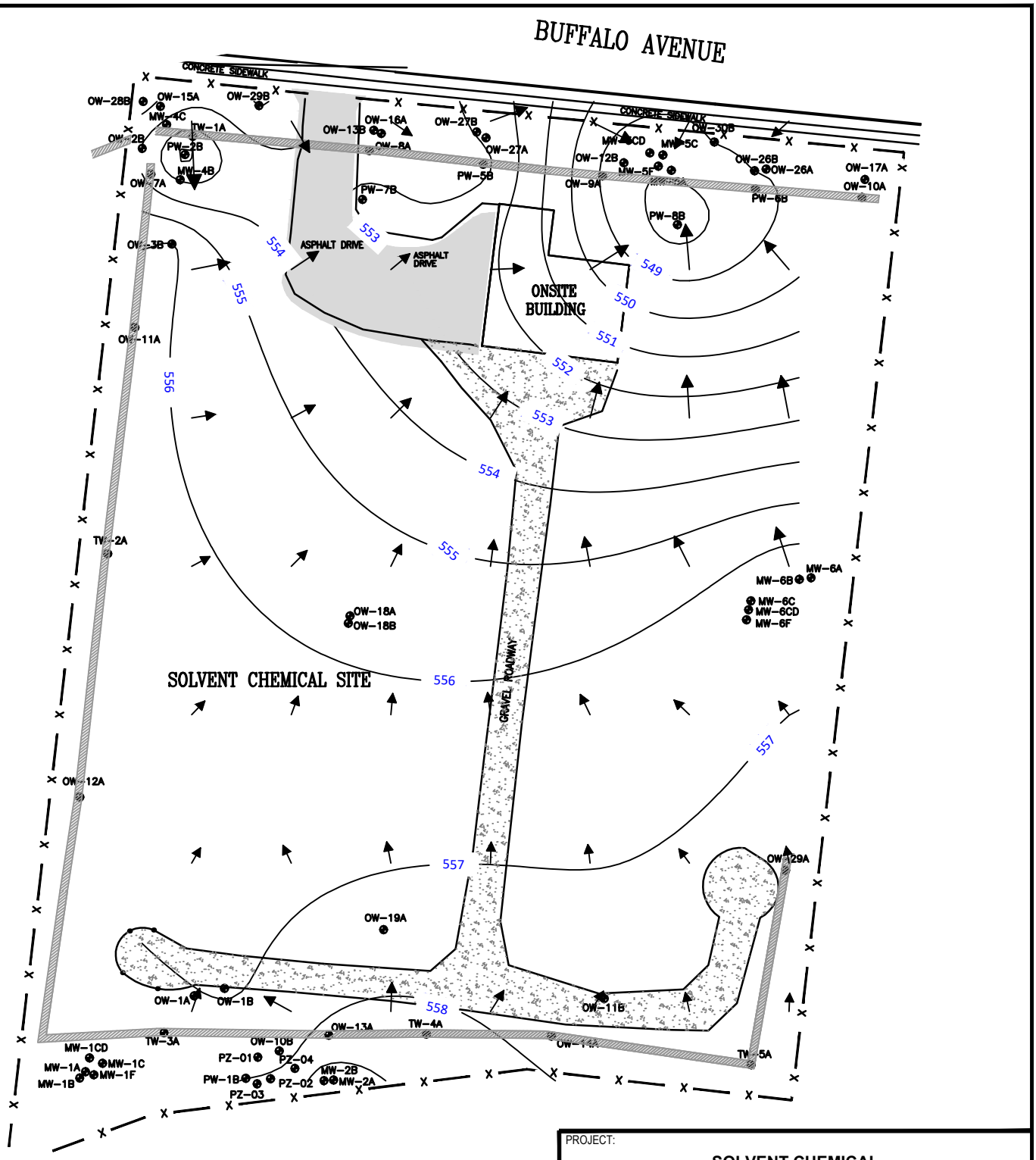
FILE NO.: Fig 5-8 Contours 2024-09 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\273897 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 202X\Figures\Surfer 2024-09\Fig 5-8 Contours 2024-09 NS.dwg



LEGEND:

556 GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

—X— CHAIN LINK FENCE

PW,OW,MW SOLVENT PUMPING OR MONITORING WELL

SCALE IN FEET

0 80' 160'

PROJECT:

SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:

GROUNDWATER CONTOURS
SOLVENT SITE
MARCH 2025

DRAWN BY:	NGS	PROJ NO.:	624035
CHECKED BY:	LC		
APPROVED BY:	DM		**FIGURE 8**
DATE:	MARCH 2025		

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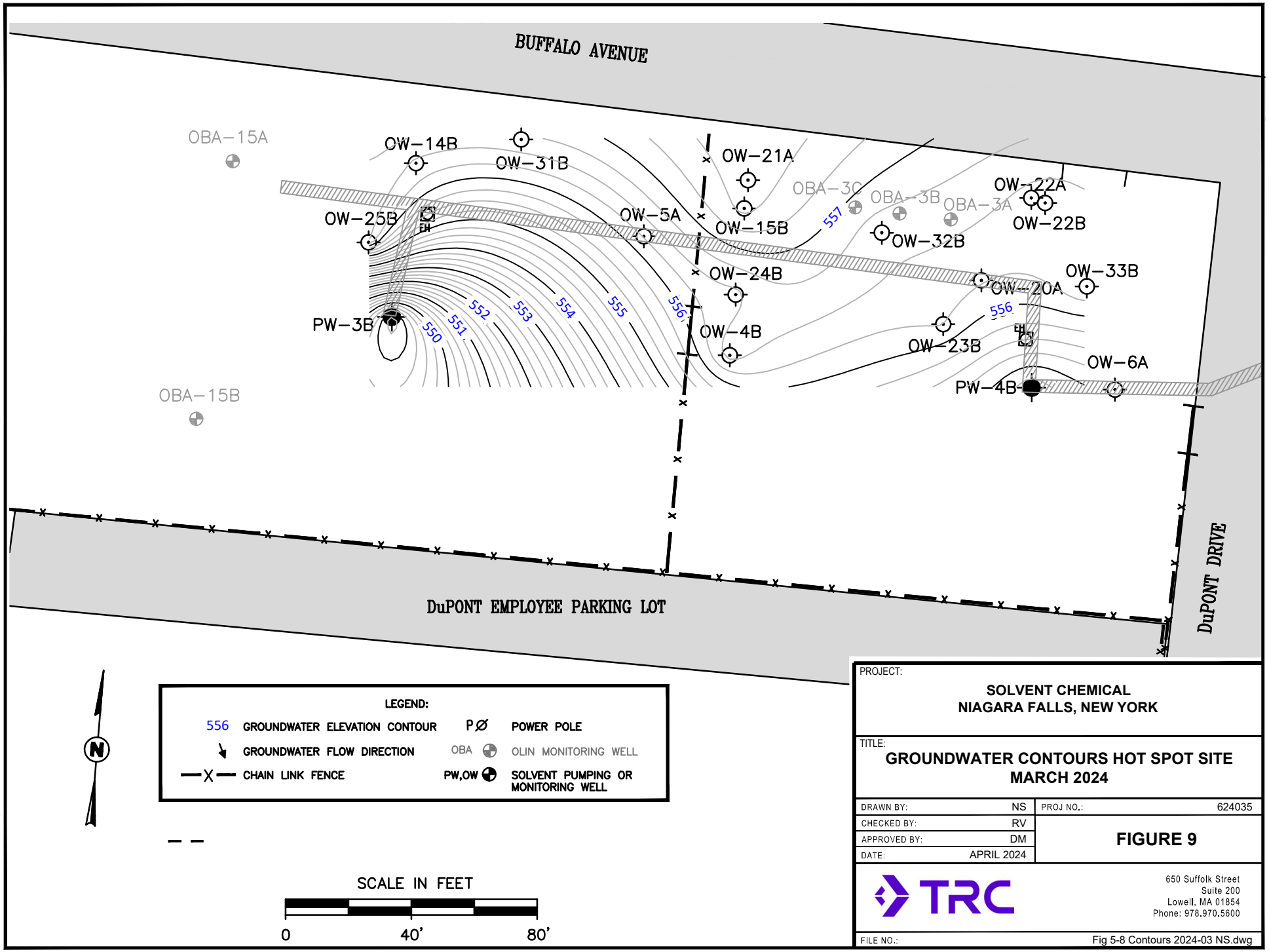
FILE NO.: Fig 5-8 Contours 2025-03 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\27397 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 202X\Figures\Surfer 2025-03\Fig 5-8 Contours 2025-03 NS.dwg



PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
GROUNDWATER CONTOURS HOT SPOT SITE
MARCH 2024

DRAWN BY:	NS	PROJ NO.:	624035
CHECKED BY:	RV		
APPROVED BY:	DM		**FIGURE 9**
DATE:	APRIL 2024		

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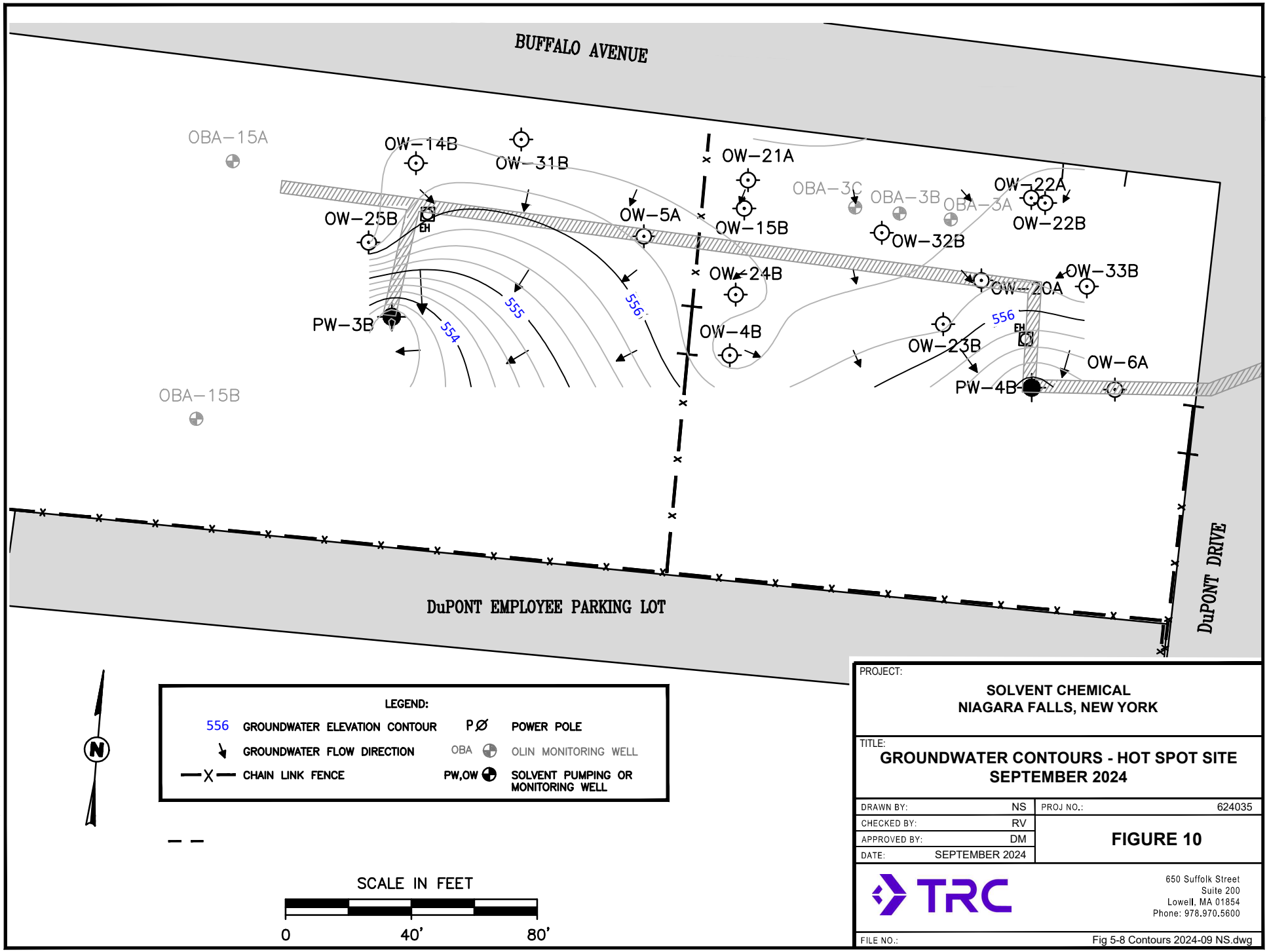
FILE NO.: Fig 5-8 Contours 2024-03 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\27397 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 2024\Figures\arter - 2024-03\Fig 5-8 Contours 2024-03 NS.dwg



PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
GROUNDWATER CONTOURS - HOT SPOT SITE
SEPTEMBER 2024

DRAWN BY:	NS	PROJ NO.:	624035
CHECKED BY:	RV		
APPROVED BY:	DM		**FIGURE 10**
DATE:	SEPTEMBER 2024		

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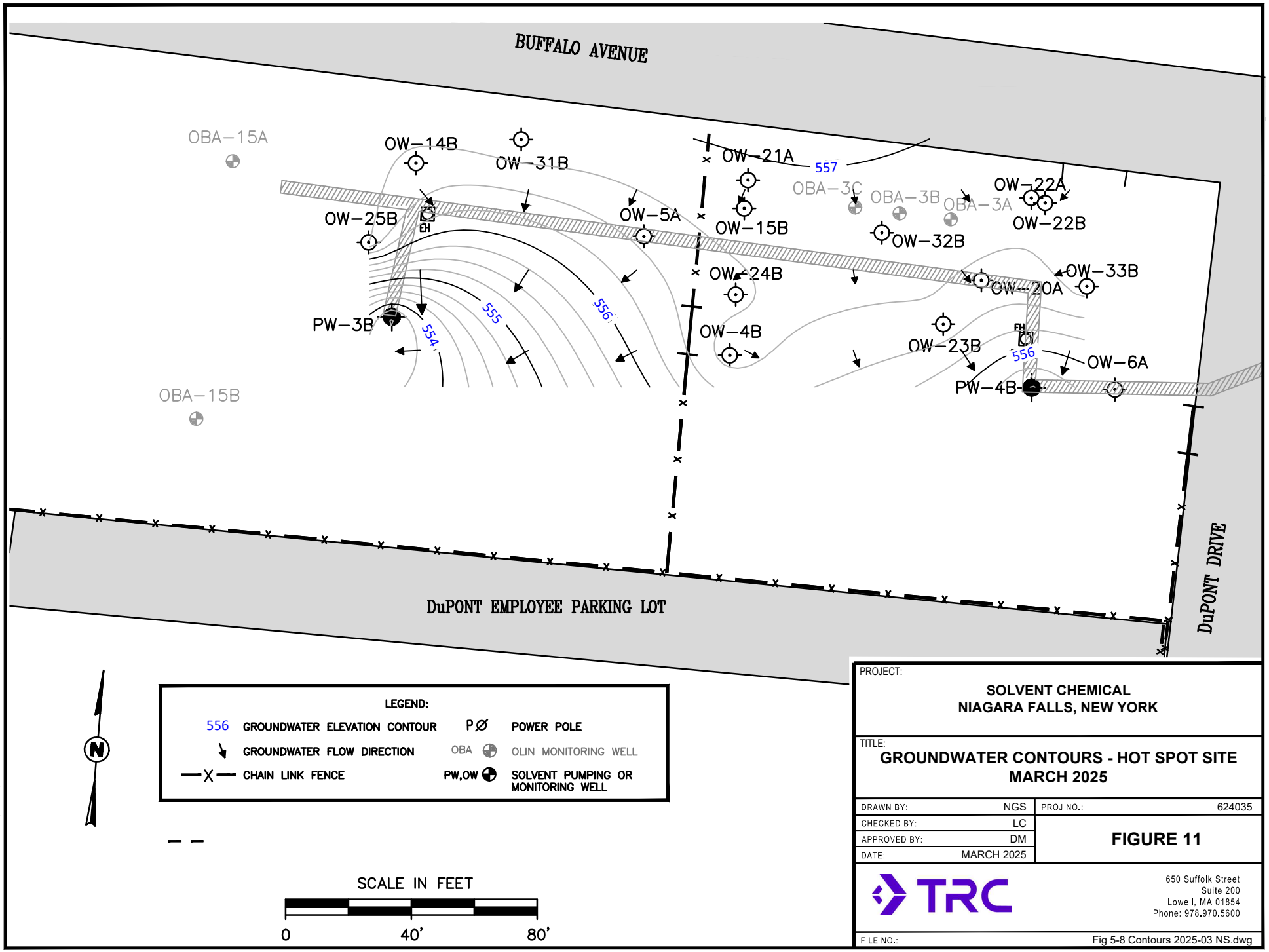
FILE NO.: Fig 5-8 Contours 2024-09 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\27397 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 2024\Figures\Surfer 2024-09\Fig 5-8 Contours 2024-09 NS.dwg



PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
GROUNDWATER CONTOURS - HOT SPOT SITE
MARCH 2025

DRAWN BY:	NGS	PROJ NO.:	624035
CHECKED BY:	LC		
APPROVED BY:	DM		**FIGURE 11**
DATE:	MARCH 2025		

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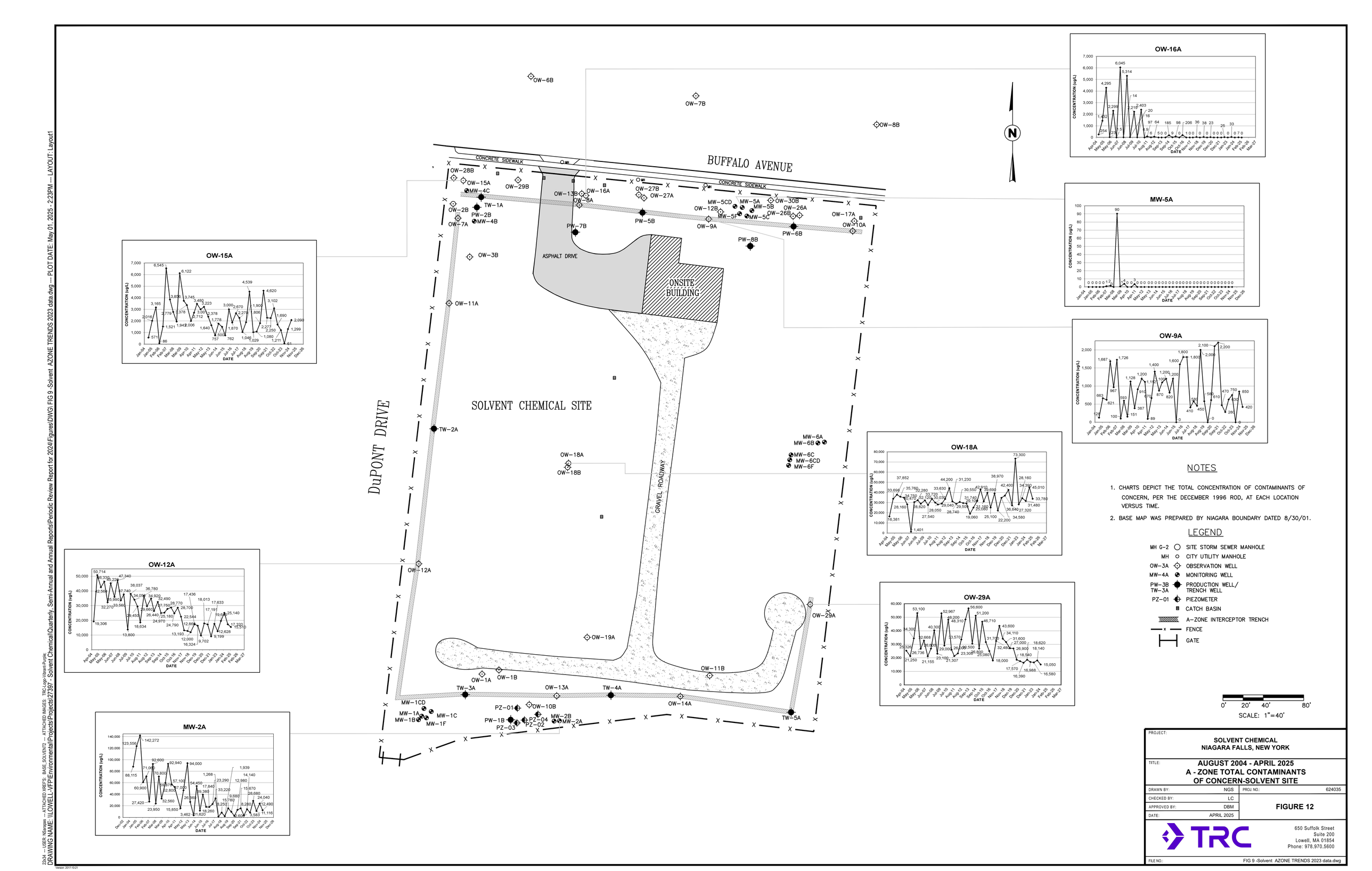
FILE NO.: Fig 5-8 Contours 2025-03 NS.dwg

FILE: \\LOWELL-WFP\Environmental\Projects\Projects\27397 - Solvent Chemical\Quarterly, Semi-Annual and Annual Reports\Periodic Review Report for 2024\Figures\Surfer 2025-03\Fig 5-8 Contours 2025-03 NS.dwg



NOTES

1. CHARTS DEPICT THE TOTAL CONCENTRATION OF CONTAMINANTS OF CONCERN, PER THE DECEMBER 1996 ROD, AT EACH LOCATION VERSUS TIME.
2. BASE MAP WAS PREPARED BY NIAGARA BOUNDARY DATED 8/30/01.

LEGEND

- MH G-2 — SITE STORM SEWER MANHOLE
- MH — CITY UTILITY MANHOLE
- OW-3A — OBSERVATION WELL
- MW-4A — MONITORING WELL
- PW-3B / TW-3A — PRODUCTION WELL/ TRENCH WELL
- PZ-01 — PIEZOMETER
- CATCH BASIN
- A-ZONE INTERCEPTOR TRENCH
- FENCE
- GATE

0' 20' 40' 80'

SCALE: 1"=40'

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
AUGUST 2004 - APRIL 2025
A - ZONE TOTAL CONTAMINANTS OF CONCERN-SOLVENT SITE

DRAWN BY:	NGS	PROJ. NO.:	624035
CHECKED BY:	LC		
APPROVED BY:	DBM		
DATE:	APRIL 2025		

FIGURE 12

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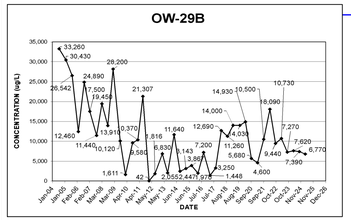
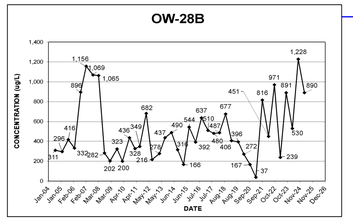
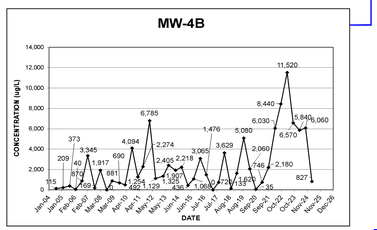
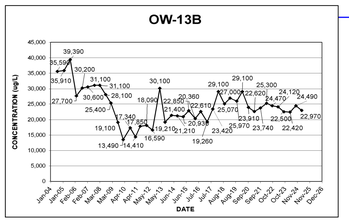
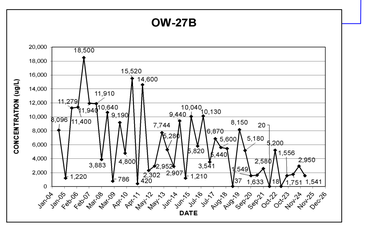
FILE NO.: FIG 9 -Solvent AZONE TRENDS 2023 data.dwg

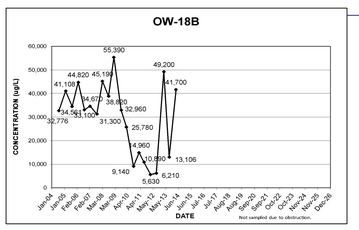


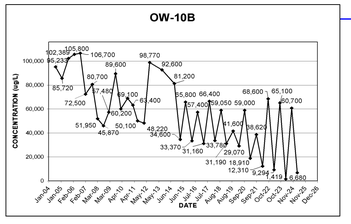


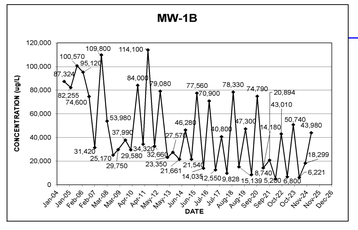


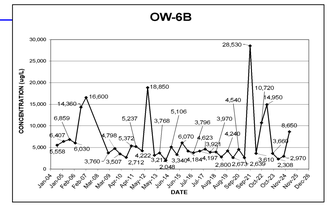


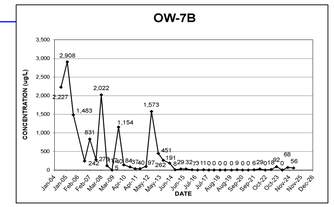


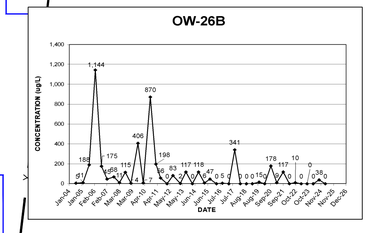


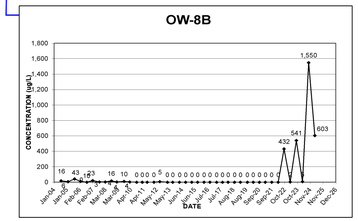


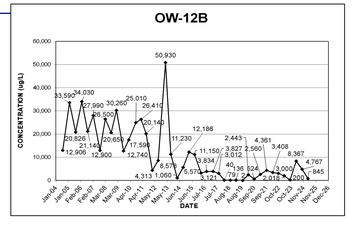


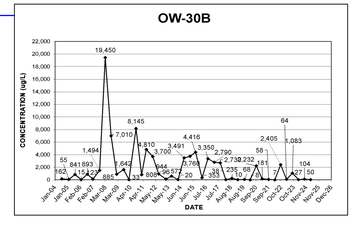


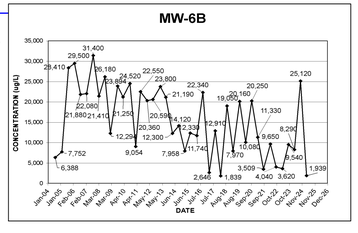


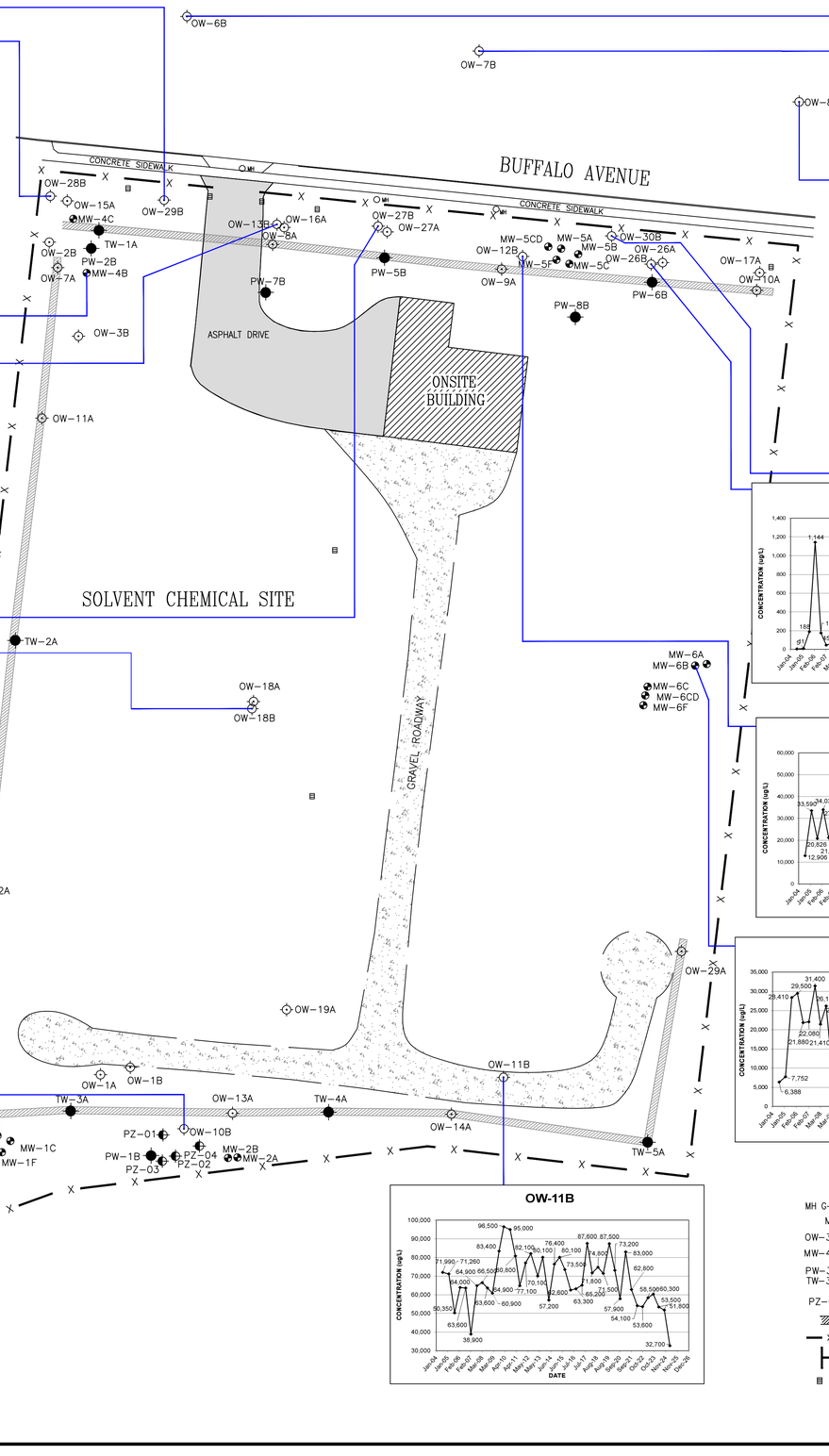












NOTES

1. CHARTS DEPICT THE TOTAL CONCENTRATION OF CONTAMINANTS OF CONCERN, PER THE DECEMBER 1996 ROD, AT EACH LOCATION VERSUS TIME.
2. BASE MAP WAS PREPARED BY NIAGARA BOUNDARY DATED 8/30/01.

0' 20' 40' 80'

SCALE: 1"=40'

LEGEND

- MH G-2 — SITE STORM SEWER MANHOLE
- MH — CITY UTILITY MANHOLE
- OW-3A — OBSERVATION WELL
- MW-4A — MONITORING WELL
- PW-3B / TW-3A — PRODUCTION WELL/ TRENCH WELL
- PZ-01 — PIEZOMETER
- A-ZONE INTERCEPTOR TRENCH
- FENCE
- GATE
- CATCH BASIN

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

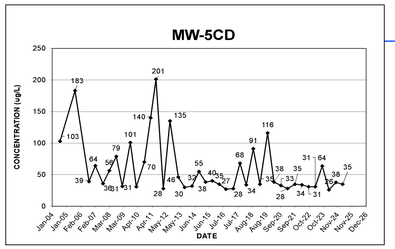
TITLE:
AUGUST 2004 - APRIL 2025
B - ZONE TOTAL CONTAMINANTS OF CONCERN - SOLVENT SITE

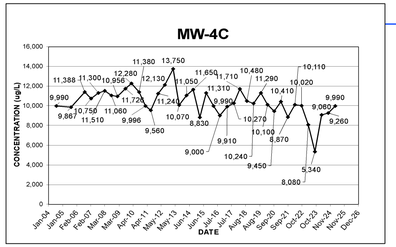
DRAWN BY:	NS	PROJ. NO.:	624035
CHECKED BY:	DBM		
APPROVED BY:	DBM		
DATE:	APRIL 2025		

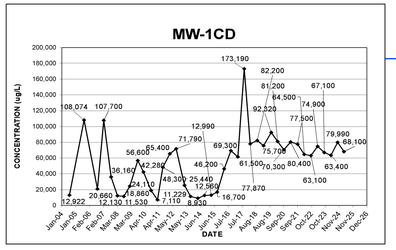
FIGURE 13

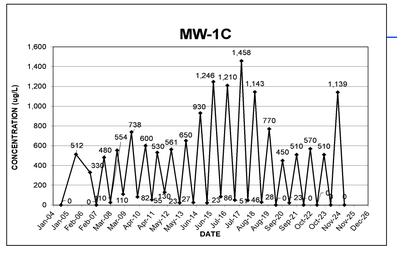
TRC
650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

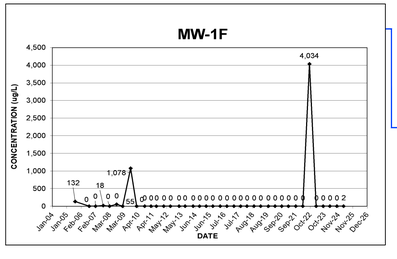
FILE NO.: FIG 10 - Solvent BZONE TRENDS 2024.dwg

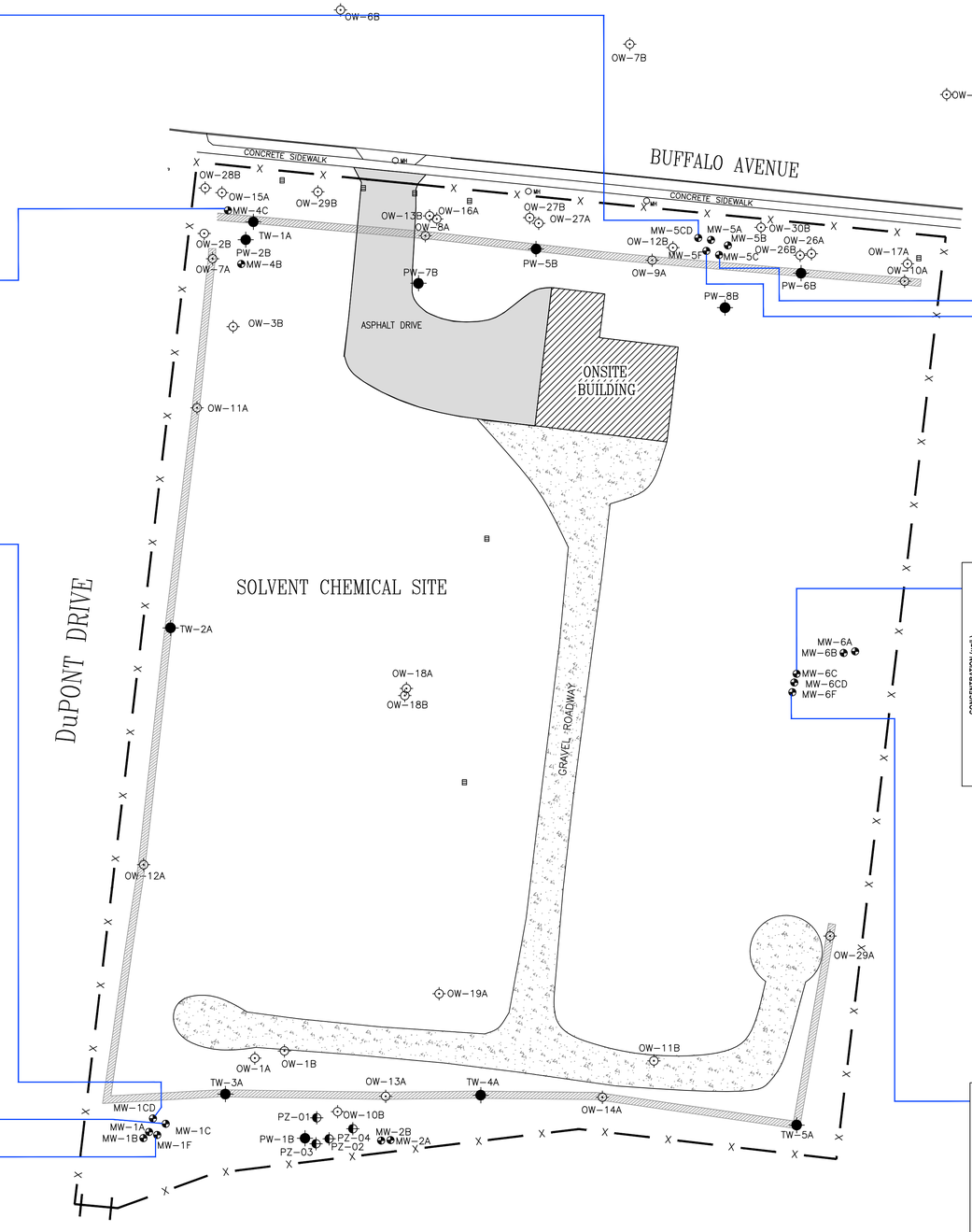


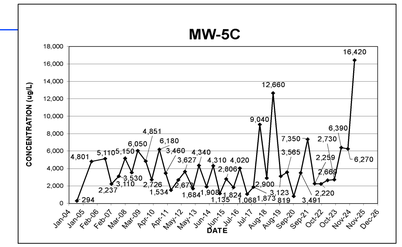


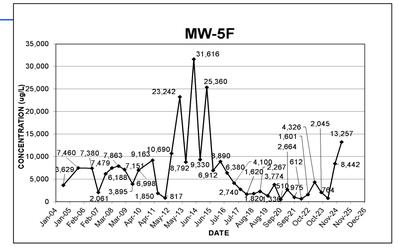


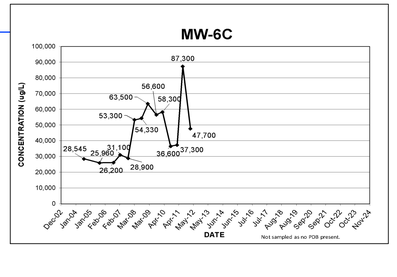


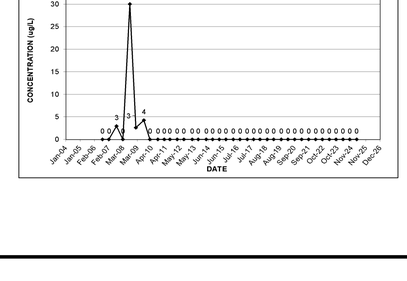












N

NOTES

1. CHARTS DEPICT THE TOTAL CONCENTRATION OF CONTAMINANTS OF CONCERN, PER THE DECEMBER 1996 ROD, AT EACH LOCATION VERSUS TIME.
2. BASE MAP WAS PREPARED BY NIAGARA BOUNDARY DATED 8/30/01.

LEGEND

- MH G-2 — SITE STORM SEWER MANHOLE
- MH — CITY UTILITY MANHOLE
- OW-3A — OBSERVATION WELL
- MW-4A — MONITORING WELL
- PW-3B / TW-3A — PRODUCTION WELL / TRENCH WELL
- PZ-01 — PIEZOMETER
- CATCH BASIN
- A-ZONE INTERCEPTOR TRENCH
- FENCE
- GATE

0' 20' 40' 80'

SCALE: 1"=40'

PROJECT: SOLVENT CHEMICAL, NIAGARA FALLS, NEW YORK

TITLE: AUGUST 2004 - APRIL 2025
C, CD, AND F - ZONES TOTAL CONTAMINANTS OF CONCERN - SOLVENT SITE

DRAWN BY:	NGS	PROJ. NO.:	624035
CHECKED BY:	DBM		
APPROVED BY:	DBM		FIGURE 14
DATE:	APRIL 2025		

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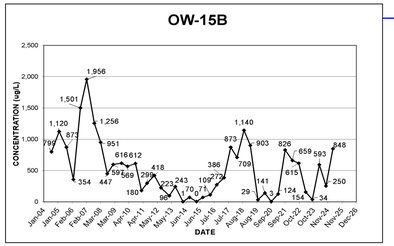
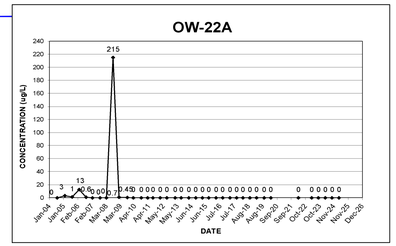
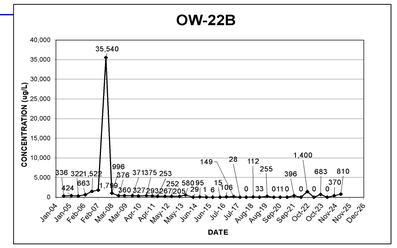
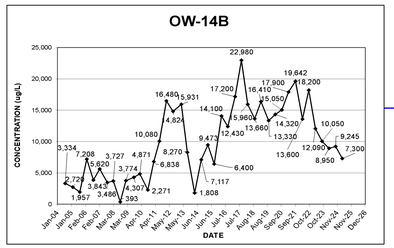
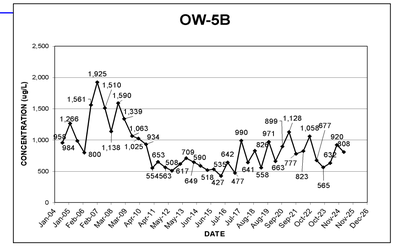
FILE NO.: FIG 11 - Solvent C CD & F ZONES TRENDS 2024.dwg











OBA–13C
OBA–13A
OBA–13B

BUFFALO AVENUE

CONCRETE SIDEWALK

CONCRETE SIDEWALK

OBA–15A

OW–14B

OW–31B

OW–21A

OW–22A

OBA–3C
OBA–3B
OBA–3A

OW–22B

OW–25B

OW–5A

OW–15B

OW–32B

OW–24B

HOT SPOT

OW–20A

OW–33B

DuPONT DRIVE

OW–4B

OW–23B

OW–5B

PW–3B

PW–4B

OW–6A

OBA–15B

OLIN CHEMICAL SITE

OBA–14B
OBA–14C
OBA–14A

OBA–4A

NOTES

1. CHARTS DEPICT THE TOTAL CONCENTRATION OF CONTAMINANTS OF CONCERN, PER THE DECEMBER 1996 ROD, AT EACH LOCATION VERSUS TIME.
2. BASE MAP WAS PREPARED BY NIAGARA BOUNDARY DATED 8/30/01.

LEGEND

OW–3A	OBSERVATION WELL
MW–4A	MONITORING WELL
PW–3B TW–3A	PRODUCTION WELL/ TRENCH WELL
OBA–14B	OLIN CHEMICAL MONITORING WELL
x	FENCE
	GATE

0 30 60
SCALE : 1" = 30'

PROJECT:
SOLVENT CHEMICAL
NIAGARA FALLS, NEW YORK

TITLE:
AUGUST 2004 - APRIL 2025
A AND B - ZONES TOTAL CONTAMINANTS
OF CONCERN - HOT SPOT SITE

DRAWN BY:	NS	PROJ. NO.:	624035
CHECKED BY:	DBM		
APPROVED BY:	DBM		FIGURE 15
DATE:	APRIL 2025		

TRC
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FILE NO.: FIG 12 - Solvent HOTSPOT TRENDS 2024.dwg