Groundwater Extraction System and Select Well Decommissioning Work Plan

Former Leica, Inc. Facility

PREPARED FOR
Leica, Inc.

DATE
28 October 2026

REFERENCE
NYSDEC Site No. 915156



SIGNATURE PAGE

Groundwater Extraction System and Select Well Decommissioning Work Plan

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I, Stephen Mirabello, PE certify that I am currently a New York State registered professional engineer and that this Groundwater Extraction System Decommissioning Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).



_____

Stephen A. Mirabello, P.E.

Principal Engineer

ERM Consulting & Engineering, Inc.

Date: 28 October 2026

SIGNATURE PAGE

Groundwater Extraction System and Select Well Decommissioning Work Plan

Former Leica, Inc. Facility

NYSDEC Site No. 915156

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ACRONYMS AND ABBREVIATIONS

Acronym	Description
CP	Commissioner Policy
DER	Division of Environmental Remediation
ERM	Environmental Resources Management
GWES	Groundwater Extraction System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
OSHA	Occupational Safety and Health Administration
PRB	Permeable Reactive Barrier
SSDS	Sub-Slab Depressurization System

1. INTRODUCTION

ERM Consulting & Engineering, Inc. (ERM) prepared this Groundwater Extraction System and Select Well Decommissioning Work Plan (herein referred to as "Work Plan") on behalf of Leica, Inc. (Leica) to support the decommissioning of the legacy groundwater extraction system located on the eastern portion of the former Leica facility located at 203 Eggert Road in Cheektowaga, New York (the Site), as shown in Figure 1.

The Site is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 915156. This *Groundwater Extraction System and Well Decommissioning Work Plan* documents the plan for the permanent shutdown and removal of the existing groundwater extraction system on Site.

2. SITE BACKGROUND

2.1 PROPERTY DESCRIPTION

The Site is in Cheektowaga, Erie County, New York and is identified as Section 91.00, Block 1, Lot 26.12 (owned by 203 Eggert Road Properties, LLC) and Lot 26.11 (owned by Leica, Inc.) on the Town of Cheektowaga Tax Map. The Site is approximately 24 acres of commercial land located in a mixed commercial and residential area. It is bound by Sugar Road and Saint Stanislaus Cemetery to the north, Saint John's Cemetery to the east, single-family residential dwellings to the south, and Eggert Road and a vacant, undeveloped lot to the west.

The Site has an approximately 360,000-square-foot multi-story brick building (the "Main Building") and an approximately 325-square-foot single-story brick pump house. The Main Building was originally built in 1938 and reached its current configuration in 1967. The Main Building is currently vacant and in disrepair. The remainder of the Site is either asphalt-paved parking or landscaped. The Site topography is generally flat.

Historical manufacturing activities resulted in chlorinated volatile organic compound (CVOC) impacts to Site soil, groundwater, and soil vapor. A groundwater extraction system (GWES), which was installed in the southeast corner of the Site in December 1999 to limit migration of groundwater containing CVOCs from an area where contaminated soils were previously excavated. The pumping well, MW-11A, contains a submersible pump equipped with a variable frequency drive and electronic transducer.

2.2 BASIS FOR DECOMMISSIONING ACTIVITIES

The GWES was inactivated on 4 June 2024 following New York State Department of Environmental Conservation (NYSDEC) approval. The *Periodic Review Report* (ERM 2024a) included a recommendation to permanently terminate operation of the GWES after a 3-month trial shutdown. The *Groundwater Extraction System Shutdown Test Report* (ERM 2024b) concluded that the GWES reached asymptotic conditions with respect to contaminant mass recovery and that it is no longer a viable remedy for the Site. In response to this document, NYSDEC requested completion of a series of investigation and monitoring activities in the vicinity of the GWES, which included the collection of storm and sanitary sewer samples in November 2025 and March 2026 to evaluate potential preferential migration pathways for COCs in groundwater. These results were submitted to NYSDEC (ERM 2026a; ERM 2026b), who

subsequently approved permanent shutdown of the GWES and requested the submittal of a Decommissioning Work Plan for the GWES and associated pumping well MW-11A in a letter dated 19 May 2026.

In addition to the GWES decommissioning, there are four monitoring wells on Site that have consistently been dry and therefore unable to be sampled: MW-40, MW-42, MW-43, and MW-45. ERM requested permission to decommission these wells in the *Semi-Annual Groundwater Monitoring Program Adjustment* memo (ERM 2025) on 25 April 2025, and this request was approved by NYSDEC on 19 August 2025.

3. GENERAL IMPLEMENTATION INFORMATION

3.1 PERMITTING REQUIREMENTS

Prior to implementation of the Work Plan, ERM will coordinate with applicable utility providers to obtain any permits, approvals, notifications, or service disconnections required to complete the work safely. Potential requirements may include permits associated with deenergizing and removing the electrical service associated with MW-11A, or those associated with abandonment of the existing sanitary sewer discharge connection.

3.2 SCOPE OF WORK

This project will be performed in two phases, described as follows:

- Phase I: Decommissioning of four monitoring wells (MW-40, MW-42, MW-43, and MW-45)
    - Mobilization and Site preparation
    - Monitoring well and extraction well decommissioning
    - Waste management and disposal
- Phase II: Decommissioning of the GWES
    - Mobilization and Site preparation
    - System shutdown and isolation
    - Removal and staging of GWES components
    - Waste management and disposal
    - Demobilization

This scope of work will not be implemented without approval by NYSDEC and field activities will commence at least seven calendar days after notification is provided to NYSDEC in accordance with DER-10, Section 1.4(c) (NYSDEC 2010a).

3.2.1 PHASE I – WELL DECOMMISSIONING

3.2.1.1 MOBILIZATION AND SITE PREPARATION

Mobilization will include delivery of equipment, materials, and personnel to the Site. The selected contractor will supply qualified labor (trained as required in Hazardous Waste Operations and Emergency Response [HAZWOPER]) and certified in accordance with OSHA

1910.120. Site health and safety orientations will be provided to familiarize personnel with the Site's Health and Safety Plan (HASP) as part of mobilization activities. In addition, insurance and licenses required to complete the scope of work will be in place prior to mobilization.

Utility clearance activities will be completed prior to any ground disturbance activities and will be managed in accordance with ERM's subsurface clearance procedures, developed to minimize the potential for striking subsurface infrastructure. A public utility locate will be completed as required by law.

3.2.1.2 WELL DECOMMISSIONING

The locations of the four monitoring wells and one extraction well to be decommissioned are presented in Figure 2. The monitoring wells and extraction well will be decommissioned in accordance with NYSDEC Commissioner Policy (CP-43) on Groundwater Monitoring Well Decommissioning. Specifications of the wells are presented in Table 1 below. Well construction logs are presented in Appendix C.

TABLE 1 WELL SPECIFICATIONS FOR DECOMMISSIONING

Well ID	Depth (ft)	Diameter of Casing (in)	Casing Material	Borehole Diameter (in)	Type of Well
MW-11A	36.2	8	Steel	8	Bedrock
MW-40	7.0	2	PVC	5.25	Overburden
MW-42	8.0	2	PVC	5.25	Overburden
MW-43	9.5	2	PVC	5.25	Overburden
MW-45	8.0	2	PVC	5.25	Overburden

Surface completions, including protective casings, locks, and well caps, will be removed as necessary to facilitate well abandonment. The submersible pump, associated wiring, and conveyance piping will be removed from extraction well MW-11A prior to decommissioning.

Each PVC well casing will be removed to the extent practicable, and the borehole will be abandoned via tremie grouting. If the casing cannot be removed, the well will be grouted in place in accordance with Section 2.1 and 6 of CP-43. Following completion of well decommissioning activities, topsoil will be placed at the surface and native grass seed spread to restore the surface to match the surroundings. Topsoil brought on-Site will be approved by NYSDEC prior to placement.

Bedrock extraction well MW-11A will be grouted in place in accordance with Sections 2.1 and 6 of CP-43. The well will be tremie grouted from the bottom of the borehole to the top of the steel casing, and the surface restored with crushed stone, consistent with the surrounding area of the property. Crushed stone brought on-Site will be approved by NYSDEC prior to placement.

3.2.1.3 WASTE MANAGEMENT AND DISPOSAL

Waste materials generated during well decommissioning may include wellhead components, protective casings, well casing materials, excess grout, and general construction debris. In

addition to the items listed above, the waste materials generated from extraction well MW-11A will also include a submersible pump and associated wiring and conveyance piping. ERM will perform waste characterization and profile development activities necessary to support off-Site disposal of investigation-derived and remedial wastes in accordance with the requirements of the selected receiving facility(ies).

Decontamination fluids may be generated as part of this decommissioning process. As the four monitoring wells are currently dry, minimal groundwater is anticipated to be encountered. Groundwater may, however, be encountered during the removal of the submersible pump and abandonment of the extraction well MW-11A. Any groundwater and decontamination fluids generated during the work will be containerized, characterized, and disposed of in accordance with applicable local, state, and federal regulations.

3.2.2 PHASE II – GWES DECOMISSIONING

3.2.2.1 MOBILIZATION AND SITE PREPARATION

Mobilization will include delivery of mobile construction equipment, materials, and personnel to the Site. Mobilization and Site preparation activities will be conducted in general accordance with the requirements described in Section 3.2.1.1. Personnel qualifications, health and safety requirements, Site orientation, insurance requirements, and utility clearance procedures described therein will also apply to Phase II decommissioning activities.

Additional Site preparation activities will include inspection of the GWES, establishment of equipment and waste staging areas, identification of utilities serving the GWES, and development of equipment and material access routes, as necessary. The Site will be accessed via the Sugar Road entrance. As a result, vehicle and pedestrian traffic is not anticipated to interfere with Site activities.

3.2.2.2 SYSTEM ISOLATION AND REMOVAL

Prior to decommissioning activities, the contractor will verify that the GWES is offline and isolated from active utility connections. Existing electrical service and control systems associated with the GWES will be identified and de-energized, as necessary, prior to removal activities. Electrical service will be maintained in part to support lighting, climate control, and continued operation of the SSDS associated with the primary onsite building. An electrical assessment may be required to facilitate isolation of the GWES components. Any remaining electrical connections will be disconnected and secured to prevent inadvertent operation during decommissioning.

Treatment system components, conveyance piping, instrumentation, and equipment will be disconnected and secured prior to removal activities. Conveyance piping and treatment system components will be inspected for residual liquids. Residual liquids encountered during decommissioning activities will be managed in accordance with the waste management procedures described in Section 3.2.2.4. Following isolation of utilities and system components, the GWES will be prepared for removal and staging.

3.2.2.3 REMOVAL AND STAGING OF GWES COMPONENTS

The two Conex boxes on the southeastern border of the Property will be inspected for residual debris, staining, and process materials. Accessible surfaces of the Conex boxes will be cleaned

with dry brushing, wiping, pressure washing, or other appropriate methods prior to equipment removal. Equipment within the boxes will be removed and decontaminated with similar methods. Components located within the Conex boxes are presented in Table 2 below.

TABLE 2 CONEX BOX COMPONENTS

Component	Action Required
Telemetry panel	Isolation and removal
Electrical service panel	Modified to maintain power to SSDS
Equalization tank	Decontamination and removal
Air stripping towers (2)	Decontamination and removal
Conveyance piping	Decontamination and removal
Process mechanical components (control system, pumps, flowmeter, blower skid, any ancillary components found during decommissioning activities)	Decontamination and removal
Miscellaneous debris	Decontamination and removal

In addition to the components listed above, the electrical panel associated with MW-11A will be deenergized and removed. The associated conveyance piping including piping between the pumping well and Conex box and from the GWES discharge point to the sanitary sewer manhole will be filled with low-strength (50-150 PSI) flowable fill and abandoned in place. Pipe ends will be capped flush with existing grade, as shown in Figure 3.

3.2.2.4 DECONTAMINATION, WASTE MANAGEMENT, AND DISPOSAL

Waste materials generated during GWES decommissioning may include treatment system equipment, pumps, blower skids, equalization tanks, conveyance piping, electrical and control components, miscellaneous debris, motors, residual liquids, and decontamination fluids. Components identified for removal will be temporarily staged on Site pending waste characterization.

Waste management and disposal activities will generally be conducted in accordance with the procedures described in Section 3.2.1.3. In addition, materials suitable for recycling, including metal equipment and components, will be segregated from waste materials, where practicable.

Residual liquids encountered during decommissioning activities and fluids generated during equipment decontamination will be containerized, characterized, and disposed of in accordance with applicable local, state, and federal regulations.

3.2.2.5 DEMOBILIZATION

Upon completion of decommissioning activities, demobilization will occur. Temporary modifications made to the Site as part of the decommissioning activities, such as the potential staging of equipment, will be removed. Generated trash and associated containers will be removed and disposed of in accordance with applicable local, state, and federal regulations. Equipment used for decommissioning and materials scheduled for demobilization will be

decontaminated by dry brushing, wiping, pressure washing, or other appropriate cleaning methods prior to leaving the Site in accordance with the procedures listed in Section 4.2.

4. SUPPORTING PLANS

4.1 CONTINGENCY PLAN

If subsurface structures or other previously unidentified impacted materials are discovered, they will be reported to NYSDEC. Recognizing the need for flexibility when encountering unknowns, this plan does not predetermine the sampling and analytical methods or other corrective actions. At the time of discovery, and if it is safe to do so, visual and olfactory observations will be made and photoionization detector readings will be collected. Based on the initial screening, a more thorough sampling plan may be developed, if warranted. NYSDEC will be notified via email within 24 hours of the event. Notification will include initial observations and recommendations on how to proceed.

4.2 DECONTAMINATION PLAN

Decontamination procedures will be implemented during decommissioning activities to facilitate the proper handling, transportation, and disposal of equipment and materials removed from the Site. A designated decontamination area will be established in a secure location and lined with polyethylene sheeting to contain wash water, residual materials, and debris generated during decontamination activities. The area will be sized to accommodate the equipment being decommissioned and will include appropriate measures to prevent the migration of liquids. Decommissioned equipment will be triple-rinsed using a detergent and potable water wash, with all rinsate and decontamination wastes containerized. Equipment will be considered decontaminated when visible residue, debris and/or staining have been removed and no other evidence of residual contamination remains. As required by disposal or recycling facility, wipe, rinsate or other confirmation samples may be collected to confirm decommissioned equipment can be recycled or disposed of as non-hazardous. Decontamination fluids will be containerized and managed in accordance with Sections 3.2.1.3 and 3.2.2.4.

4.3 SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP)

ERM maintains a Site-specific HASP for activities conducted at the Site. The procedures set forth in the HASP are designed to minimize the risk of exposure to chemical and physical hazards that may be present at the Site. These procedures generally conform to applicable federal, state, and local regulations, including Occupational Safety and Health Administration requirements governing activities at hazardous waste sites contained in 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response). Specific practices and procedures, including the level of personal protective equipment, are based on a review of currently available information for the Site. Unforeseen hazards may be encountered during the investigation; therefore, personnel shall remain vigilant and exercise appropriate caution throughout field activities. The HASP does not attempt to establish rules to cover every contingency that may arise, but it does provide a basic framework for the safe completion of field activities and plans for reasonable contingencies.

5. PROJECT CLOSEOUT AND DOCUMENTATION

Upon completion of the well and GWES decommissioning activities, ERM will prepare a decommissioning summary documenting completed activities, any deviations from the Work Plan, photographic documentation, waste characterization data, transportation and disposal records, conveyance piping abandonment activities, all permits, and other relevant project records. The summary documentation will be submitted to the appropriate parties in accordance with applicable NYSDEC requirements, including CP-43. Additionally, changes to the groundwater monitoring network and remedial systems will be reflected in an Amended Site Management Plan.

6. SCHEDULE

Decommissioning activities are anticipated to follow the schedule below.

Activity	Timeframe
Phase I: Decommissioning of select monitoring wells	Fall 2026
Phase II: Decommissioning of Groundwater Extraction system	Spring 2027

7. REFERENCES

ERM, 2024a. Periodic Review Report. July 2024.

ERM, 2024b. Groundwater Extraction System Shutdown Test Report. November 2024.

ERM, 2025. Semi-Annual Groundwater Monitoring Program Adjustment. April 2025.

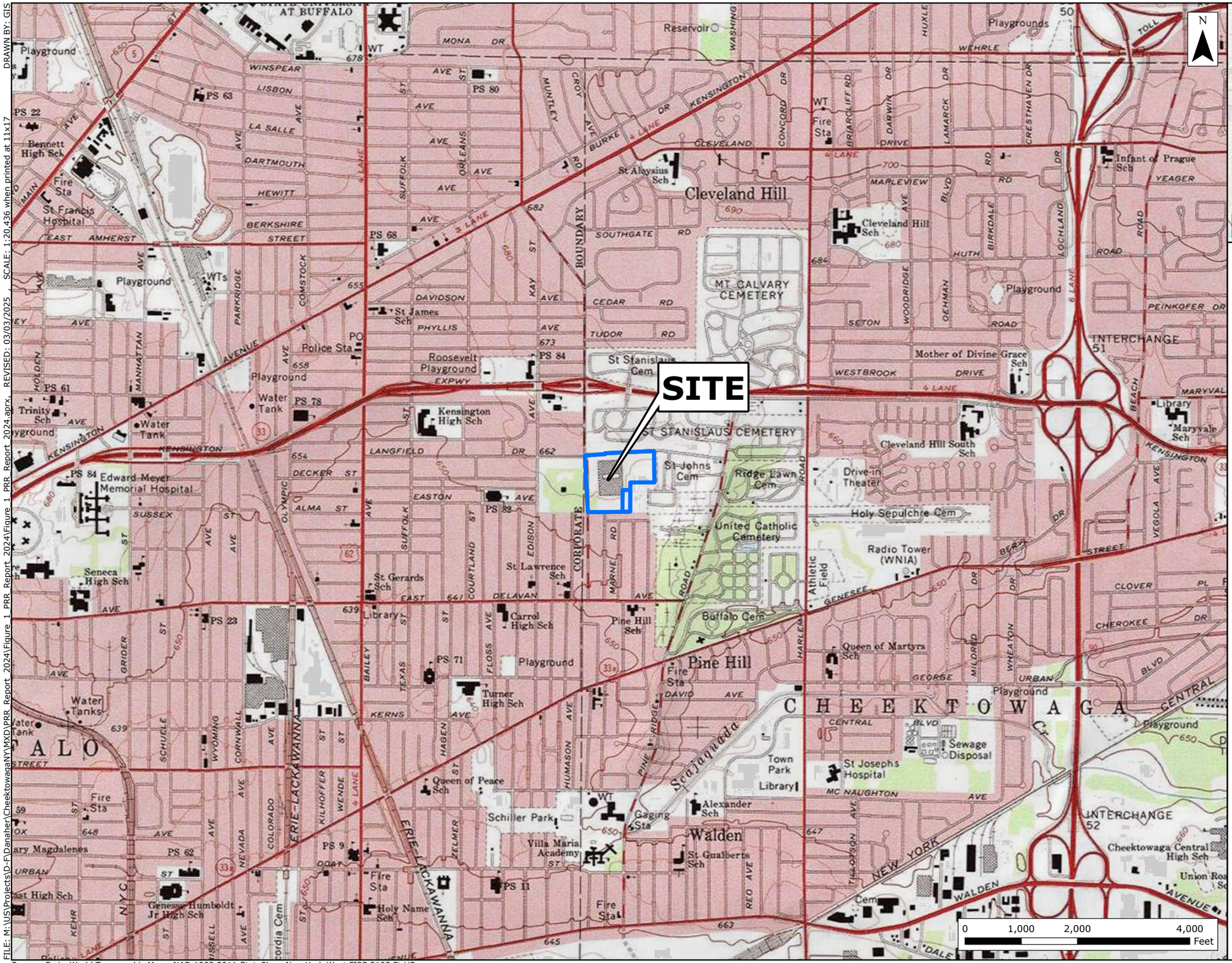
ERM, 2026a. Revised November 2025 Sewer Sampling Report. February 2026.

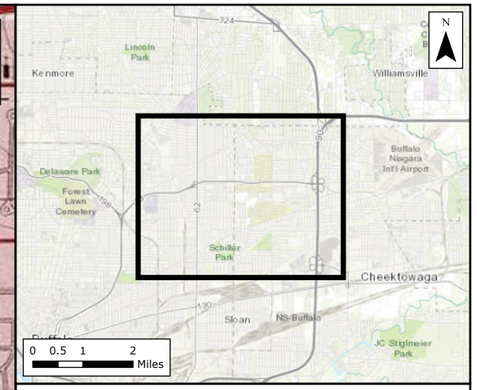
ERM, 2026b. November 2025 and March 2026 Sewer Sampling Report. April 2026.

NYSDEC, 2009. CP-43: Groundwater Monitoring Well Decommissioning Policy. New York State Department of Environmental Conservation, Albany, New York, November 2009.

NYSDEC, 2010. DER-10: Technical Guidance for Site Investigation and Remediation. NYSDEC Division of Environmental Remediation, Albany, New York, May 2010.

APPENDIX A FIGURES





Legend

Site Property Boundary

Notes:
- Source: USGS scanned topographic quad maps provided by National Geographic Society (© 2024).

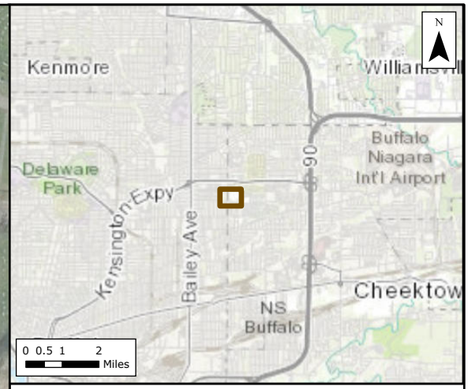
Figure 1
Site Location
Former Leica, Inc. Facility
203 Eggert Road
Cheektowaga, New York

ERM

Source: Esri - World Topographic Map; NAD 1983 2011 StatePlane New York West FIPS 3103 Ft US

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Legend

- Monitoring Well
- Extraction Well
- Building Outline
- Site Property Boundary

Notes:
- ESRI World Imagery. Reproduced under license with ArcGIS Pro 3.6.4.

Figure 2
Site Layout and Select Monitoring Wells
Former Leica, Inc. Facility
203 Eggert Road
Cheektowaga, New York

ERM

Source: Esri - World Topographic Map; NAD 1983 StatePlane New York West FIPS 3103 Feet

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Legend

- Extraction Well
- Sanitary Sewer Manhole

Utilities

- Electric
- Water
- Conex Box
- Electrical Box
- Building Outline
- Site Property Boundary

Notes:
- Imagery: Google Earth, June 2024.
- Existing utility locations are approximate; Contractor shall verify all utility locations in the field before commencing work

Figure 3
Groundwater Extraction System Features
Former Leica, Inc. Facility
203 Eggert Road
Cheektowaga, New York

ERM

Source: Esri - World Topographic Map; NAD 1983 StatePlane New York West FIPS 3103 Feet

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APPENDIX B PHOTOGRAPHIC LOG

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846

Ground Water Extraction System (GWES) Components to be Decomissioned, Decontaminated* and Disposed



PHOTO 1
GWES pumping well (MW-11A) and electrical conduit located in the SE corner of the Site. Submersible electric pump and float controls within well not pictured (photo facing SE).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 2
GWES control panel, mount and electrical conduit in SE corner of site (photo facing S).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 3
Interior of GWES control panel (photo facing S).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846

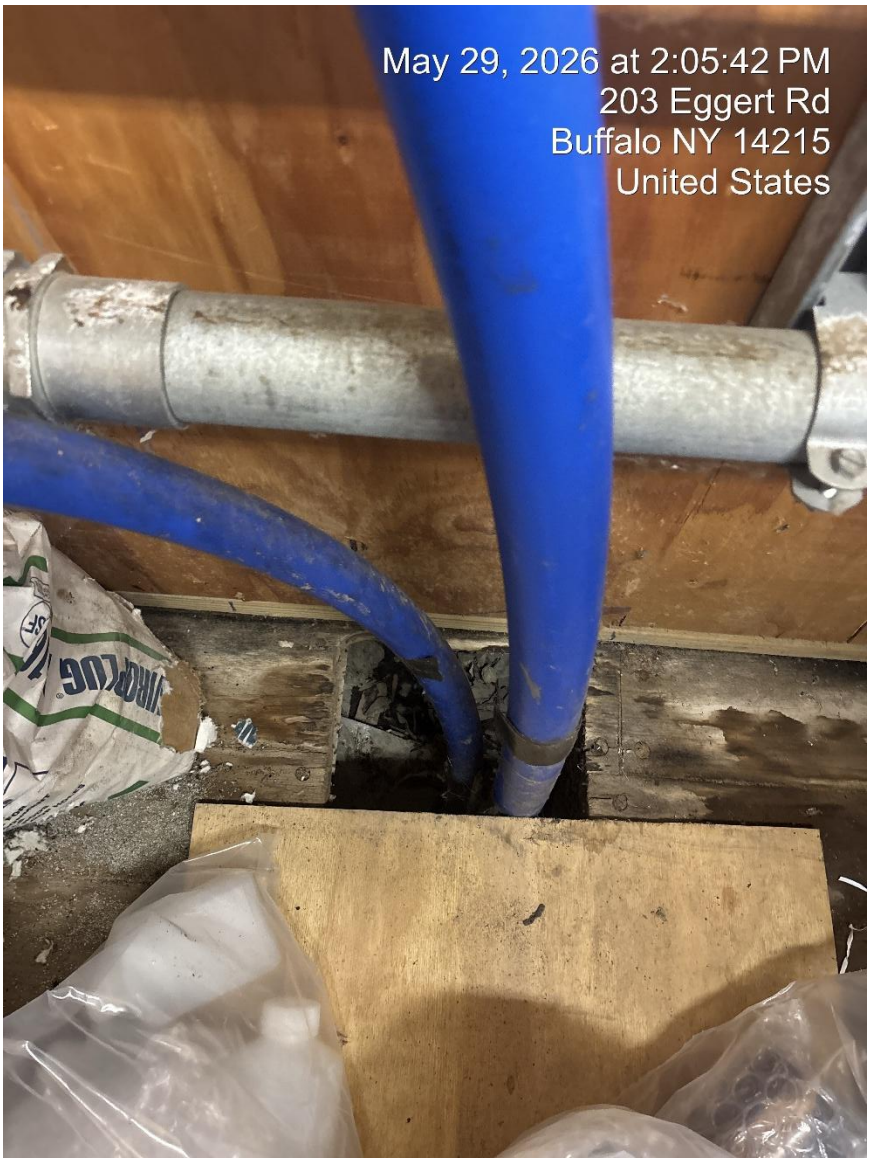


PHOTO 4
Flexible, below grade conveyance piping entering Southern trailer (photo facing N).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 5
Connection of flexible conveyance piping to schedule 80 PVC conveyance piping w/sample port within Southern Conex (photo facing W)

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 6
GWES control panel, flow meter, flow meter display, and electrical conduit within Southern Conex (photo facing S)

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846

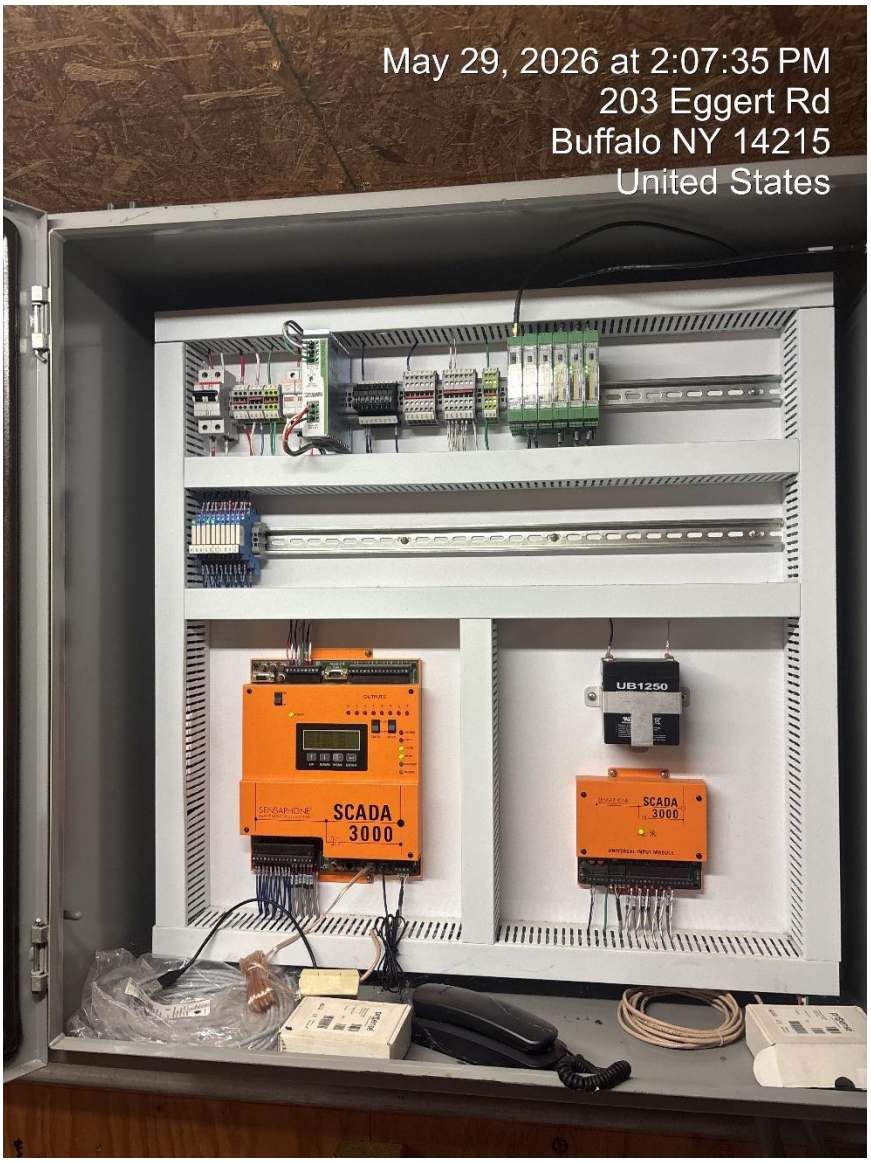


PHOTO 7
Interior of telemetry panel within Southern Conex (photo facing S)

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 8

GWES conveyance piping, vent line, sample valves, flow meter, flow meter display, and wiring within Southern Conex. Conveyance piping continues through the plywood wall before exiting the Conex along the Southern side (photo facing SE).

Previously Decomissioned Groundwater Treatment System Components to be Decontaminated* and Disposed



PHOTO 9
Previously decommissioned skid mounted blower system stored within Southern Conex, approximately 4.5’ x 8.25’. Additional conveyance piping from the current GWES (not pictured) runs behind the blower and exits the Conex on the Southern side (photo facing SW).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 10
Previously decommissioned skid mounted blower located between the Southern and Northern Conex, approximately 4.5’ x 8.25’ (photo facing E).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 11
Empty 275-gallon poly water storage tanks located adjacent to Southern Conex (photo facing SW).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 12
Mounted electrical components to be assessed and partially decommissioned, located West of Conex trailers (photo facing SE).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 13
Previously decommissioned air stripper towers stored within Northen Conex, approximately 1.7’ diameter and 8.5’ tall (photo facing W).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 14

Two decommissioned skid mounted blowers (approximately 4.5’ x 8.25’), electrical conduit, and electrical boxes within the Northern Conex (photo facing NE).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846



PHOTO 15

Skid mounted control and compressor system (approximately 7.5’ x 4.6’), equalization tank (approximately 3’ diameter and 8.5’ tall), conveyance piping and electrical conduit within Northen Conex (photo facing W).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846

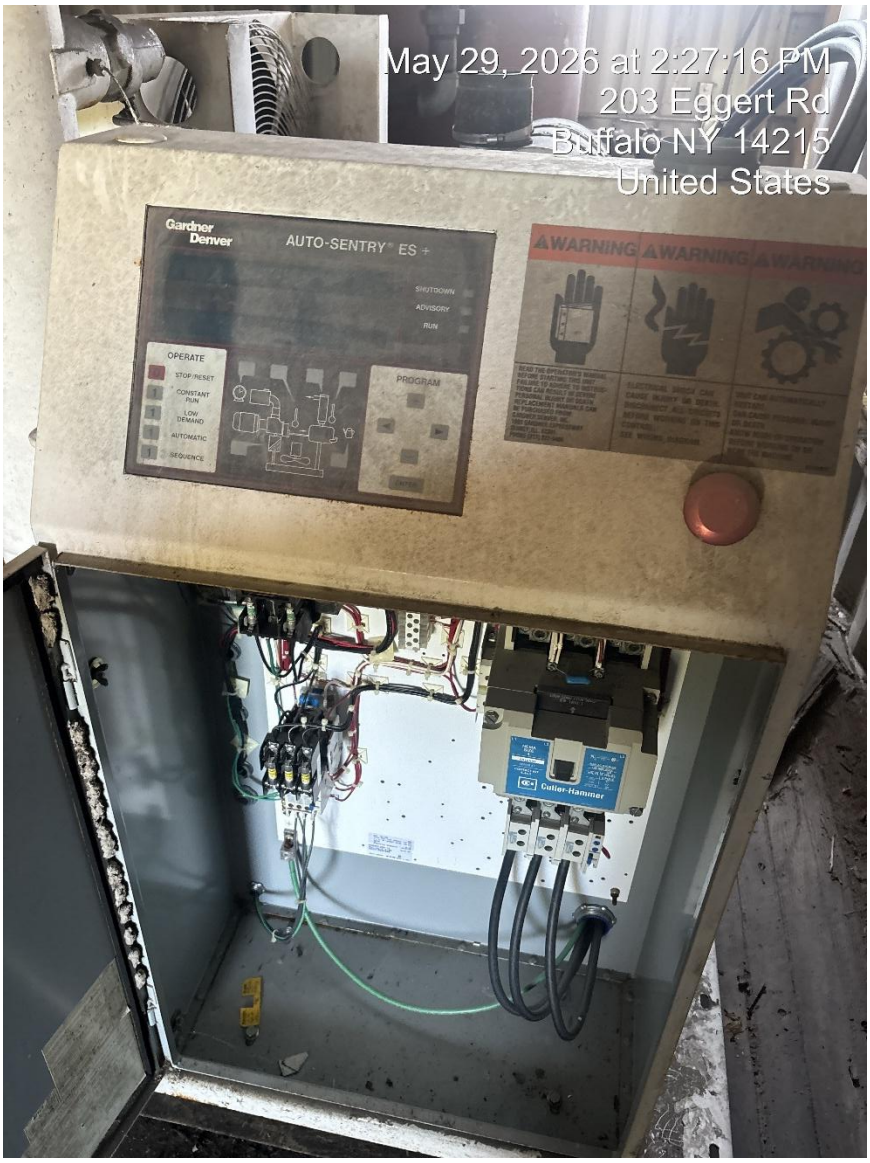


PHOTO 16
Interior of decommissioned control system within Northern Conex (photo facing W)

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846





PHOTO 17

Conveyance piping and filters connected to decommissioned equalization tank within Northern Conex (left photo facing SW, right photo facing W).

Photographic Log

CLIENT: Leica, Inc.	SITE LOCATION: 203 Eggert Road, Cheektowaga, New York	PROJECT NO.: 0639846

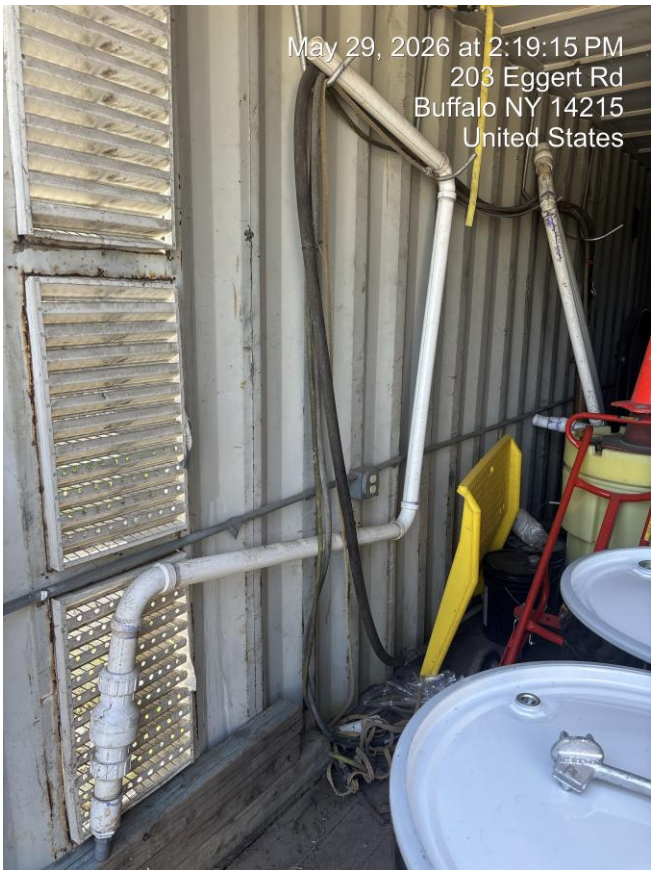


PHOTO 18

Conveyance piping/tubing from decommissioned system and electrical conduit within Northen Conex (photo facing SW).

APPENDIX C WELL CONSTRUCTION LOGS

Project: LEICA

Project No: 3947

Date: 7/12/99

Client: Leica Microsystems Inc.

Location: 203 Eggert Road, Cheektowaga, NY

Well #: MW-11A

Geologist: Joe Glista

SUBSURFACE PROFILE				
Depth	Description	Remarks	Well Construction Data	Remarks
0	Ground Surface			
1	Fill			
5	Red Clay			Sand Pack to 10.5' BG
10				Grouted Casing to 15' BG
13	Limestone Bedrock			
15				

Maxim Technologies Drill Rig Operator: Phil Bence

Drilling Method: Rotary Cone

Drilling Date: 7/12/99

Well Diameter: 8"

Project: LEICA

Project No: 3947

Date: 7/12/99

Client: Leica Microsystems Inc.

Location: 203 Eggert Road, Cheektowaga, NY

Well #: MW-11A

Geologist: Joe Glista

SUBSURFACE PROFILE				
Depth	Description	Remarks	Well Construction Data	Remarks
16				Well Screen to 16.2' BG
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Maxim Technologies Drill Rig Operator: Phil Bence

Well Diameter: 8"

Drilling Method: Rotary Cone

Drilling Date: 7/12/99

Project: LEICA

Project No: 3947

Date: 7/12/99

Client: Leica Microsystems Inc.

Location: 203 Eggert Road, Cheektowaga, NY

Well #: MW-11A

Geologist: Joe Glista

SUBSURFACE PROFILE

Depth	Description	Remarks	Well Construction Data	Remarks
31				
32				
33				
34				
35				Void and Fractures
36				Depth of Well 36.2' BG
37	End of Boring			
38				
39				
40	End of Borehole			
41				
42				
43				
44				
45				

Maxim Technologies Drill Rig Operator: Phil Bence

Well Diameter: 8"

Drilling Method: Rotary Cone

Drilling Date: 7/12/99

Sheet: 3 of 3

ERM

WELL : MW-40

6311 Fly Road, East Syracuse, NY 13057 (315) 445-2554

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Source
Cheektowaga	0487535	Date	Time	Level (feet)	Surveyor
Drilling Company	*Foreman*				*Ground Elevation*
Parratt-Wolff	Devon, Jared				656.56
Surveyor	*Date Surveyed*				*Top of Protective Steel Cap Elevation*
NYLD	2/8/2021				
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
1/25/2021 13:00	O.Botting; J.Reynolds				659.57

CONSTRUCTION DETAILS

Generalized Soil Description	*Elevation	**Depth	
	0.0	3.5	PROTECTIVE STEEL CAP WITH LOCK
	659.6	3.0	<-- EXPANSION CAP
	656.6	0.0	GROUND SURFACE
			< - PROTECTIVE STEEL CASING CEMENTED IN PLACE
	656.6	0.0	<-- BENTONITE-CEMENT GROUT
	656.6	0.0	<-- BENTONITE SEAL
	654.6	2.0	<---- RISER
	653.6	3.0	DIAMETER: 2
			MATERIAL: PVC
			<---- WELL SCREEN
			SLOT SIZE: 10
			DIAMETER: 2
			MATERIAL: PVC
			<---- SAND PACK
			TYPE: #0
	649.6	7.0	<---- BOTTOM CAP
	663.6	7.0	BOTTOM OF BOREHOLE

Remarks:

Hand augered to bedrock at 7.0 ft bgs. Screen 3-4 ft bgs; sand 2-7 ft bgs, bentonite 0-2 ft bgs.

* Elevation (feet) above mean sea level unless noted

** Depth in feet below grade

ERM

WELL : MW-42

6311 Fly Road, East Syracuse, NY 13057 (315) 445-2554

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Source
Cheektowaga	0487535	Date	Time	Level (feet)	Surveyor
Drilling Company	*Foreman*				*Ground Elevation*
Parratt-Wolff	Devon, Jared				659.10
Surveyor	*Date Surveyed*				*Top of Protective Steel Cap Elevation*
NYLD	2/8/2021				
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
1/27/2021 9:23	O.Botting; J.Reynolds				662.20

CONSTRUCTION DETAILS

Generalized Soil Description	*Elevation	**Depth	
	0.0	3.5	PROTECTIVE STEEL CAP WITH LOCK
	662.2	3.1	<-- EXPANSION CAP
	659.1	0.0	GROUND SURFACE
			< - PROTECTIVE STEEL CASING CEMENTED IN PLACE
	659.1	0.0	
			<-- BENTONITE-CEMENT GROUT
	659.1	0.0	
			<-- BENTONITE SEAL
	657.1	2.0	
			<---- RISER
	656.1	3.0	DIAMETER: 2
			MATERIAL: PVC
			<---- WELL SCREEN
			SLOT SIZE: 10
			DIAMETER: 2
			MATERIAL: PVC
			<---- SAND PACK
			TYPE: #0
	651.1	8.0	<---- BOTTOM CAP
	667.1	8.0	BOTTOM OF BOREHOLE

Remarks:

Hand augered to 4.0 ft bgs and direct push to refusal at 8.0 ft bgs. Screen 3-8 ft bgs; sand 2-8 ft bgs, bentonite 0-2 ft bgs.

* Elevation (feet) above mean sea level unless noted

** Depth in feet below grade

ERM

WELL : MW-43

6311 Fly Road, East Syracuse, NY 13057 (315) 445-2554

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Source
Cheektowaga	0487535				Surveyor
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
Parratt-Wolff	Devon, Jared				662.16
Surveyor	*Date Surveyed*				*Top of Protective Steel Cap Elevation*
NYLD	2/8/2021				
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
1/27/2021 12:00	O.Botting; J.Reynolds				665.28

Generalized Soil Description	*Elevation	**Depth	CONSTRUCTION DETAILS
	0.0	3.5	PROTECTIVE STEEL CAP WITH LOCK
	665.3	3.1	<-- EXPANSION CAP
	662.2	0.0	*GROUND SURFACE*
	662.2	0.0	<- PROTECTIVE STEEL CASING CEMENTED IN PLACE
	662.2	0.0	<-- BENTONITE-CEMENT GROUT
	659.7	2.5	<-- BENTONITE SEAL
	657.7	4.5	<-- RISER DIAMETER: 2 MATERIAL: PVC
	652.7	9.5	<-- WELL SCREEN SLOT SIZE: 10 DIAMETER: 2 MATERIAL: PVC <-- SAND PACK TYPE: #0 <-- BOTTOM CAP
	671.8	9.6	BOTTOM OF BOREHOLE

Remarks:

Hand augered to 5.0 ft bgs and direct push to refusal at 9.6 ft bgs. Screen 4.5-9.5 ft bgs; sand 2.5-9.5 ft bgs, bentonite 0-2.5 ft bgs.

* Elevation (feet) above mean sea level unless noted

** Depth in feet below grade

ERM

WELL : MW-45

6311 Fly Road, East Syracuse, NY 13057 (315) 445-2554

MONITORING WELL CONSTRUCTION

Project Name & Location	Project No.	Water Level(s) (ft below top of PVC casing)			Site Elevation Source
Cheektowaga	0487535				Surveyor
Drilling Company	*Foreman*	Date	Time	Level (feet)	*Ground Elevation*
Parratt-Wolff	Devon, Jared				664.92
Surveyor	*Date Surveyed*				*Top of Protective Steel Cap Elevation*
NYLD	2/8/2021				
Date and Time of Completion	*Geologist*				*Top of Riser Pipe Elevation*
1/27/2021 15:14	O.Botting; J.Reynolds				667.97

CONSTRUCTION DETAILS

Generalized Soil Description	*Elevation	**Depth	
	0.0	3.5	PROTECTIVE STEEL CAP WITH LOCK
	668.0	3.1	<-- EXPANSION CAP
	664.9	0.0	*GROUND SURFACE*
	664.9	0.0	< - PROTECTIVE STEEL CASING CEMENTED IN PLACE
	664.9	0.0	<-- BENTONITE-CEMENT GROUT
	662.9	2.0	<-- BENTONITE SEAL
	661.9	3.0	<-- RISER DIAMETER: 2 MATERIAL: PVC
	656.9	8.0	<-- WELL SCREEN SLOT SIZE: 10 DIAMETER: 2 MATERIAL: PVC
	672.9	8.0	<-- SAND PACK TYPE: #0 <-- BOTTOM CAP BOTTOM OF BOREHOLE

Remarks:

Hand augered to 5.0 ft bgs and direct push to 8.0 ft bgs. Screen 3.0-8.0 ft bgs; sand 2.0-8.0 ft bgs, bentonite 0-2.0 ft bgs.

* Elevation (feet) above mean sea level unless noted

** Depth in feet below grade