PERIODIC REVIEW REPORT
APRIL 2020 – APRIL 2023

LUZERNE ROAD SITE
TOWN OF QUEENSBURY, NY 12801

NYSDEC Site No. 557010
Work Assignment No. D009812-25

Prepared for:

NEW YORK STATE

Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Prepared by:

TRC Engineers, Inc.
3 Corporate Drive, Suite 202
Clifton Park, New York 12065

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TRC Project No. 470744

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LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
COCs	Contaminants of Concern
COVID-19	2019 Novel Coronavirus
DER	Department of Environmental Remediation
ECs	Engineering Controls
E&E	Ecology and Environment Engineering, P.C.
EN	Environmental Notice
EPA	Environmental Protection Agency
ESD	Explanation of Significant Differences
FS	Feasibility Study
ICs	Institutional Controls
IDW	Investigative Derived Waste
IHWDS	Inactive Hazardous Waste Disposal Site
IRM	Interim Remedial Measure
mg/kg	Milligrams Per Kilogram
MPI	Malcolm Pirnie, Inc.
N/A	Not Available
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYS	New York State
OU	Operable Unit
PCBs	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
ppm	Parts Per Million
PRR	Periodic Review Report
PVC	Polyvinyl Chloride
RA	Remedial Action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SCGs	Standards, Criteria, and Guidance
SMP	Site Management Plan
SVOCs	Semi-volatile Organic Compounds
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TSCA	Toxic Substances Control Act
TRC	TRC Engineers, Inc.
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
WA	Work Authorization

Executive Summary

Category	Summary/Results
Engineering Controls	• Cover system with demarcation fabric • Groundwater monitoring wells
Institutional Controls	The following Institutional Controls (ICs) are defined in the Site Management Plan (SMP) dated April 2021: • All Engineering Controls (ECs) must be operated and maintained as specified in the SMP; • All ECs must be inspected at a frequency and in a manner defined in the SMP; • The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Warren County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the New York State Department of Environmental Conservation (NYSDEC); • Groundwater and other environmental or public health monitoring must be performed as defined in the SMP; • Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP; • All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP; • Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; • Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP; • Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Notice; • Vegetable gardens and farming on the Site are prohibited; and • An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.
Site Classification	Class C Inactive Hazardous Waste Disposal Site (IHWDS)
Site Management Plan	• SMP, Rev No. 0 – May 2010 ○ Rev No. 1 – March 2015 ○ Rev No. 2 – June 2018 ○ Rev No. 3 – April 2021
Certification/Reporting Period	The April 2021 SMP requires a Periodic Review Report (PRR) be submitted every three years. The previous PRR, prepared by TRC Engineers, Inc. (TRC), was completed for the period between November 2012 to April 2020.
Inspection	**Frequency**
1. Site-Wide Inspection 2. Groundwater Monitoring Wells	Semi-annually and following severe weather

Category	Summary/Results
Monitoring	**Frequency**
1. Water Level Monitoring of Monitoring Well Network 2. Groundwater Monitoring for Site Contaminants of Concern (COCs)	Every five years
Maintenance	**Frequency**
Final cover maintenance	Semi-annually, as needed
Vegetation cover	Periodic mowing of the vegetative cover to reduce the potential for deep rooting plants.
Reporting	**Frequency**
Site Inspection Report	Following each inspection event
Periodic Review Report	Every three years
Prior PRR Recommendations	The 2020 PRR had the following recommendations: • Conduct semi-annual inspections to verify ICs and ECs are in-place and effective. One Site inspection report should be completed following the inspection event. • Revise the PRR frequency to one report every three years, with the next reporting period starting May 1st, 2020 and ending April 31st, 2023. • Water level measurements should continue to be collected from the 40 Site monitoring wells during inspection and groundwater monitoring events. • Periodic mowing of the vegetative cover to reduce potential for deep rooting plants. • The locations and elevations of the newly installed monitoring wells (MW-10SR, MW-11SR and MW-101-2R) should be surveyed by a New York State licensed land surveyor. • The elevations of the ground surface, top of riser and top of well casing should also be surveyed for the monitoring wells with missing ground surface elevations in the Construction Well Summary Table included in this PRR as **Table 1**. • Per- and polyfluoroalkyl substances (PFAS) should be included as an analyte for all monitoring wells for at least one future round of groundwater sampling to evaluate PFAS impacts to groundwater at the Site. • The SMP should be revised to reflect the above changes/modifications if the changes are acceptable to the NYSDEC.

Category	Summary/Results
Site Management Activities	Site inspections were conducted in accordance with the SMP during this reporting period (April 2020 – April 2023), with the exception of missed inspections in 2020 due to New York State Executive Order 202.6 and as directed by the NYSDEC in response to the 2019 Novel Coronavirus (COVID-19) pandemic and missed inspections in 2021 due to an oversight: • 1/7/2020: TRC observed the installation of replacement monitoring wells MW-10SR, MW-11SR, and MW-101-2R. • 4/1/2021: TRC completed waste characterization sampling from soil cuttings produced during the monitoring well installation that occurred on January 7th, 2020. Three composite samples were collected and submitted for analysis of Toxicity Characteristic Leaching Procedure (TCLP) Volatiles by United States Environmental Protection Agency (USEPA) Method 8260C, semi-volatile organic compounds (SVOCs) by USEPA Method 8270, metals plus mercury by USEPA Methods 6010C and 7470A, per- and polyfluoroalkyl substances (PFAS) by USEPA Method 537 Modified, Target Compound List (TCL) pesticides and herbicides by UESPA Methods 8081B and 8151A, TCL polychlorinated biphenyls (PCBs) by USEPA Method 8082, diesel and gasoline range organics by USEPA Method 8015D, cyanide by USEPA Method 9012B, pH by USEPA Method 9045D, and ignitability by USEPA Method 1010A. • 11/3/2021: TRC conducted a severe weather inspection to note general Site conditions and the condition of the cap and monitoring wells. • 7/27/2021: TRC was on-Site to provide oversight for the investigate derived waste (IDW) drum pick-up. Miller Environmental Group removed six drums of drill cuttings from the monitoring well installation that occurred on January 7th, 2020. • 5/24/2022: TRC conducted a semi-annual Site-wide inspection to document general Site conditions and the condition of the cap and monitoring wells. • 11/15/2022: TRC conducted a semi-annual Site-wide inspection to document general Site conditions and the condition of the cap and monitoring wells.
Significant Findings or Concerns	1. Due to New York State Executive Order 202.6 and as directed by the NYSDEC in response to the COVID-19 pandemic, semi-annual Site inspections were not performed in 2020. 2. In 2022, MW-101-3 was unable to be located due to dense vegetation and unsafe access from Interstate 87. 3. A shelter consisting of a tarp and general trash were observed north of the Site during the May 2022 Site inspection. The shelter appeared abandoned during the November 2022 inspection. 4. Based on a review of historical concentrations of PCBs in groundwater (**Table 2**), PCBs have not been detected in monitoring well MW-5I since before 2000 and monitoring wells MW-6I, MW-7D, MW-8I, MW-12D, and MW-14I since before 2009.

Category	Summary/Results
Recommendations	1. The locations and elevations of the newly installed monitoring wells (MW-10SR, MW-11SR and MW-101-2R) should be surveyed by a New York State licensed land surveyor so that accurate groundwater elevations can be determined. 2. The elevations of the ground surface, top of riser and top of well casing should also be surveyed for the monitoring wells with missing ground surface elevations in the Monitoring Well Construction Summary Table included in this PRR as **Table 1**. 3. Remove dense vegetation around MW-101-3 for access to inspect the monitoring well safely. 4. PFAS should be included as an analyte for all monitoring wells for at least one future round of groundwater sampling events to evaluate PFAS impacts on groundwater at the Site. 5. The SMP should be revised to include the following: a. Change the reporting period to every five years; b. Change the monitoring frequency to every three years; c. Change the Site-wide inspection frequency to every 15 months; and d. Decommission monitoring wells MW-5I, MW-6I, MW-7D, MW-8I, MW-12D, and MW-14I.
Cost Summary	TRC's cost for Site management activities this reporting period (April 2020 through April 2023) was approximately $55,620.00. This cost includes labor and expenses incurred by TRC. It should be noted this cost does not include any costs incurred directly by the NYSDEC.

1.0 Introduction

This PRR has been prepared for the Luzerne Road Site (referred to as "the Site") and covers the period from April 1, 2020 through April 30, 2023. This PRR was prepared in accordance with the NYSDEC Work Authorization (WA) No. D007620-45 Notice to Proceed dated October 11, 2018, the NYSDEC-approved Scope of Work dated February 19, 2019, NYSDEC WA No. D009812-25 Notice to Proceed dated November 19, 2021, the NYSDEC-approved Scope of Work dated April 1, 2022, and NYSDEC Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation. A Site summary and applicable remedial program information are presented below.

Site Information			
Site Name:	Luzerne Road Site	**NYSDEC Site No:**	557010
Site Location:	Luzerne Road, Queensbury, Warren County, NY	**Remedial Program:**	State Superfund Program
Site Type:	Dump Landfill	**Classification:**	Class C IHWDS
Parcel Identification(s):	309.10-1-90 and 309.10-1-91, Warren County Tax Maps	**Parcel Acreage / EE Acreage:**	9.2
Selected Remedy:	Excavation, Soil Treatment, Demarcation Fabric, Cover System, Long-term Groundwater Monitoring	**Site COC(s):**	PCBs
Current Remedial Program Phase:	Post Remedial Action (RA) Site Monitoring, Site Management	**Institutional Controls:**	• Record of Decision (ROD) (2005) • 51 Luzerne Road EN (2012) • 53 Luzerne Road EN (2017) • SMP (Rev. 3 2021)
Post-Remediation Monitoring and Sampling Frequency:	Groundwater monitoring – Every five years Site inspection – Semi-annually	**Engineering Controls:**	Cover system and groundwater monitoring wells
Monitoring Locations:	Overburden monitoring wells (40)	**Required Reporting:**	PRR – Every three years

1.1 Site Location, Ownership, and Description

The Site is in the Town of Queensbury, Warren County, New York and is approximately 9.2 acres in size. It consists of two adjoining land parcels, 51 Luzerne Road (Tax Map Lot No. 309.10-1-91) and 53 Luzerne Road (Tax Map Lot No. 309.10-1-90). The eight-acre parcel at 51 Luzerne Road is owned by the State of New York, while the remaining 1.2 acres are owned privately. The Site is located approximately 1,000 feet east of Interstate 87 and 3,500 feet north of the Hudson River. The Site is bounded to the north and west by

the Glens Falls landfill (Site No. 557003, a Class 2 site on the New York IHWDS list), located hydraulically upgradient of the Site. The Glens Falls landfill site reportedly received primarily municipal waste as well as an unknown quantity of PCB-containing capacitors and approximately five tons of ink sludge. A commercial building is located immediately southwest of the Site with Luzerne Road to the south and vacant land to the east. Site Location and Site Layout Maps are provided on **Figure 1** and **Figure 2**, respectively.

1.2 Investigation/Remedial History

The Luzerne Road Site operated from the 1950s to the 1970s as a salvage yard for automotive and industrial equipment. Salvaging operations performed on off-specification capacitors for the removal of copper and other metals resulted in fluids and oils containing PCBs to be released onto the ground surface. These operations resulted in surface and subsurface contamination at the Site. Small-scale, off-Site salvage operations were also conducted during the 1960s and 1970s causing PCB-laden oils to spill onto the ground.

From 1970 to 1980, the NYSDEC, acting to reduce potential PCB exposure pathways, conducted soil removals from several neighboring residences where these off-Site salvage operations were conducted. In 1979, NYSDEC implemented an Interim Remedial Measure (IRM) to temporarily contain PCB-contaminated wastes that had been disposed of at the Site. The IRM included the construction of a clay-lined containment cell on-Site to hold highly contaminated materials until a suitable remedial technology could be applied. Impacted soils from adjacent properties, including three private residences and the 53/55 Luzerne Road properties, were mostly removed and deposited inside the containment cell until the cell reached capacity. According to historical documentation available to TRC, the limits of excavation were driven by visual and olfactory observations of PCB impacts. The remaining contaminated off-Site soil was left in place at the northern ends of 53/55 Luzerne Road. Leachate from the containment cell was monitored and periodically removed from 1979 to 1987. In 1987, the NYSDEC listed the Luzerne Road Site as a Class 2 IHWDS.

From 1987 to 2005, numerous investigations were conducted on-Site and off-Site by the NYSDEC, including several remedial investigations to establish the nature and extent of the contamination and to evaluate remedial options and alternatives. The Site was divided into three operable units (OUs): the previously constructed PCB containment cell (OU-1); on-Site groundwater, along with on-Site and off-Site soils (OU-2); and off-Site groundwater located in residential areas (OU-3). Remedial Investigation (RI) activities were completed from May 1999 to March 2001 in accordance with the NYSDEC approved 1999 Remedial Investigation/Feasibility Study (RI/FS) Work Plan prepared by Ecology and Environment Engineering, P.C. (E&E). Regarding possible PCB residuals on the private properties remediated in 1979, a questionnaire was distributed to over 50 homes in the summer of 1999 to develop a soil sampling strategy. Three rounds of soil sampling were completed from September 1999 to May 2000. Excavation of soils with PCBs greater than one part per million (ppm) began in September 2000 and restoration was completed by April 2001. A RI Report was prepared by E&E in August 2002 to present findings of the OU-1 and OU-2 investigation activities.

The RI report concluded that surface soils in the southern area of the Site contained elevated PCB concentrations and that PCBs remain in subsurface soils in the western and southern parts of the Site. Groundwater analysis detected low PCB concentrations in the shallow and intermediate zones underlying the Site. The PCB containment cell, the upgradient Glens Falls landfill, and on-Site subsurface soils were

identified in the RI report as potential sources of groundwater contamination. The RI report addressing OU-3, off-Site groundwater impacts, was not available for review by TRC.

In June 2003, the NYSDEC Bureau of Construction Services prepared a Post Remediation Report for the September 2000 IRM consisting of PCB contamination soil excavation, removal, and disposal from private properties.

In May 2004, E&E prepared a Feasibility Study (FS) Report to address contamination within OU-1, OU-2, and OU-3. In December 2004, a Proposed Remedial Action Plan (PRAP) for OU-2 and OU-3 was prepared by NYSDEC based on the FS report.

In March 2005, a ROD for OU-2 and OU-3 was issued and required the excavation of soils from the containment cell and excavation of the on-Site contaminated surface soil to one ppm of PCBs in the top one foot and to 10 ppm of PCBs and greater in the subsurface soils. A demarcation layer was to be installed over soils residually contaminated above one ppm. Additionally, excavated materials were to be treated on-Site via thermal desorption. Site restoration consisted of placement of the treated soil, placement of topsoil, and seeding of excavated or filled areas. The ROD also required the development of a Site management plan to address residual contaminated soils, implementation of institutional controls to prevent use of Site groundwater, long term monitoring of groundwater to evaluate the effectiveness of source removal, and annual certifications from the property owner that the institutional and engineering controls are still in place.

In February 2008, an Explanation of Significant Differences (ESD) was prepared by NYSDEC to document an alternative option to the selected remedy consisting of on-Site thermal treatment of soil contaminated with PCBs. The alternative option was developed due to a lack of responsive and cost-effective bids. The alternative proposed the excavation of PCB-impacted soil greater than 50 ppm to be disposed off-Site in a secure landfill and soils with PCB contamination equal to or less than 50 ppm to be treated on-Site using low temperature thermal desorption technology.

Excavation of soil, performed in accordance with the 2005 ROD and the 2008 ESD, began in July 2008 and was completed in July 2009. In total, 45,032 cubic yards of Toxic Substances Control Act (TSCA) material and 49,479 cubic yards of non-TSCA material was excavated. From July 2008 to January 2009, the non-TSCA soil was treated using thermal desorption to remove PCB contamination to below 1 milligram per kilogram (mg/kg). Beginning in June 2009, TSCA materials were shipped from the Site for off-Site disposal. In January 2010, a Remedial Construction Report was prepared by Malcolm Pirnie, Inc. (MPI) to document the construction activities as part of the OU-2 remedial design.

In May 2010, a SMP was prepared by MPI for the management of Site soil and groundwater and long-term Site monitoring and reporting. In June 2012, an EN was filed on the main parcel of the Site (51 Luzerne Road, Tax Map Lot No. 309.10-1-91). In November 2012, a PRR was prepared by D&B Engineers and Architects, P.C. for the reporting period January 2011 to December 2011. In 2015, the SMP was updated to include the Site inspection, sampling, the 2012 EN, and reporting recommendations from the 2012 PRR. The updated SMP changed the Site inspection frequency from quarterly to semi-annually and the groundwater sampling and gauging frequency from semi-annually to annually. The reporting requirements were additionally revised from semi-annual to periodic with the frequency to be decided at the discretion of NYSDEC.

In 2017, a second EN was issued to include the adjacent parcel (53 Luzerne Road, Tax Map Lot No. 309.10-1-90). This EN subjected the parcel to the same limitations and provisions required in the SMP and the

2007 EN for the main parcel. In 2018, the SMP was revised to include the 2017 EN, suspend routine sampling indefinitely (but include a 5-year sampling period provision to be executed at the discretion of NYSDEC), and include a one-year reporting period to certify ECs and ICs.

In July 2020, TRC prepared a PRR for the reporting period November 2012 to April 2020. The PRR recommended a three-year Certification Period, periodic mowing of the Site's vegetative cover, surveying of newly installed replacement monitoring wells, and additional sampling for emerging contaminants in groundwater. The SMP was again revised in 2021 to update formatting and to include a discussion of off-Site soil contamination.

A detailed Site History, including the dates and descriptions of significant events, and a Custodial Record detailing known and available Site reports, are included in **Appendix A**.

1.3 Remaining Contamination

PCB-contaminated soil and groundwater remains at the Site. Soils above the demarcation layer achieved PCB concentrations of less than 1 mg/kg. Soils below the demarcation layer (a non-woven geotextile) generally have PCB concentrations less than 10 mg/kg, and in some cases less than 1 mg/kg, but there are some areas that have concentrations greater than 10 mg/kg. A general description and figures showing the location of these areas is provided in the SMP. More detailed figures, showing surveyed post-excavation confirmation sample locations and concentrations are presented in the January 2010 Final Engineering Report prepared by MPI.

1.4 Regulatory Requirements/Cleanup Goals

As specified in the ROD, the cleanup goals for the Site are to eliminate or reduce to the extent practicable:

- Exposures of persons at or around the Site to PCBs in the surface and subsurface soils;
- Exposures of flora or fauna to PCBs in the surface and subsurface soils;
- The release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards; and
- Reduce further off-Site migration of contaminated groundwater to the extent practical.

Further, the cleanup goals for the Site include attaining to the extent practicable the following standards, criteria, and guidance (SCGs):

- Ambient groundwater quality standards based on NYSDEC "Ambient Water Quality Standards and Guidance Values" and Part 5 of the New York State Sanitary Code; and
- Soil cleanup goals based on the NYSDEC "Technical and Administrative Guidance Memorandum 4046; Determination of Soil Cleanup Objectives and Cleanup Levels", which are 1 ppm of total PCBs at the surface (down to 1 foot below grade) and 10 ppm of total PCBs in the subsurface (1 foot and below).

2.0 Institutional and Engineering Control Plan Compliance

2.1 Institutional Controls

The Luzerne Road Site is managed under the New York State Superfund Program. The Site's inclusion on Registry of Inactive Hazardous Waste Disposal Sites and the ROD, ENs, and SMP act as the Institutional Controls.

Adherence to the ICs included in the ROD is required by the ENs and are implemented under the SMP. ICs identified in the ENs may not be discontinued without an amendment to or extinguishment of the ENs. These ICs are:

- The property may be used for Commercial or Industrial uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Warren Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the EN;
- Vegetable gardens and farming on the Site are prohibited; and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

2.2 Engineering Controls

The ECs for the Site include a cover system and monitoring wells for periodic groundwater monitoring.

3.0 Monitoring and Sampling Plan Compliance

The SMP was prepared to manage the Site's remaining contamination and to ensure the remedy remains effective. The table below shows the SMP-specified monitoring and sampling activities for the Site and the dates those activities were completed:

Summary of SMP Site Monitoring and Sampling Plan				
Site Management Activity	**Frequency**	**Location**	**Laboratory Analysis**	**Completion Date(s)**
Site Inspection (including following severe weather) & Site Inspection Report	Semi-annually	Site properties	Not Applicable	11/3/2021, 5/24/2022, and 11/15/2022
Monitoring Well Replacement	As needed	MW-10SR, MW-11SR, and MW-1012R	Not Applicable	1/7/2020 (with IDW pick-up on 7/27/2021)
Groundwater Sampling	Every five years	• MW-2S • MW-2I • MW-2D • MW-4S • MW-4I • MW-4D • MW-5S • MW-5I • MW-5D • MW-6S • MW-6I • MW-6D • MW-7S • MW-7I • MW-7D • MW-8S • MW-8I • MW-9S • MW-10SR • MW-11SR • MW-12S • MW-12I • MW-12D • MW-13S • MW-13I • MW-13D • MW-14S • MW-14I • MW-14D • MW-15S • MW-16S • MW-101-1 • MW-101-2R • MW-101-3 • MW-101-4 • MW-101-5 • MW-101-6S • MW-101-6I • MW-101-7S • MW-101-7I	PCBs by USEPA Method 8082A	Not performed during the reporting period.
PRR	Every three years	Not Applicable	Not Applicable	June 2023

3.1 Site Activities and Inspections

Due to the NYS Executive Order 202.6 and as directed by the NYSDEC in response to the COVID-19 pandemic, semi-annual Site inspections were not performed in 2020. Semi-annual inspections were also not performed in 2021 due to an oversight.

On January 7, 2020, TRC mobilized to the Site to perform oversight during the installation of replacement monitoring wells MW-10SR, MW-11SR, and MW-101-2R. On April 1, 2021, TRC mobilized to the Site

to conduct sampling for waste characterization of six drums filled with soil cuttings during the monitoring well installation that occurred on January 7, 2020. Based on waste characterization analytical results, the soil cuttings were characterized as TSCA regulated waste and on July 27, 2021, the drums were properly manifested by TRC and were removed by Miller Environmental Group for off-Site disposal. On November 3, 2021, TRC conducted a severe weather inspection to note general Site conditions and the condition of the cap and monitoring wells. Semi-annual inspections were conducted on May 24, 2022 and November 15, 2022. These inspections included evaluation of current Site use, condition of soil cover, vegetation condition, and condition of the monitoring wells.

A summary of the Site visits are as follows:

Summary of Site Activities and Inspections
April 2020 through April 2023

Site Management Activity	Summary of Results	Maintenance/Corrective Measure
Site Inspection	A severe weather inspection was performed on November 3, 2021. No signs of damage or significant disturbance were identified during the inspection. Semi-annual Site inspections were performed on May 24, 2022 and November 15, 2022. Overall, the Site was in good condition. A shelter consisting of a tarp and general trash were observed north of the Site during the May 2022 Site inspection. The shelter appeared abandoned during the November 2022 inspection.	No routine maintenance or corrective measures needed at this time.
Monitoring Well Network	Monitoring wells were inspected during the annual Site inspections and overall, were observed in good condition. During the May 2022 Site inspection, MW-101-3 could not be inspected due to dense vegetation and unsafe access from Interstate 87.	Dense vegetation around MW-101-3 should be removed for access to the monitoring well.
Monitoring Well Gauging	Wells have not been gauged since January 2020.	No routine maintenance or corrective measures needed at this time.
Groundwater Sampling	Groundwater sampling has not been performed since June 2019.	No routine maintenance or corrective measures at this time.

Site inspection forms including photographic logs from the inspection activities are presented in **Appendix C.**

3.2 Groundwater Monitoring Summary

3.2.1 Monitoring Well Gauging

Monitoring well gauging was not performed during the reporting period.

3.2.2 Groundwater Sampling

Groundwater sampling was not performed during the reporting period.

4.0 Cost Summary

The total estimated cost of the Site management activities from April 2020 to April 2023 is approximately $55,620. Site management activities included project management/administration and waste characterization sampling, a severe weather inspection, and semi-annual Site inspections. The total includes labor costs, as well as expenses associated with the project. It should be noted that the total does not include laboratory costs or other costs incurred directly by NYSDEC in support of the project. A summary of the Site management costs is presented below:

Summary of Site Management Costs
April 2020 through April 2023

Cost Item	Amount Expended	Percent of Total Cost (Approximate)
Engineering Support		
TRC	$53,200	96%
Expenses		
TRC	$2,420	4%
Total Cost	**$55,620**	100%

The following provides a review of each cost item:

- Labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.), Site inspections, monitoring well installation, IDW sampling, and reporting (i.e., Site Inspection Report and PRR).
- Expense costs include travel, equipment, and supplies in support of the Site inspections, monitoring well installation, IDW sampling, and routine Site maintenance activities.

5.0 Conclusions and Recommendations

5.1 Conclusions

- Site and groundwater use were consistent with the restrictions set forth in the ROD and SMP. The ICs operated as intended during this reporting period.
- Based on Site inspections performed during the reporting period, the ECs continue to operate as intended.
- Due to the NYS Executive Order 202.6 and as directed by the NYSDEC in response to the COVID-19 pandemic, semi-annual Site inspections were not performed in 2020. Semi-annual inspections were also not performed in 2021 due to an oversight.
- The remedy continued to be protective of human health and the environment during this reporting period.

5.2 Recommendations

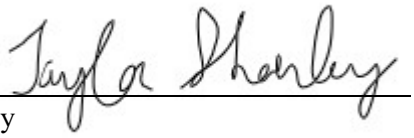
- The locations and elevations of the newly installed monitoring wells (MW-10SR, MW-11SR and MW-101-2R) should be surveyed by a New York State licensed land surveyor so that accurate groundwater elevations can be determined.
- The elevations of the ground surface, top of riser and top of well casing should also be surveyed for the monitoring wells with missing ground surface elevations in the Monitoring Well Construction Summary Table included in this PRR as **Table 1.**
- Remove dense vegetation around MW-101-3 for access to inspect the monitoring well safely.
- PFAS should be included as an analyte for all monitoring wells for at least one future round of groundwater sampling events to evaluate PFAS impacts on groundwater at the Site.
- The SMP should be revised to include the following:
    - Change the reporting period to every five years;
    - Change the monitoring frequency to every three years;
    - Change the Site-wide inspection frequency to every 15 months; and
    - Decommission monitoring wells MW-5I, MW-6I, MW-7D, MW-8I, MW-12D, and MW-14I.

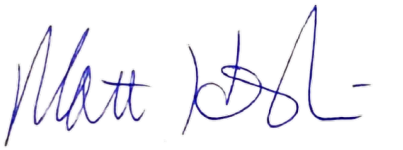
6.0 Certification of Engineering and Institutional Controls

For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The institutional and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER;
- Nothing has occurred that would impair the ability of such control to protect public health and the environment; and,
- Nothing has occurred, with the exception of missed inspections in 2020 due to the COVID-19 pandemic and missed inspections in 2021 due to an oversight, that would constitute a violation or failure to comply with any Site Management Plan for this control.

TRC Engineers, Inc.

Prepared By: 
Taylor Shanley
Staff Engineer

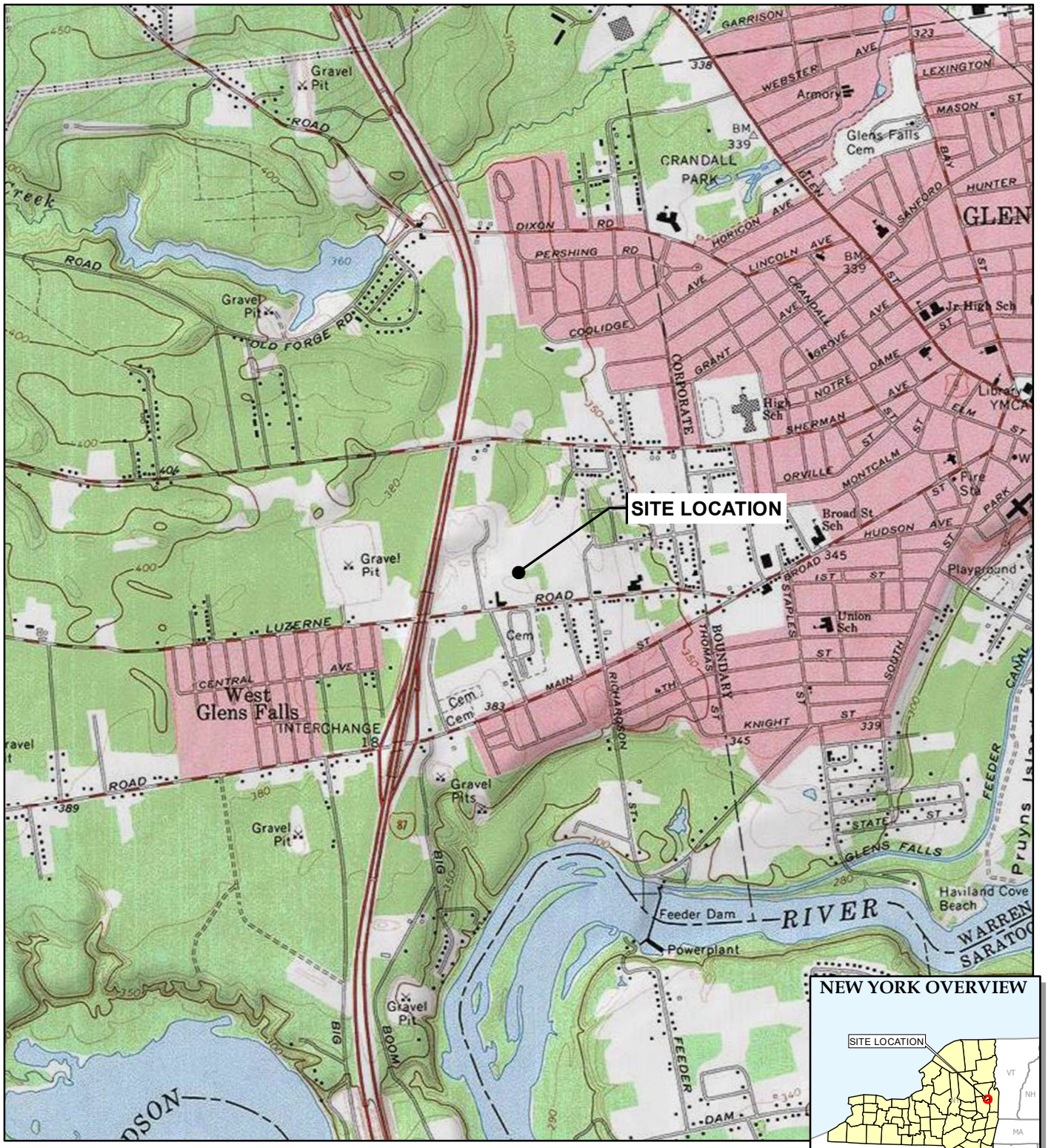
Reviewed By: 
Matthew H. Hoskins, P.G.
Senior Project Manager

7.0 Future Site Activities

Based on the recommendations in **Section 5.0,** the following Site management activities will be completed during the next PRR reporting period (May 2023 to May 2026):

- Site Inspection – Semi-annually (next scheduled Q4 2023);
- Groundwater Gauging and Sampling – Every three years (next scheduled Q2 2024);
- Repair and Corrective Actions – As needed; and
- PRR – Every five years (next scheduled May 2028).

FIGURES



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES. GLENS FALLS QUAD (1968)

1 " = 2,000 '
1:24,000

0 1,000 2,000 FEET

NEW YORK OVERVIEW

TRC
3 Corporate Drive, Suite 202
Clifton Park, NY 12065
Phone: 518.348.1190
www.trccompanies.com

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
LUZERNE ROAD SITE - SITE NO. 557010
51-53 LUZERNE ROAD
QUEENSBURY, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	M. OPEL
CHECKED BY:	T. SHANLEY
APPROVED BY:	M. HOSKINS
DATE:	MAY 2023
PROJ. NO.:	470744 TASK 11
FILE:	Fig01_SiteLoc.mxd

FIGURE 1

T:\1-PROJECTS\NYSDEC\S_DRIVE_MXDs\320919_LuzerneRoad\Fig01_SiteLoc.mxd -- Saved By: LLILL on 5/15/2023, 10:44:55 AM

BASE MAP FROM ESRI, 2018

Note: All locations and boundaries are approximate

1 " = 260 '
1:3,120
0 130 260
FEET

- Tax Parcel Boundary
- Shallow Overburden Monitoring Well Location
- Intermediate Overburden Monitoring Well Location
- Deep Overburden Monitoring Well Location

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PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
LUZERNE ROAD SITE - SITE NO. 557010
51-53 LUZERNE ROAD
QUEENSBURY, NEW YORK

TITLE:

SITE LAYOUT MAP

DRAWN BY:	M. OPEL
CHECKED BY:	T. SHANLEY
APPROVED BY:	M. HOSKINS
DATE:	JUNE 2023
PROJ. NO.:	470744 TASK 11
FILE:	Fig02_SiteLayout.mxd

FIGURE 2

T:\1-PROJECTS\NYSDEC\S_DRIVE_MXDs\320919_LuzerneRoad\Fig02_SiteLayout.mxd -- Saved By: LLILL on 6/13/2023, 10:19:19 AM

TABLES

Table 1
New York State Department of Environmental Conservation
Luzerne Road Site (Site No. 557010) - Town of Queensbury, New York
Monitoring Well Construction Summary

Monitoring Well	Installation Date	Well Diameter (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	Screen			Elevation (feet AMSL)				Location (STD UTM)	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	Casing Top	Ground Surface	Screen Top	Screen Bottom	Northing	Easting
MW-2S	6/1/2009	2	PVC	23.5	Overburden	13.5	23.5	10	379.07	378.15	364.65	354.65	4795508	607522
MW-2I	6/9/2009	2	PVC	62.0	Overburden	52.0	62.0	10	379.23	N/A	N/A	N/A	4795506	607523
MW-2D	6/8/2009	2	PVC	83.0	Overburden	72.5	82.5	10	379.18	N/A	N/A	N/A	4795503	607520
MW-4S	6/5/2009	2	PVC	30.0	Overburden	17.0	27.0	10	378.79	375.35	358.35	348.35	4795496	607725
MW-4I	6/29/2009	2	PVC	62.0	Overburden	52.0	62.0	10	380.13	N/A	N/A	N/A	4795487	607722
MW-4D	6/30/2009	2	PVC	82.0	Overburden	72.0	82.0	10	379.66	N/A	N/A	N/A	4795496	607725
MW-5S	8/31/1999	2	PVC	29.0	Overburden	18.5	28.5	10	378.63	377.15	358.65	348.65	4795399	607502
MW-5I	9/2/2009	2	PVC	65.0	Overburden	56.0	66.0	10	380.23	377.35	321.35	311.35	4795404	607676
MW-5D	9/4/1999	2	PVC	89.0	Overburden	74.0	84.0	10	378.38	376.71	302.71	292.71	4795413	607671
MW-6S	8/24/1999	2	PVC	26.0	Overburden	16.0	26.0	10	381.95	380.68	364.68	354.68	4795376	607621
MW-6I	8/26/1999	2	PVC	65.0	Overburden	55.0	65.0	10	382.2	380.49	325.49	315.49	4795374	607617
MW-6D	9/2/2009	2	PVC	110.0	Overburden	82.5	92.5	10	381.72	380.56	298.06	288.06	4795378	607613
MW-7S	10/31/2000	2	PVC	32.5	Overburden	22.5	32.5	10	380.85	379.43	356.93	346.93	4795392	607795
MW-7I	10/31/2000	2	PVC	59.5	Overburden	49.0	59.0	10	381.82	379.03	330.03	320.03	4795399	607793
MW-7D	N/A	N/A	N/A	N/A	Overburden	N/A	N/A	N/A	380.62	N/A	N/A	N/A	4795410	607789
MW-8S	11/1/2000	2	PVC	33.0	Overburden	23.0	33.0	10	382.22	378.61	355.61	345.61	4795348	607774
MW-8I	11/2/2000	2	PVC	63.0	Overburden	53.0	63.0	10	381.76	378.66	325.66	315.66	4795345	607780
MW-9S	11/1/2000	2	PVC	30.0	Overburden	19.5	29.5	10	382.00	379.64	360.14	350.14	4795579	607742
MW-10SR	1/7/2020	2	PVC	28.0	Overburden	18.0	28.0	10	N/A	N/A	N/A	N/A	N/A	N/A
MW-11SR	1/7/2020	2	PVC	28.0	Overburden	18.0	28.0	10	N/A	N/A	N/A	N/A	N/A	N/A
MW-12S	6/2/2009	2	PVC	23.0	Overburden	13.0	23.0	10	382.08	N/A	N/A	N/A	4795396	607534
MW-12I	7/10/2009	2	PVC	66.0	Overburden	56.0	66.0	10	382.38	N/A	N/A	N/A	4795393	607533
MW-12D	6/12/2009	2	PVC	85.0	Overburden	75.0	85.0	10	381.87	N/A	N/A	N/A	4795429	607609
MW-13S	6/3/2009	2	PVC	28.0	Overburden	15.0	25.0	10	384.23	N/A	N/A	N/A	4795429	607609
MW-13I	6/18/2009	2	PVC	68.0	Overburden	58.0	68.0	10	384.38	N/A	N/A	N/A	4795428	607616
MW-13D	6/19/2009	2	PVC	87.0	Overburden	77.0	87.0	10	384.15	N/A	N/A	N/A	4795425	607610
MW-14S	6/2/2009	2	PVC	33.0	Overburden	22.0	32.0	10	381.91	N/A	N/A	N/A	4795335	607687
MW-14I	6/22/2009	2	PVC	65.0	Overburden	55.0	65.0	10	382.2	N/A	N/A	N/A	4795335	607690
MW-14D	6/23/2009	2	PVC	87.0	Overburden	77.0	87.0	10	382.47	N/A	N/A	N/A	4795335	607685
MW-15S	6/4/2009	2	PVC	25.0	Overburden	13.5	23.5	10	378.18	N/A	N/A	N/A	4795444	607553
MW-16S	6/4/2009	2	PVC	25.0	Overburden	13.0	23.0	10	381.6	N/A	N/A	N/A	4795522	607573
MW-101-1	N/A	2	PVC	N/A	Overburden	N/A	N/A	N/A	382.18	380.71	N/A	N/A	4795312	607506
MW-101-2R	1/7/2020	2	PVC	23.0	Overburden	13.0	23.0	10	N/A	N/A	N/A	N/A	N/A	N/A
MW-101-3	N/A	2	PVC	N/A	Overburden	N/A	N/A	N/A	383.5	381.37	N/A	N/A	4795660	607372
MW-101-4	N/A	2.8	Steel	N/A	Overburden	N/A	N/A	N/A	366.92	364.72	N/A	N/A	4795640	607647
MW-101-5	N/A	2	PVC	N/A	Overburden	N/A	N/A	N/A	379.69	377.93	N/A	N/A	4795547	607628
MW-101-6S	N/A	2	PVC	27.50	Overburden	N/A	N/A	N/A	380.17	N/A	N/A	N/A	4795733	607580
MW-101-6I	N/A	2	PVC	53.67	Overburden	N/A	N/A	N/A	379.86	N/A	N/A	N/A	4795734	607579
MW-101-7S	N/A	2	PVC	N/A	Overburden	N/A	N/A	N/A	372.8	N/A	N/A	N/A	4795615	607646
MW-101-7I	N/A	2	PVC	N/A	Overburden	N/A	N/A	N/A	371.75	N/A	N/A	N/A	4795634	607639

Notes
AMSL : above mean sea level
feet bgs : feet below ground surface
PVC : polyvinyl chloride
N/A : not avaliable
STD UTM : Standard Universal Transverse Mercator

Table 2
New York State Department of Environmental Conservation
Luzerne Road Site (Site No. 557010) - Town of Queensbury, New York
Summary of Historical PCB Concentrations in Groundwater

		Sample Location:	MW-2S		MW-2S		MW-2S		MW-2S		MW-2S		MW-2S		MW-2S		MW-2S		MW-2I		MW-2I		MW-2I		MW-2I		MW-2D		MW-2D		MW-2D		MW-2D	
		Sample Date:	9/1/1999		9/1/2000		3/1/2001		6/1/2004		7/8/2009		5/17/2011		9/27/2011		06/19/2019		7/8/2009		5/17/2011		9/27/2011		06/19/2019		7/8/2009		5/17/2011		9/27/2011		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR		3.6			U		U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
Aroclor-1221	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
Aroclor-1232	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
Aroclor-1242	ug/L	NC	1.11		3.74		NR		6.4		6.9		6.4		5.5	P	**6.8**		0.86			U		U	**0.54**		0.71			U		U	**0.48**	**J**
Aroclor-1248	ug/L	NC	NR		NR			U		U		U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
Aroclor-1254	ug/L	NC		U		U	NR			U		U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
Aroclor-1260	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	1.0	UJ
PCBs, Total	ug/L	0.09	**1.11**		**3.74**		**3.6**		**6.4**		**6.9**		**6.4**		**5.5**	**P**	**6.8**		**0.86**		0.0		0.0		**0.54**		**0.71**		0.0		0.0		**0.48**	**J**

		Sample Location:	MW-4S		MW-4S		MW-4S		MW-4S		MW-4S		MW-4S		MW-4S		MW-4S		MW-4I		MW-4I		MW-4I		MW-4I		MW-4D		MW-4D		MW-4D		MW-4D	
		Sample Date:	9/1/1999		9/1/2000		3/1/2001		6/1/2004		7/7/2009		5/18/2011		9/26/2011		06/18/2019		7/7/2009		5/18/2011		9/26/2011		06/18/2019		7/7/2009		5/18/2011		9/26/2011		06/18/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	1.54		2.42		1.2			U		U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC		U		U		U	0.86		1.8		20		7.6	P	**1.2**	**J+**		U	130			U	0.50	U		U	10			U	0.50	U
Aroclor-1248	ug/L	NC		U		U		U		U		U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	**0.49**	**J**
Aroclor-1254	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR		NR		NR			U		U		U	1.0	U		U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**1.54**		**2.42**		**1.2**		**0.86**		**1.8**		**20**		**7.6**		**1.2**	**J+**	0.0		**130**		0.0		0.50	U	0.0		**10**		0.0		**0.49**	**J**

		Sample Location:	MW-5S		MW-5S		MW-5S		MW-5S		MW-5S		MW-5S		MW-5S		MW-5I		MW-5I		MW-5I		MW-5I		MW-5I		MW-5I		MW-5D		MW-5D		MW-5D		MW-5D		MW-5D	
		Sample Date:	9/1/1999		9/1/2000		6/1/2004		7/10/2009		5/18/2011		9/27/2011		06/18/2019		9/1/1999		9/1/2000		7/10/2009		5/18/2011		9/27/2011		06/19/2019		9/1/1999		9/1/2000		7/10/2009		5/19/2011		9/27/2011		06/20/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U	2.6			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1242	ug/L	NC	0.313		0.227			U	3.8		14		3.7	P	**1.7**		0.575			U		U		U		U	0.50	U		U		U		U	2.4			U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**0.313**		**0.227**		**2.6**		**3.8**		**14**		**3.7**	**P**	**1.7**		**0.575**		0.0		0.0		0.0		0.0		0.50	U	0.0		0.0		0.0		**2.4**		0.0		0.50	U

		Sample Location:	MW-6S		MW-6S		MW-6S		MW-6S		MW-6S		MW-6S		MW-6I		MW-6I		MW-6I		MW-6I		MW-6I		MW-6I		MW-6D		MW-6D		MW-6D		MW-6D		MW-6D		MW-6D	
		Sample Date:	9/1/1999		9/1/2000		7/9/2009		5/18/2011		9/28/2011		06/20/2019		9/1/1999		9/1/2000		7/9/2009		5/18/2011		9/28/2011		06/20/2019		9/1/1999		9/1/2000		7/9/2009		5/19/2011		9/28/2011		06/20/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1242	ug/L	NC		U	0.292		0.83	J	11		1.2	P	**0.60**			U	0.893			U		U		U	0.50	U		U		U	8			U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
PCBs, Total	ug/L	0.09	0.0		**0.292**		**0.83**		**11**		**1.2**	**P**	**0.60**		0.0		**0.893**		0.0		0.0		0.0		0.50	U	0.0		0.0		0.0		**8**		0.0		0.50	U

Notes:
ug/L - micrograms per liter.
J - Estimated value.
J+ - Estimated value; biased high.
NC - No NYSDEC standards exist for this analyte.
NJ - Estimated; tetatively identified
NR - Not reported.
P - Greater than 25% difference for detected concentrations between the two GC columns.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed the listed Guidance Value.
PCBs - Polychlorinated Biphenyls.
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998.

Table 2
New York State Department of Environmental Conservation
Luzerne Road Site (Site No. 557010) - Town of Queensbury, New York
Summary of Historical PCB Concentrations in Groundwater

		Sample Location:	MW-7S		MW-7S		MW-7S		MW-7S		MW-7S		MW-7S		MW-7I		MW-7I		MW-7I		MW-7I		MW-7I		MW-7D		MW-7D		MW-7D		MW-7D	
		Sample Date:	9/1/2000		3/1/2001		6/1/2004		7/13/2009		5/18/2011		9/27/2011		06/18/2019		9/1/2000		3/1/2001		7/13/2009		5/18/2011		9/27/2011		06/18/2019		7/10/2009		5/18/2011		9/27/2011		06/18/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U	0.78			U		U		U		U	0.50	U		U	1.7			U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC		U		U	3		0.56		34		3.1	P	**0.88**	**NJ**	NR		NR		2.2		3.8		1.7	P	**1.5**			U		U		U	0.50	U
Aroclor-1248	ug/L	NC		U		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1254	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	0.0		**0.78**		**3.0**		**0.56**		**34**		**3.1**	**P**	**0.88**	**J**	0.0		**1.7**		**2.2**		**3.8**		**1.7**	**P**	**1.5**		0.0		0.0		0.0		0.50	U

		Sample Location:	MW-8S		MW-8S		MW-8S		MW-8S		MW-8S		MW-8S		MW-8I		MW-8I		MW-8I		MW-8I		MW-8I		MW-8I		MW-9S		MW-9S		MW-9S		MW-9S		MW-9S		MW-9S	
		Sample Date:	11/1/2000		3/1/2001		6/1/2004		7/14/2019		5/18/2011		9/27/2011		06/18/2019		11/1/2000		3/1/2001		7/14/2009		5/18/2011		9/27/2011		06/18/2019		11/1/2000		6/1/2004		7/10/2009		5/18/2011		9/26/2011		06/18/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1242	ug/L	NC	0.222		1.2		1.2		0.87	J	13		4.2		**0.46**			U		U		U		U		U	0.50	U		U		U		U	19			U	**0.44**	
Aroclor-1248	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		U		U	0.50	U		U		U		U		U		U	0.50	U		U	.06			U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U	NR		NR			U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**0.222**		**1.2**		**1.2**		**0.87**	**J**	**13**		**4.2**		**0.46**		0.0		0.0		0.0		0.0		0.0		0.50	U	0.0		0.06		0.0		**19**		0.0		**0.44**	

		Sample Location:	MW-12S		MW-12S		MW-12S		MW-12S		MW-12S		MW-12S		MW-12I		MW-12I		MW-12I		MW-12I		MW-12D		MW-12D		MW-12D		MW-12D	
		Sample Date:	11/1/2002		6/1/2004		7/8/2009		5/17/2011		9/28/2011		06/20/2019		7/7/2009		5/17/2011		9/28/2011		06/20/2019		7/7/2009		5/17/2011		9/28/2011		06/20/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC	1.2			U		U		U	1.3		0.50	U	0.32	J	2.6			U	0.50	U		U		U		U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1254	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**1.2**		0.0		0.0		0.0		**1.3**		0.50	U	**0.32**	**J**	**2.6**		0.0		0.50	U	0.0		0.0		0.0		0.50	U

		Sample Location:	MW-13S		MW-13S		MW-13S		MW-13S		MW-13S		MW-13S		MW-13I		MW-13I		MW-13I		MW-13I		MW-13D		MW-13D		MW-13D		MW-13D	
		Sample Date:	11/1/2002		6/1/2004		7/9/2009		5/17/2011		9/28/2011		06/19/2019		7/9/2009		5/17/2011		9/28/2011		06/19/2019		7/9/2009		5/17/2011		9/28/2011		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U		U		U	2.5	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	2.5	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	2.5	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC	3		0.2		8.1	J	20		16	E	**2.7**		0.19	J	14		3.3		0.50	U	0.25	J	3.2			U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	2.5	U		U		U		U	**0.23**	**J**		U		U		U	0.50	U
Aroclor-1254	ug/L	NC	NR		NR			U		U		U	2.5	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	2.5	U		U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**3**		**0.2**		**8.1**	**J**	**20**		**16**	**E**	**2.7**		**0.19**	**J**	**14**		**3.3**		**0.23**	**J**	**0.25**	**J**	**3.2**		0.0		0.50	U

Notes:
ug/L - micrograms per liter.
J - Estimated value.
J+ - Estimated value; biased high.
NC - No NYSDEC standards exist for this analyte.
NJ - Estimated; tetatively identified
NR - Not reported.
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PCBs - Polychlorinated Biphenyls.
* - NYSDEC Ambient Water Quality Standards and Guic

Table 2
New York State Department of Environmental Conservation
Luzerne Road Site (Site No. 557010) - Town of Queensbury, New York
Summary of Historical PCB Concentrations in Groundwater

		Sample Location:	MW-14S		MW-14S		MW-14S		MW-14S		MW-14S		MW-14S		MW-14I		MW-14I		MW-14I		MW-14I		MW-14D		MW-14D		MW-14D		MW-14D	
		Sample Date:	11/1/2002		6/1/2004		7/10/2009		5/19/2011		9/27/2011		06/20/2019		7/9/2009		5/19/2011		9/27/2011		06/18/2019		7/10/2009		5/19/2011		9/27/2011		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U	0.28			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	**0.25**	**J**		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC	0.52			U		U	6.5			U	0.50	U		U		U		U	0.50	U	0.53	J	5.4			U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1254	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	0.50	U		U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**0.52**		**0.28**		0.0		**6.5**		0.0		**0.25**	**J**	0.0		0.0		0.0		0.50	U	**0.53**	**J**	**5.4**		0.0		0.50	U

		Sample Location:	MW-15S		MW-15S		MW-15S		MW-15S		MW-15S		MW-16S	
		Sample Date:	7/8/2009		8/19/2009		5/17/2011		9/28/2011		06/20/2019		06/21/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U		U	10	U	10	U
Aroclor-1221	ug/L	NC		U		U		U		U	10	U	10	U
Aroclor-1232	ug/L	NC		U		U		U		U	10	U	10	U
Aroclor-1242	ug/L	NC	190		200		120		120		**230**		**98**	
Aroclor-1248	ug/L	NC		U		U		U		U	10	U	10	U
Aroclor-1254	ug/L	NC		U		U		U		U	10	U	10	U
Aroclor-1260	ug/L	NC		U		U		U		U	10	U	10	U
PCBs, Total	ug/L	0.09	**190**		**200**		**120**		**120**		**230**		**98**	

		Sample Location:	MW-101-1		MW-101-1		MW-101-1		MW-101-1		MW-101-1		MW-101-1	
		Sample Date:	9/1/1999		9/1/2000		7/8/2009		5/19/2011		9/29/2011		06/21/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	**0.54**	
Aroclor-1242	ug/L	NC		U	0.546		0.28	J	1			U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	0.50	U
PCBs, Total	ug/L	0.09	0.0		**0.546**		**0.28**	J	**1**		0.0		**0.54**	

		Sample Location:	MW-101-3		MW-101-3		MW-101-3		MW-101-3		MW-101-3		MW-101-3		MW-101-4	
		Sample Date:	9/1/1999		9/1/2000		7/8/2009		5/20/2011		9/29/2011		06/21/2019		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR			U		U		NS	0.50	U	0.50	U
Aroclor-1221	ug/L	NC	NR		NR			U		U		NS	0.50	U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		NS	0.50	U	0.50	U
Aroclor-1242	ug/L	NC		U		U		U	3.4			NS	0.50	U	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		NS	0.50	U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		NS	0.50	U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		NS	0.50	U	0.50	U
PCBs, Total	ug/L	0.09	0.0		0.0		0.0		**3.4**		0.0		0.50	U	0.50	U

Notes:
ug/L - micrograms per liter.
J - Estimated value.
J+ - Estimated value; biased high.
NC - No NYSDEC standards exist for this analyte.
NJ - Estimated; tetatively identified
NR - Not reported.
P - Greater than 25% difference for detected concentratio
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Table 2
New York State Department of Environmental Conservation
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Summary of Historical PCB Concentrations in Groundwater

		Sample Location:	MW-101-5		MW-101-5		MW-101-5		MW-101-5		MW-101-5		MW-101-5	
		Sample Date:	9/1/1999		9/1/2000		7/13/2009		5/17/2011		9/26/2011		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	NR		NR			U		U		U	**1.6**	
Aroclor-1221	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1232	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1242	ug/L	NC	49.1		4.78		6.7		5.8		5.4	P	0.50	U
Aroclor-1248	ug/L	NC	NR		NR			U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC	NR		NR			U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**49.1**		**4.78**		**6.7**		**5.8**		**5.4**	**P**	**1.6**	

		Sample Location:	MW-101-6S		MW-101-6S		MW-101-6S		MW-101-6S	
		Sample Date:	7/14/2009		5/19/2011		9/26/2011		06/21/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U	0.50	U
Aroclor-1221	ug/L	NC		U		U		U	0.50	U
Aroclor-1232	ug/L	NC		U		U		U	0.50	U
Aroclor-1242	ug/L	NC		U	7.1			U	**2.2**	
Aroclor-1248	ug/L	NC		U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U	0.50	U
Aroclor-1260	ug/L	NC		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	0.0		**7.1**		0.0		**2.2**	

		Sample Location:	MW-101-6I		MW-101-6I		MW-101-6I		MW-101-6I	
		Sample Date:	7/14/2009		5/16/2011		9/26/2011		06/21/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U	0.50	U
Aroclor-1221	ug/L	NC		U		U		U	0.50	U
Aroclor-1232	ug/L	NC		U		U		U	0.50	U
Aroclor-1242	ug/L	NC		U		U		U	**10**	
Aroclor-1248	ug/L	NC		U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U	0.50	U
Aroclor-1260	ug/L	NC		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	0.0		0.0		0.0		**10**	

		Sample Location:	MW-101-7S		MW-101-7S		MW-101-7S		MW-101-7S		MW-101-7I		MW-101-7I		MW-101-7I		MW-101-7I	
		Sample Date:	7/13/2009		5/18/2011		9/26/2011		06/19/2019		7/13/2009		5/19/2011		9/26/2011		06/19/2019	
PCB Aroclors	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1221	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1232	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1242	ug/L	NC	1.9		4.5			U	**0.22**	**J**		U	3.9			U	0.50	U
Aroclor-1248	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1254	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
Aroclor-1260	ug/L	NC		U		U		U	0.50	U		U		U		U	0.50	U
PCBs, Total	ug/L	0.09	**1.9**		**4.5**		0.0		**0.22**	**J**	0.0		**3.9**		0.0		0.50	U

Notes:
ug/L - micrograms per liter.
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APPENDIX A

CUSTODIAL RECORD

PERTINENT SITE DOCUMENTS

LUZERNE ROAD (NYSDEC SITE NO. 557010)

Ecology and Environment Engineering, P.C., *Work Plan for Remedial Investigations and Feasibility Studies at the Luzerne Road Site, Queensbury, New York,* June 1999

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Malcolm Pirnie, Inc., *Remedial Construction Report,* Luzerne Road Site, January 2010

Malcolm Pirnie, Inc., *Site Management Plan,* Luzerne Road Site, May 2010

New York State Department of Environmental Conservation, *Environmental Notice,* Luzerne Road Inactive Hazardous Waste Site, made June 2012, filed July 2012

D&B Engineers and Architects, P.C., *Periodic Review Report No. 1: January 2011 – December 2011,* Luzerne Road Site, November 2012

New York State Department of Environmental Conservation, *Site Management Plan, Rev. 1,* Luzerne Road Site, March 2015

New York State Department of Environmental Conservation, *Environmental Notice,* Luzerne Road Inactive Hazardous Waste Site, made August 2017, filed September 2017

New York State Department of Environmental Conservation, *Site Management Plan, Rev. 2,* Luzerne Road Site, June 2018

TRC Engineers, Inc., *Periodic Review Report: November 2012 – April 2020,* Luzerne Road Site, July 2020

TRC Engineers, Inc., *Site Management Plan, Rev. 3,* Luzerne Road, April 2021

SITE HISTORY

LUZERNE ROAD SITE (NYSDEC SITE NO. 557010)

Date	Description
1950s – 1970s	The Luzerne Road Site operated as a salvage yard for automotive and industrial equipment. Salvaging operations were performed on off-specification capacitors for the removal of copper and other metals, which resulted in fluids and oils containing polychlorinated biphenyls (PCBs) to be released onto the ground surface. Small-scale, off-Site salvage operations were also conducted during the 1960s and 1970s. The exact date of salvage operation cessation has not been determined.
1979	The New York State Department of Environmental Conservation (NYSDEC) implemented an Interim Remedial Measure (IRM) to temporarily contain PCB-contaminated wastes that had been disposed of at the Site. The IRM included the construction of a clay-lined containment cell on-Site to hold highly contaminated materials until a suitable remedial technology could be applied. Impacted soils from adjacent properties, including three private residences and the 53/55 Luzerne Road properties, were mostly removed and deposited inside the containment cell until the cell reached capacity. Leachate from the containment cell was monitored and periodically removed until 1987.
1987	The NYSDEC listed the Site as a Class 2 Inactive Hazardous Waste Disposal Site.
1999	Ecology and Environment Engineering, P.C. (E&E) prepared a Remedial Investigation/Feasibility Study (RI/FS) Work Plan. The Site was divided into three operable units (OUs): the previously constructed PCB containment cell (OU-1); on-Site groundwater, along with on-Site and off-Site soils (OU-2); and off-Site groundwater located in residential areas (OU-3). Remedial activities were completed from May 1999 to March 2001. Regarding possible PCB residuals on the private properties remediated in 1979, a questionnaire was distributed to over 50 homes to develop a soil sampling strategy. Three rounds of soil sampling were completed from September 1999 to May 2000.
2000	Excavation of soils on private properties with PCBs greater than one part per million (ppm) began in September 2000 and was completed by April 2001.
2002	In August, E&E prepared a RI Report to present findings of the OU-1 and OU-2 investigation activities.
2003	In June, the NYSDEC Bureau of Construction Services prepared a Post Remediation Report for the September 2000 IRM consisting of PCB contamination soil excavation, removal, and disposal from private properties.
2004	In May, E&E prepared a FS Report to address contamination within OU-1, OU-2, and OU-3. In December, a Proposed Remedial Action Plan (PRAP) was prepared by NYSDEC based on the FS Report.

2005	In March, a Record of Decision (ROD) was issued and required the excavation of soils from the containment cell and excavation of the on-Site contaminated surface soil to one ppm of PCBs in the top one foot and to 10 ppm of PCBs and greater in the subsurface soils. A demarcation layer was to be installed over soils residually contaminated above one ppm. Additionally, excavated materials were to be treated on-Site via thermal desorption.
2008	In February, an Explanation of Significant Differences (ESD) was prepared by NYSDEC to document an alternative option to the selected remedy consisting of on-Site thermal treatment of soil contaminated with PCBs.
2009	Remedial activities were completed in accordance with the 2005 ROD and 2008 ESD. Site restoration consisted of placement of the treated soil, placement of topsoil, and seeding of excavated or filled areas.
2010	In January, a Remedial Construction Report was prepared by Malcolm Pirnie, Inc. (MPI) to document the construction activities as part of the OU-2 remedial design, completed in accordance with the 2005 ROD and the 2008 ESD. In May, a Site Management Plan (SMP) was prepared by MPI for the management of remaining contamination in Site soil and groundwater.
2012	In June, an Environmental Notice was filed for the main parcel of the Site, located at 51 Luzerne Road (Tax Map Lot No. 309.10-1-91). In November, a Periodic Review Report (PRR) was prepared by D&B Engineers and Architects, P.C. for the reporting period January 2011 to December 2011.
2015	The SMP was updated by NYSDEC to include the Site inspection, sampling, the 2012 Environmental Notice, and reporting recommendations from the 2012 PRR.
2017	In August, a second Environmental Notice was issued to include the adjacent parcels, located at 53 Luzerne Road (Tax Map Lot Nos. 309.10-1-90 and 309.10-88.11).
2018	The SMP was revised by NYSDEC to include the 2017 Environmental Notice, suspend routine sampling indefinitely (but include a 5-year sampling period provision to be executed at the discretion of NYSDEC), and include a one-year reporting period to certify Engineering and Institutional Controls.
2020	In July, TRC Engineers, Inc. prepared a PRR for the reporting period November 2012 to April 2020.
2021	The SMP was revised by TRC Engineers, Inc. to update formatting and to include a discussion of off-Site soil contamination.

APPENDIX B

Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form

Site Details **Box 1**

Site No. 557010

Site Name Luzerne Road Site

Site Address: Luzerne Road Zip Code: 12801
City/Town: Queensbury
County: Warren
Site Acreage: 9.0

Reporting Period: April 01, 2020 to April 01, 2023

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. To your knowledge is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

_____ _____
Signature of Standby Consultant/Contractor Date

SITE NO. 557010 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
118.-1-5	State of New York-Attn: Dept of Audit C	Ground Water Use Restriction Landuse Restriction Site Management Plan IC/EC Plan Monitoring Plan

An EN has been placed on this parcel, as NYS is the owner. EN requires compliance with SMP. EN allowed uses include both commercial and industrial. Groundwater use prohibited without proper treatment.

309.10-1-88.11	A & Q Holdings, LLC	Site Management Plan

Although remedy achieved 1 and 10 ppm for surface and subsurface, residual PCBs are present so there is a need for excavation control if digging below demarcation layer, or digging. Also groundwater use needs to be restricted. ENs exist on adjacent parcels 309.10-1-90 and 309.10-1-91. One needs to be placed on this parcel, 309.10-99.11.

309.10-1-90	A & Q Holdings, LLC	Site Management Plan Landuse Restriction Ground Water Use Restriction

Although remedy achieved 1 and 10 ppm for surface and subsurface, residual PCBs remain. Excavati control is required if for digging below the demarcation layer. Also groundwater use is restricted. An El was placed on 309.10-1-90 in 2017.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
118.-1-5	Cover System

PCB concentrations greater than 1 ppm exist in subsurface soils. A demarcation layer was placed at bottom all excavations, indicating the possibility that underlying soils may exceed 1 ppm PCB. A layer of clean soil was also placed on top of all areas used during implementation of the remedy, as a precautionary measure. A demarcation layer was placed before this soil was added, to denote the transition from one material to the other.

309.10-1-88.11	Subsurface Barriers Monitoring Wells

Monitoring wells, demarcation fabric

309.10-1-90	Subsurface Barriers Monitoring Wells

A fabric demarcation layer has been placed in the subsoil. Monitoring wells are present.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

_____ _____

Signature of Standby Consultant/Contractor Date

Box 6

IC/EC CERTIFICATIONS

Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I ___Matthew Hoskins, P.G._____ at ____TRC, Engineers, Inc._____
print name

_____215 Greenfield Parkway, Suite 102_____

_____Liverpool, NY 13088_____,
(print business address)

am certifying as a Qualified Environmental Professional.

Signature of  Stamp (Required for PE) Date

APPENDIX C

TRC		**DATE: Tuesday, July 27th, 2021**
		REPORT NO. 20210727
		PAGE NO. 1 OF 2
		PROJECT NO. 320919.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Luzerne Road Site
LOCATION	51 Luzerne Road, Queensbury, NY
ATTACHMENTS	N/A

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	09:50	75°F	None	0-5	Var.
Sunny	11:00	75°F	None	0-5	Var.

SITE CONDITIONS: Clear

WORK GOAL FOR DAY: IDW Pick-up

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Lexie Lill	TRC Engineers, Inc.	09:50	11:00
Ray	Miller Environmental Group	10:15	11:00

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
N/A			

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Lexie Lill

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Tuesday, July 27, 2021**
		REPORT NO. 20210727
		PAGE NO. 1 OF 2
		PROJECT NO. 320919.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a site visit on Tuesday, July 27th, 2021 at the Luzerne Road Site (Site) located at 51 Luzerne Road, Queensbury, New York in order to provide oversight for the IDW pick-up in the southern portion of the Site.

TRC arrived on Site at 09:50 am to observe the IDW Pickup of six 55-gallon drums. Miller Environmental Group arrived on Site at 10:15 to label the six drums and remove them from the Site. TRC signed the waste manifest after the drums were successfully removed from the Site and was off Site at 11:00 am.

PREPARED BY (OBSERVER): Lexie Lill	**REVIEWED BY:** Nathan Kranes

DAILY FIELD ACTIVITY REPORT

Report Number: 01072020 TRC Project Number: 320919.0000.0000

Date: 01.07.2020

Project: NYSDEC Luzerne Road Site (Site No. 557010)

Address: Luzerne Road, Town of Queensbury, New York

Weather: (AM) Cloudy Rainfall: (AM) 0.00 Inches
(PM) Cloudy (PM) 0.00 Inches

Temperature: (AM) 20's ºF Wind Speed: (AM) 0-5 MPH Wind Direction: (AM) Var.
(PM) 20's ºF (PM) 0-5 MPH (PM) Var.

Site Area Condition: Gates locked upon arrival, access road mowed. Site dry with the exception of wetland.

Personnel On Site

Name	Affiliation	Arrival Time	Departure Time
Steve Johansson	TRC Engineers, Inc.	07:00	17:00
Cait Serowik	TRC Engineers, Inc.	07:00	17:00

Work Performed by TRC Engineer(s) (include equipment used):

I. Work Performed:

1. Calibrate/field check screening/ (CAMP) instrumentation and set-up.
2. Review scope of work for the day and conduct safety tailgate.
3. Mobilize rig to LRS-MW-10S location. Advance soil boring to a depth of 28 feet below ground surface (bgs). Set well at 28 feet bgs and constructed well with 2-inch diameter, 10-foot screen (18-28 feet bgs), and standard well construction.
4. Remove augers from LRS-MW-10S.
5. Install above ground pipe and outer casing.
6. Construct concrete surface pad.
7. Demobilize from LRS-MW-10S.
8. Mobilize rig to LRS-MW-11S location. Advance soil boring to a depth of 28 feet bgs. Set well at 28 feet bgs and constructed well with 2-inch diameter, 10-foot screen (18-28 feet bgs), and standard well construction.
9. Remove augers from LRS-MW-11S.
10. Install above ground pipe and outer casing.
11. Construct concrete surface pad.
12. Demobilize from LRS-MW-11S.
13. Mobilize rig to LRS-101-2 location. Advance soil boring to a depth of 23 feet bgs. Set well at 23 feet bgs and constructed well with 2-inch diameter, 10-foot screen (13-23 bgs), standard well construction.
14. Remove augurs from LRS-MW-101-2.

DAILY FIELD ACTIVITY REPORT

15. Install above ground pipe and outer casing.
16. Construct concrete surface pad.
17. Demobilize from LRS-MW-11S and from Luzerne Road Site.

II. Equipment/Items used:

1. 3 X PID (organic vapor monitor)
2. 3 X DustTrax (particulate monitor)
3. 3 X CAMP Set-Up (tripod/enclosure)
4. Hand tools (shovels, pipe wrenches, socket/ratchet, etc.)
5. CME 55 (equipped with 6.25-inch HSAs, 2-inch X 2-foot SS)

HEALTH & SAFETY:

(*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Were there any PID exceedances reported in the work zone on this date? **PID: *Yes ( ) No (X) NA ( )**

***WASTE*:**

(*If any box(s) below are checked "Yes", list the deviation under the "Details" sub-section of this report).

Were there any IDW generated? ***Yes ( ) No (X) NA ( )**

Estimated Total - 6 soil 55-gallon drums

All drums labeled (Y/N): Yes

PROJECT SCHEDULE:

- NA

ISSUES PENDING:

None.

ITEMS OF CONCERN:

None.

TRC		**DATE: Thursday, April 1 , 2021**
		REPORT NO. 20210401
		PAGE NO. 1 OF 2
		PROJECT NO. 320919.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Luzerne Road Site
LOCATION	Queensbury, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Overcast	1000	40°F	None	5	E
Overcast	1400	41F	None	5	E

SITE CONDITIONS: Cloudy, dry

WORK GOAL FOR DAY: Waste characterization for drill cuttings

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Caitlin Serowik	TRC Engineers, Inc.	11:00	12:30
Steve Johansson	TRC Engineers, Inc.	11:00	12:30

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Steve Johansson

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Thursday, April 1 , 2021**
		REPORT NO. 20210401
		PAGE NO. 2 OF 2
		PROJECT NO. 320919.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) mobilized to conduct sampling for waste characterization for the six drums filled with soil cuttings from the monitoring well installation that occurred on January 8th, 2020. During the well installation, six drums of soil were generated, two from each well. The team identified the drums, as they were labeled with their respective monitoring well locations prior to staging and created composite samples from the two drums of soil generated per monitoring well. TRC demobilized from the site and submitted the three samples submitted for analysis: LRS-COMP-10S, LRS-COMP-101-2, and LRS-COMP-11S to Test America Laboratories for analysis using EPA method 8260C for Full Toxicity Characteristic Leaching Procedure (TCLP) (VOCs, SVOCs/metals + cyanide, PFAS, TCL Pesticides, TCL Herbicides, TCL Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH) (gasoline and diesel range organics), pH, and ignitability.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Caitlin Serowik	**PRINT NAME:** Steve Johannsson

NYSDEC Luzerne Road Site
Photograph Log
Date: April 1, 2021

Photo 1: Looking northeast at staged drums.

Photo 2: Overview of drums from MW-10S.

Photo 3: Overview of the drums from MW-11S

Photo 4: Overview of the drums from MW-101-2

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
320919.0000 .0000	Cait Serowik	1 of 1	NYSDEC	Luzerne Road Site Queensbury, NY	TRC

TRC		DATE: Wednesday, November 3, 2021
		REPORT NO. 20211103
		PAGE NO. 1 OF 2
		PROJECT NO. 320919.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Luzerne Road Site
LOCATION	Queensbury, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Clear	1100	40°F	None	3	Var.
Clear	1500	38°F	None	2	Var.

SITE CONDITIONS: Clear. dry

WORK GOAL FOR DAY: Post-storm inspection

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Caitlin Serowik	TRC Engineers, Inc.	14:00	16:00

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jon Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Wednesday, November 3, 2021**
		REPORT NO. 20211103
		PAGE NO. 2 OF 2
		PROJECT NO. 320919.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a post storm inspection event on Wednesday, November 3rd, 2021, at the Luzerne Road Site located off of Luzerne Road, in the town of Queensbury, New York. The objective of the inspection was to note the general site conditions following the frequent storm events that have occurred in the area.

Upon arrival, TRC conducted a walk of the perimeter of the Site to observe signs of damage to the cap and to note the condition of the monitoring wells. No signs of damage or significant disturbance were identified during the time of the inspection.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Caitlin Serowik	**PRINT NAME:** Nate Kranes

NYSDEC Luzerne Road Site
Photograph Log
Date: November 3rd, 2021

Photo 1: Looking west at monitoring wells MW-8S and MW-8I.

Photo 2: Looking east at an overview of the eastern boundary of the Site.

Photo 3: Looking east. View of monitoring well MW-10S.

Photo 4: Looking northeast. View of monitoring wells MW-13S, MW-13I, and MW-13D.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
320919.0000 .0000	Cailin Serowik	1 of 1	NYSDEC	Luzerne Road Site Queensbury, NY	TRC

TRC		**DATE: Tuesday, May 24, 2022**
		REPORT NO. 20220524
		PAGE NO. 1 OF 2
		PROJECT NO. 470744.0011.0000
		LOGBOOK NO. 550F PAGES 121 to 123

DAILY FIELD ACTIVITY REPORT

PROJECT Luzerne Road

LOCATION 51-53 Luzerne Rd, Queensbury, NY

ATTACHMENTS Photo Log, Field Map

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	10:00	64°F	None	0-5 MPH	ENE
Sunny	14:00	72°F	None	0-5 MPH	ENE

SITE CONDITIONS: Clear, Dry

WORK GOAL FOR DAY: Site-wide inspection and monitoring well inspection

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Taylor Shanley	TRC Engineers, Inc.	10:00	14:00
Rich DePolo	TRC Engineers, Inc.	10:00	14:00

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
NA			

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Taylor Shanley

H & S NOTES: Site work performed in Level D PPE.

TRC		**DATE: Tuesday, May 24, 2022**
		REPORT NO. 20220524
		PAGE NO. 2 OF 2
		PROJECT NO. 470744.0011.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) performed a semi-annual site inspection on Tuesday, May 24, 2022 at the Luzerne Road Site (Site) located at 51 to 53 Luzerne Road in the Town of Queensbury, NY. The purpose of the site inspection was to document general site conditions, and to evaluate the condition of the groundwater monitoring wells.

Upon arrival to the Site, TRC conducted a tailgate safety meeting. After the safety brief, TRC conducted a Site-wide inspection. The landfill inspection included walking the perimeter of the landfill, areas of the landfill slope and the top of the landfill. The landfill cap was dry and the soil stable, with no visible erosion, cracks, settlement, or seeps. The landfill cap appeared intact and in good condition. The swales, channels and basin are stable with no noticeable areas of active erosion. Vegetation is low throughout the site and generally appears healthy. Stressed vegetation was observed in the southern stormwater retention basin (See attached Photolog). No large, woody growth was noted on the cap. An animal burrow was noted along the northern perimeter of the cap (See attached Photolog and Field Map). TRC recommends the animal burrow be filled in to prevent further damage to the cap. The perimeter fence is in good condition with no damage or holes. A shelter consisting of a tarp and mattress was noted along the eastern portion of the fence during the inspection. It appears that someone is living in the shelter. General trash was observed in the area. TRC did not encounter any persons while on Site. No signs of entry to the Site were observed near the shelter.

The landfill gas venting system, consisting of three gas vents, was inspected for signs of damage during the site inspection. The inspection was limited to visible portions of the system, and the ground surface over the gas collection lines. The passive landfill gas vents appeared in good condition, properly secured, and functioning.

TRC conducted an inspection of Site monitoring wells. TRC was able to locate 39 of 40 wells. Monitoring well MW-101-3 was not located due to dense woods and unsafe access from Interstate 87. All located wells were noted in fair to good condition. Monitoring well MW-101-4 is in fair condition with bowing in the PVC riser approximately 2 feet below top of casing which does not appear to disrupt sampling. All wells are equipped with functioning locks keyed to 2537. Monitoring wells MW-101-4, MW-101-5, and MW-6I are without PVC riser plugs. TRC recommends adding 2" plugs during the next inspection. In addition to the 39 wells, TRC located monitoring well MW-101-10S(R) which is not mentioned in the Site Management Plan (SMP). MW-101-10S(R) was found in good condition. In addition, the location of monitoring well MW-11S was observed to be incorrectly depicted on Figure 2 of the SMP and needs to be revised (See attached Field Map).

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Taylor Shanley	**PRINT NAME:** Matthew Hoskins, P.G.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: May 24, 2022

Photo 1: Photo of MW-8I. Looking north.

Photo 2: Photo of MW-7D, MW-7I, and MW-7S. Looking northeast.

Photo 3: Photo of MW-5D, MW-5I, and MW-5S. Looking west.

Photo 4: Photo of MW-15S and the eastern side of the landfill cap. Looking west.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: May 24, 2022

Photo 5: Photo of MW-2D, MW-2I, and MW-2S. Looking west.

Photo 6: Photo of the access gate along the eastern perimeter of the landfill cap. Looking west.

Photo 7: Photo of the shelter along the eastern side of the perimeter fence. Looking northwest.

Photo 8: Photo of the northern stormwater retention basin. Looking north.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: May 24, 2022

Photo 9: Photo of the southern stormwater retention basin. Looking east.

Photo 10: Photo of the western perimeter of the landfill. Looking north.

Photo 11: Photo of a passive landfill gas vent. Looking south.

Photo 12: Photo of the top of the landfill cap. Looking south.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: May 24, 2022

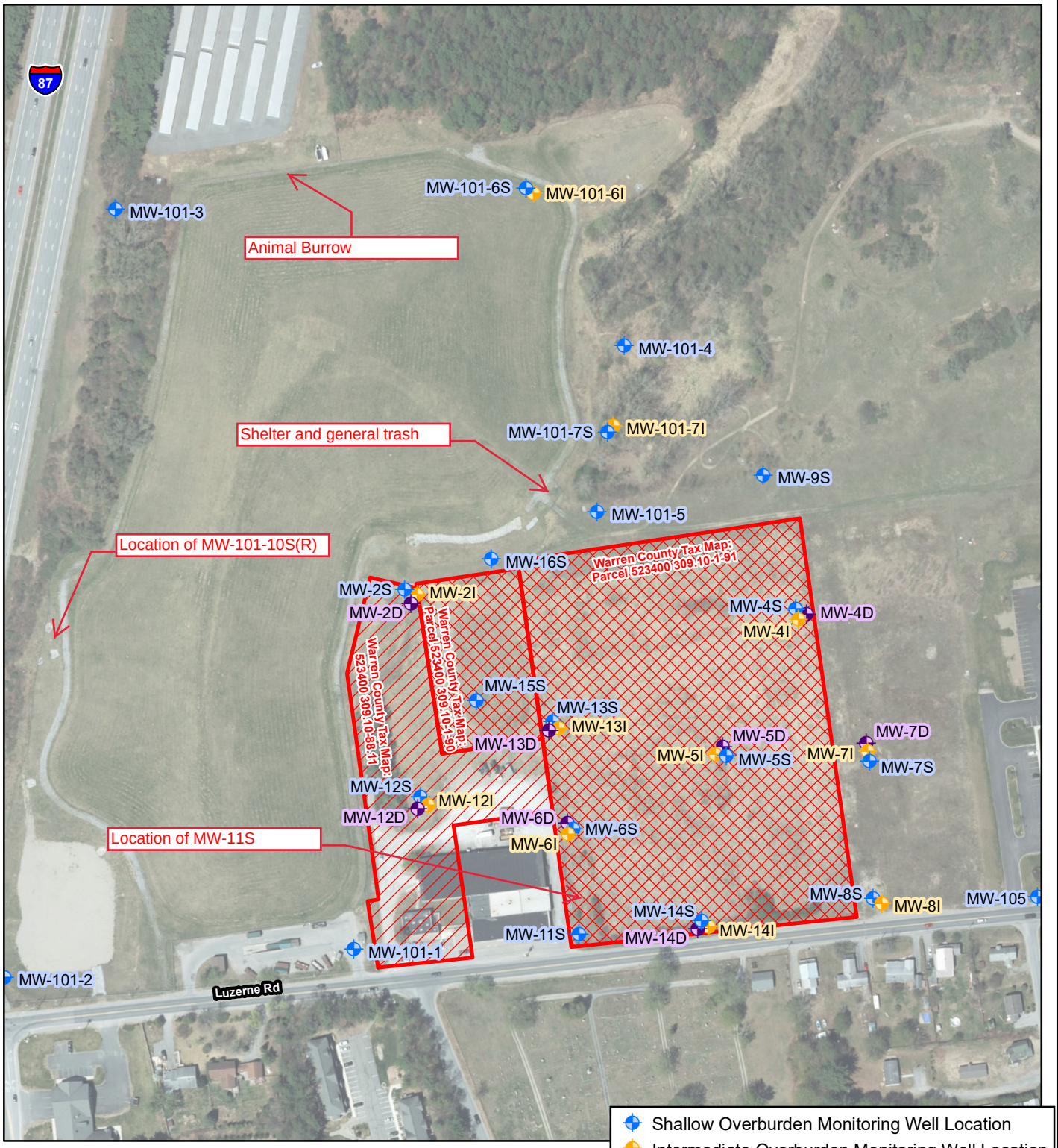
Photo 13: Photo of MW-101-10S(R), which was not included in the Site Management Plan. Looking west.

Photo 14: Photo of the area of MW-101-10S(R) along the western perimeter of the landfill. Looking south.

Photo 15: Photo of dense vegetation inhibiting access to MW-101-3. Looking west.

Photo 16: Photo of an animal burrow along the northern perimeter of the landfill cap. Looking south.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
470744.0011 .0000	Rich DePolo and Taylor Shanley	4 of 4	NYSDEC	Luzerne Road Queensbury, NY	TRC



BASE MAP FROM ESRI, 2018

Note: All locations and boundaries are approximate

1 " = 250 '
1:3,000

0 200 400 FEET

- Shallow Overburden Monitoring Well Location
- Intermediate Overburden Monitoring Well Location
- Deep Overburden Monitoring Well Location
- Site Property and 2012 Environmental Notice
- 2017 Environmental Notice

TRC
10 Maxwell Drive, Suite 200
Clifton Park, NY 12065
Phone: 518.348.1190
www.trccompanies.com

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
LUZERNE ROAD SITE - SITE NO. 557010
51-53 LUZERNE ROAD
QUEENSBURY, NEW YORK

TITLE: May 2022 Site Inspection Observations

SITE LAYOUT MAP

DRAWN BY:	M. OPEL
CHECKED BY:	C. SEROWIK
APPROVED BY:	N. KRANES
DATE:	FEBRUARY 2021
PROJ. NO.:	320919.0000
FILE:	Fig02_SiteLayout.mxd

FIGURE 2

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TRC		**DATE: Tuesday, November 15, 2022**
		REPORT NO. 20221115
		PAGE NO. 1 OF 2
		PROJECT NO. 470744.0011.0000
		LOGBOOK NO. E64 PAGES 17 to 18

DAILY FIELD ACTIVITY REPORT

PROJECT	Luzerne Road
LOCATION	51-53 Luzerne Rd, Queensbury, NY
ATTACHMENTS	Photo Log, Field Map

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny	9:00	35°F	None	0-5 MPH	ENE
Sunny	11:30	39°F	None	0-5 MPH	ENE

SITE CONDITIONS: Clear, Dry

WORK GOAL FOR DAY: Site-wide inspection and monitoring well inspection

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Rich DePolo	TRC Engineers, Inc.	9:00	11:30

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
NA			

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Rich DePolo

H & S NOTES: Site work performed in Level D PPE.

TRC		**DATE: Tuesday, November 15, 2022**
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DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) performed a semi-annual site inspection on Tuesday, November 15, 2022, at the Luzerne Road Site (Site) located at 51 to 53 Luzerne Road in the Town of Queensbury, NY. The purpose of the site inspection was to document general site conditions, and to evaluate the condition of the groundwater monitoring wells.

Upon arrival to the Site, TRC conducted a Site-wide inspection. The landfill inspection included walking the perimeter of the landfill, areas of the landfill slope and the top of the landfill. The landfill cap was dry and the soil stable, with no visible erosion, cracks, settlement, or seeps. The landfill cap appeared intact and in good condition. The swales, channels and basin were stable with no noticeable areas of active erosion. Vegetation is low throughout the site and generally appears healthy. Stressed vegetation was observed in the southern stormwater retention basin, where the drainage empties out. This was observed during the prior inspection (See attached Photolog). No large, woody growth was noted on the cap.

There are multiple small (6'' – 8'' diameter) animal burrows which were noted along the south-central perimeter of the cap (See attached Photolog and Field Map). TRC recommends the animal burrows be filled in to prevent further damage to the cap, and a certified animal control contractor visit the site to contain/eliminate the pests.

The perimeter fence was observed to contain some damage near the western portion of the cap parameter, as a small tree fell onto the fence. A shelter consisting of a tarp and mattress was noted along the eastern portion of the fence during the inspection, as noted previously. It was observed that the shelter has been abandoned for some time, as there is no evidence of recent activity near the shelter (old trash, ripped tarp, etc.) TRC did not encounter any persons while on Site. No signs of entry to the Site were observed near the shelter. TRC recommends that the small tree and shelter refuse be removed from the Site.

The landfill gas venting system, consisting of three gas vents, was inspected for signs of damage during the site inspection. The inspection was limited to visible portions of the system, and the ground surface over the gas collection lines. The passive landfill gas vents appeared in good condition, properly secured, and functioning.

During site inspection activities, TRC personnel also observed an NYSDEC contractor mowing the landfill grass/vegetation. The contractor completed the moving prior to TRC accessing the capped area of the landfill.

While on site, TRC conducted an inspection of Site monitoring wells. TRC was able to locate 39 of 40 wells. Monitoring well MW-101-3 was not located due to dense woods and unsafe access from Interstate 87. All located wells were noted in fair to good condition. Monitoring well MW-101-4 is in fair condition with bowing in the PVC riser approximately 2 feet below top of casing which does not appear to disrupt sampling. All wells are equipped with functioning locks keyed to 2537. In addition to the 39 wells, TRC located monitoring well MW-101-10S(R) which is not mentioned in the Site Management Plan (SMP) but noted during the prior inspection. TRC also identified wells MW-101-8I(R) and MW-101-8S(R) near the east southern portion of the Site, along the fence in parcel number 523400309.10-88.11. These wells are not in the SMP network but are presumed to RI/FS wells due to their relative age. All of these wells were found in good condition but could not be opened due to TRC's inability to open the locks (not keyed to 2537). TRC recommends the department consider the abandonment of these wells, as they are not within the SMP network, or are able to be accessed/opened by TRC personnel.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Rich DePolo	**PRINT NAME:** Matthew Hoskins, P.G.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: November 15, 2022

Photo 1: Photo of MW-8S and MW-8I, both wells were in good condition, facing southwest.

Photo 2: Photo of MW-5S, MW-5I, and MW-5D, all wells noted to be in good condition, facing north.

Photo 3: Photo of a small animal burrow near MW-13D, facing east.

Photo 4: Photo of a landscaping mowing contractor on the landfill cap, facing north.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: November 15, 2022

Photo 5: Photo of an abandoned shelter with a mattress and refuse along the landfill parameter fence, facing north.

Photo 6: View of the landfill cap and access fence, facing north.

Photo 7: View of the drainage swales near the south-central portion of the landfill, which were dry during the inspection. Facing west.

Photo 8: Photo of a small animal burrow near the south-central portion of the landfill cap area, facing west.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: November 15, 2022

Photo 9: Photo of MW-101-6S and MW-101-6I near the landfill cap parameter, facing north.

Photo 10: Photo of a fallen tree on the parameter fence near the western area of the landfill. Facing north.

Photo 11: Photo of the retention pond area to the southwest of the landfill, note pond is dry and there is stressed vegetation present. Facing south.

Photo 12: Photo of MW-101-8S(R) and MW-101-8I(R), outside the eastern parameter landfill fence. Facing north.

NYSDEC Luzerne Road Site – Site No. 557010
Photograph Log
Date: November 15, 2022

Photo 13: Close up photo of MW-101-8S(R), which was not included in the Site Management Plan. Facing north.

Photo 14: Photo of a small animal burrow, located on the central portion of the landfill cap area. Facing north.

Photo 15: Photo of MW-9S, which was in good condition, facing north.

Photo 16: Photo of MW-2S, MW-2I, and MW-2D, all of which were in good condition. Facing northwest.