Period Review Report
Golden Road Disposal Site
NYSDEC Site Number 828021
Town of Chili, Monroe County, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
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March 2024
Version: FINAL
EA Project No. 1602523.07

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27 March 2024

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LIST OF ACRONYMS AND ABBREVIATIONS

CEMC	Chevron Environmental Management Company
DER	Division of Environmental Remediation
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
ESD	Explanation of significant difference
FER	Final Engineering Report
IC	Institutional control
EC	Engineering control
ESD	Explanation of Significant Difference
No.	Number
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated biphenyl
PDI	Pre-Design Investigation
P.E.	Professional Engineer
P.G.	Professional Geologist
PRR	Period Review Report
RAWP	Remedial Action Work Plan
RD	Remedial design
RI	Remedial investigation
ROD	Record of Decision
SCG	Standards, criteria, and guidance
SI	Site inspection
Site	Golden Road Disposal Site
SMP	Site Management Plan
SVOC	Semivolatile organic compound
VOC	Volatile organic compound

ES. EXECUTIVE SUMMARY

Table ES-1. Site Summary

Category	Summary/Results
Site Name/Site Number	Golden Road Disposal Site (Site Number 828021)
Institutional Controls	• Groundwater and Land Use Restrictions • SMP; Institutional Control/Engineering Control Plan; Monitoring Plan • Environmental Notice
SMP	SMP – October 2012
Certification/Reporting Period	Certification Period: Annually, or as indicated by the NYSDEC. PRR Period: Within 60 days of the first annual inspection and monitoring round following issuance of Certification of Compliance or equivalent document. 18 April 2022 to 18 April 2023
Inspection	**Frequency**
Site Inspection	Annually initially, and then as approved by the NYSDEC in the PRR.
Monitoring	**Frequency**
Groundwater	• Groundwater monitoring was terminated after the 2022 PRR.
Prior PRR Recommendations	• Termination of groundwater monitoring activities as the site. • Well abandonment and discuss path forward for delisting site.
Site Management Activities	• Site Inspection 13 July 2023 • Site Inspection 1 August 2023
Site Inspection Findings	• Monitoring wells GW-03, GW-10, and GW-15 damaged; unable to locate GW-05
Recommendations	• Well abandonment and discuss path forward for delisting site

Notes:
NYSDEC = New York State Department of Environmental Conservation
PRR = Period Review Report
SMP = Site Management Plan

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was tasked by the New York State Department of Environmental Conservation (NYSDEC) under State Superfund Standby Contract Work Assignment Number (No.) D009806-23 to perform site management activities for the Golden Road Disposal Site (Site). This Periodic Review Report (PRR) covers the period 18 April 2022 to 18 April 2023. The purpose of this PRR is to summarize and evaluate the remedy implemented at the Site, relative to the requirements of the Record of Decision (ROD) dated October 2002 (NYSDEC 2002) and the Explanation of Significant Differences (ESD) (NYSDEC 2009). The information provided in this report summarizes the site inspections that were performed by EA at the request of NYSDEC. This report was prepared in accordance with the NYSDEC Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation (NYSDEC 2010). A site summary and applicable remedial program information are summarized in the sections below.

1.1 SITE LOCATION AND DESCRIPTION

The Site is located in a rural residential area on the west side of Golden Road in the Town of Chili, County of Monroe, New York (**Figure 1**), and is identified as Section 132.20 Block 01 and Lot 003 on the Chili Tax Map. The Site is currently an undeveloped former disposal site with no existing structures. It is bounded by a railway system owned by CSX Corporation, Inc. to the north, New York State Route 490 to the south, a residential property to the east, and undeveloped land to the west.

The 7-acre parcel, formerly identified as the "south parcel," is an uneven fill area with mounds of fill (foundry sand) overgrown with vegetation (weeds, brush, and trees). The Site is in a lowland area with poor drainage. Natural surface drainage has been significantly impacted by the construction of Interstate 490 to the south, and the railroad tracks that run through the center of the Site. It falls off steeply on the south, east, and west to a seasonal deciduous forested wetland area. Surface water in the south parcel drains south and west into the deciduous forested wetland area.

Formerly, the Site also included a 12-acre northern parcel located to the north of the current Site boundaries (**Figure 2**). The north parcel is generally flat with building structures. It was bounded by residences to the north and east, railroad tracks to the south, and a wooded area to the west. This parcel was remediated previously and removed from the site description after the ROD (NYSDEC 2002) found that no consequential amounts of hazardous waste were identified on the north parcel. Therefore, the north parcel is not included in this PRR.

The Site is within a mile of an identified Potential Environmental Justice Area (NYSDEC 2020), comprised of a rural minority population percentage of 30.64 (**Figure 3**). The community is located hydraulically upgradient of the Site.

1.2 INVESTIGATION HISTORY

The Site was privately operated by Howard Fitzsimmons, Jr. from 1955 through 1976, during which time period a variety of wastes were disposed of, including household refuse, metal slag,

fly ash, foundry sand, scrap metal, artillery shell casings, drums, used aboveground storage tanks, and junked vehicles. Fill material composed primarily of dark foundry sand, ashes and cinders associated with past disposal activities lies over much of the Site. Where it has been spread on the north parcel, it varies in thickness from 1 foot to 4 feet.

The Site was placed on the NYSDEC Inactive Hazardous Waste Registry on 12 August 1980. During the initial site inspection in 1983 by NYSDEC, over 200 drums in various stages of decay were discovered south of the tracks. Foundry sand was observed on both sides of the tracks as well. In 1984, the Golden Road Disposal Site was listed as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York (Registry). A "Class 2" site is a site where hazardous waste represents a significant threat to human health, or the environment and action is required. In 1985, the NYSDEC conducted a drum and limited soil removal. A total of 562 drums and containers, and 75 cubic yards of contaminated soil and debris were removed from the Site south of the railroad tracks. Environmental testing revealed the presence of chlorinated and non-chlorinated solvents, high total organic carbon, organic solids with low flash points, polychlorinated biphenyls (PCBs), and waste oils.

A remedial investigation (RI) report was conducted in two phases, the first in September 1999 and the second in April 2000. The RI report identified soil, sediment, and groundwater impacted with volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, and asbestos at the Site at concentrations exceeding the applicable environmental standards, criteria, and guidance values (SCGs) (URS Corporation 2000, 2001). Groundwater, drinking water, and surface water SCGs identified for the Site were based on NYSDEC Ambient Water Quality Standards and Part 5 of the New York State Sanitary Code (NYSDEC 1998). For soils, NYSDEC Technical and Administrative Guidance Memorandum 4046 provides soil cleanup guidelines based on the protection of groundwater, background conditions, and health-based exposure scenarios. In addition, for soils, site specific background concentration levels can be considered for certain classes of contaminants, especially metals such as iron, magnesium, and sodium. Guidance values for evaluating contamination in sediments are provided by the 1999 NYSDEC *Technical Guidance for Screening Contaminated Sediments*.

The identified VOCs of concern for the Site were benzene, toluene, ethylbenzene and xylene. Chlorinated solvents previously identified on the south parcel were addressed by the 1985 drum removal. The identified SVOCs of concern were polycyclic aromatic hydrocarbons, including benzo(a)anthracene, benzo(a)pyrene and chrysene. Polycyclic aromatic hydrocarbons are SVOCs normally associated with fossil fuel products. PCBs, also previously identified on the south parcel, were addressed by the 1985 drum removal as well. The identified metals of concern were chromium, nickel, and zinc. These contaminants of concern were found to be impacting soil, sediment, groundwater, and surface water at the Site. Following the RI, potential remedial alternatives were identified, screened, and evaluated in a Feasibility Study report (URS Corporation 2001).

An ROD was issued in 2002 and the selected remedy included hot spot remediation with off-site disposal and site regrading. Due to the different physical characteristics of the north and south parcels, each was addressed separately in the ROD. The remedy for the south parcel included

excavation, off-site disposal of hazardous waste and contaminated soil from two hot spots on the south parcel, and backfill with clean material. As part of the remedy, the southern fill surface was to be regraded to improve drainage and a long-term groundwater monitoring program was established to monitor effectiveness of the remedy (NYSDEC 2002).

In October 2006, Chevron Environmental Management Company (CEMC) executed an Order on Consent with the NYSDEC to implement the selected remedy. A Pre-Design Investigation (PDI) Work Plan was prepared in 2007 and subsequently approved by the NYSDEC to allow for the collection of additional field data to complete the remedial design (RD) (ARCADIS 2007). In January and June 2008, ARCADIS implemented the PDI Work Plan at the Site to better delineate the extent of impacts designated for removal at the Site. The PDI also provided confirmatory sample data for the proposed excavation areas and waste characterization data for the materials that were disposed off-site during subsequent remedial activities.

In January 2009, the NYSDEC issued an Explanation of Significant Difference (ESD) to modify the selected remedy (NYSDEC 2009). Site visits and a wetland delineation were completed after the ROD was issued. The Site was well vegetated with no visible signs of surface erosion, and it was decided that the best way to meet the remedial goal of limiting the migration of fill contaminants to the wetland would be to allow the current vegetation to remain in place, filling in low spots as necessary. The ROD had also included a provision to fill in the intermittent pond, however, the wetland delineation survey considered the pond as part of the wetland area. Given these new findings, the ESD proposed not regrading the Site, not filling in the intermittent pond, and instead removing 6 inches of sediment from the pond followed by restoration. Under the ESD, the Site Management Plan (SMP) included a requirement for an evaluation of the potential for soil vapor intrusion if development of the Site property was proposed.

In June 2010, an RD/Remedial Action Work Plan (RAWP) was prepared for the Site and presented the remedial actions to be implemented to comply with the ROD and ESD remedy, which was subsequently approved by the NYSDEC (ARCADIS 2010). Implementation of the RD/RAWP removal actions by CEMC began in September 2010 and was completed by October 2010, with wetland restoration activities conducted in 2011. The results of the PDI are presented and discussed in Section 3 of the RD/RAWP. A Final Engineering Report (FER) documenting the implementation of the RD/RAWP was submitted to the NYSDEC in October 2012 (ARCADIS 2012a). The NYSDEC filed an Environmental Notice in September 2012.

1.3 REGULATORY REQUIREMENTS AND REMEDIAL GOAL

As specified in the ROD (NYSDEC 2002), the remediation goals for the site are to:

- Eliminate, to the extent practicable, exposure to hazardous waste and asbestos-containing material
- Eliminate, to the extent practicable, exposures to hazardous waste-contaminated soil and sediment

- Prevent, to the extent practicable, the migration of contaminated waste into the adjacent deciduous forested wetland

- Prevent, to the extent practicable, the erosion and migration of fill material into the adjacent deciduous forested wetland

- Prevent, to the extent practicable, off-site migration of contaminated shallow groundwater that exceeds NYSDEC Class C Ambient Water Quality Criteria to the adjacent deciduous forested wetland

- Prevent, to the extent practicable, the use of groundwater from the south parcel without necessary water quality treatment.

1.4 REMEDIAL HISTORY

In 1985, the NYSDEC removed approximately 562 drums and containers and approximately 75 cubic yards of contaminated soil and debris from the Site as part of an emergency drum removal action.

Between 2010 and 2011, CEMC implemented the RD/RAWP to fulfill the requirements of the ROD and ESD. The remedial action activities generally consisted of excavation and off-site disposal of impacted soil and waste materials from five separate areas of the site – the Asbestos-Containing Material Area, the East Bank Area, the SS-2 Area, the Partially Buried Drum Area, and the Intermittent Pond Area. These areas are shown on **Figure 4.** Remedial actions performed as part of the RAWP included:

- Surficial cleanup, excavation and removal of impacted soil and sediment, asbestos-containing materials, and other impacted materials in the Asbestos-Containing Material Area, the East Bank Area, the SS-2 Area, the Partially Buried Drum Area (waste drum identified in the ROD south-southwest of the Intermittent Pond), and the Intermittent Pond Area.

- Air monitoring for airborne particulates and VOCs.

- Post-excavation confirmatory sampling and analysis (for VOCs and PCBs).

- Backfilling and restoration (including revegetation).

- Off-site transportation and disposal of impacted materials.

- Restoration of wetland area.

- Submission of an Environmental Notice restricting land and groundwater use until cleanup criteria are satisfied.

1.5 REMAINING CONTAMINATION

As indicated by the confirmatory analytical results and observations made during implementation of the RD/RAWP, the removal actions completed in 2011 were successful in the removal of waste (asbestos area, East Bank Area, and drums), and of soil/sediment impacted with VOCs (East Bank Area), SVOCs and metals (Intermittent Pond surface sediment), and pentachlorophenol (SS-2 Area) exceeding cleanup objectives.

Based on the removal actions that had been completed to date, and on the findings of previous investigations (discussed in Section 1.2; specifically, those conducted by URS in 1999 and 2000, and by ARCADIS in 2008), the following contamination exceeding SCG was indicated to remain at the Site as of October 2012:

- Subsurface soil impacted with SVOCs and metals west and south of the East Bank Area.
- Sediment, surface soil, and subsurface soil impacted with metals and SVOCs within the adjacent wetland and the Intermittent Pond (below the minimum 6 inches of imported backfill placed during implementation of the RD/RAWP).
- Groundwater impacted with VOCs and SVOCs (at one location within the East Bank Area) and metals (primarily iron, magnesium, manganese, and sodium, with lesser exceedances of lead, mercury, and thallium).

As stated in the ROD, removal of the waste and contaminated soil in the eastern hot spot eliminated the source of contamination to shallow groundwater and it was expected that any residual contaminated shallow groundwater would naturally attenuate to standards. Remaining contamination for soils and sediment above NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives are presented on **Figures 5 through 7.**

1.6 SITE MANAGEMENT AND RECLASS

All components of the site-wide remedy were completed no later than 2011. Following completion of remedial activities, the NYSDEC had approved an FER for the Site, which confirmed that the implementation of the remedy was consistent with the requirements in the ROD and ESD. The Site subsequently entered a monitoring phase. Management of contamination remaining at the Site, including any required monitoring, is controlled pursuant to an SMP (ARCADIS 2012b). Institutional controls (ICs) were required to ensure the protectiveness of the Site, and include:

- Ground water use restriction
- Land use restriction
- SMP
- IC/Engineering Control (EC) Plan
- Monitoring Plan
- Environmental Notice.

The required control, in the form of an Environmental Notice is currently in place and discussed further in Section 2.2.

Following cleanup activities, the NYSDEC determined that a significant threat to public health and the environment no longer existed at the Site, that the Site had been properly remediated and required site management; and that it therefore, qualified for Class 4 status on the Registry of Inactive Hazardous Waste Disposal Sites. The NYSDEC subsequently reclassified the Site from Class 2 (significant threat to public health or environment – action required) to Class 4 (Site properly closed – requires continued management). As of February 2013, the Site required continued monitoring to confirm isolated groundwater contamination on-site is not migrating.

It is important to note that after the responsible party group (CEMC) completed field activities associated with the remedy, issued the FER, and the Site was reclassified to Class 4, the responsible party group pursued a deed restriction as required in the ROD and Order on Consent but received a letter from the attorney for the Executrix of the Owner's Estate, that they cannot execute a deed restriction due to closure of the Estate and lack of a successor to the deceased Executrix. The NYSDEC proceeded with filing an Environmental Notice in September 2012.

A groundwater sampling event was completed on 8 October 2014 by NYSDEC. Monitoring wells GW-02, GW-10, GW-11, and GW-14 were sampled for SVOCs, VOCs, and metals as part of the effort. Given the complicated history and lack of Site owner with no successor to the property, it appeared that no monitoring (sampling or inspection) of the Site had occurred between the October 2014 NYSDEC and November 2021 EA sampling event.

2. POST-REMEDIAL GROUNDWATER MONITORING AND INSTITUTIONAL CONTROL PLAN COMPLIANCE

A Post-Remedial Groundwater Monitoring and IC Plan was outlined in the 2012 SMP (ARCADIS 2012b) in order to address remaining contamination at the Site. The plan was designed to protect human health and the environment and provides: (1) the procedures for the implementation and management of all controls at the Site; (2) a description of the features to be evaluated during each required inspection and periodic review; and (3) any other provisions necessary to identify or establish methods for implementing the groundwater monitoring and ICs required by the Site.

2.1 POST-REMEDIAL GROUNDWATER MONITORING

Following evaluation of the analytical results and NYSDEC and New York State Department of Health approval of the recommendations set forth in the 2022 PRR (EA 2022), groundwater monitoring activities at the Site were terminated.

2.2 INSTITUTIONAL CONTROLS

ICs for the Site include recording an Environmental Notice that requires the following:

- Limiting the use of groundwater at the Site as potable or process water without necessary water quality treatment.

- An evaluation of the potential for soil vapor intrusion if development of the property is proposed in the future.

- A certification by the property owner to verify the above restrictions are being maintained. The property owner will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the controlled property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC, and (2) nothing has occurred that impairs the ability of the controls to protect public health and the environment or that constitute a violation or failure to comply with the SMP. The NYSDEC retains the right to access such controlled property at any time in order to evaluate the continued maintenance of any and all controls and conduct activities, as necessary, to ensure the SMP is implemented properly. This certification will be submitted annually, or an alternate period of time that the NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Compliance with the Environmental Notice and the SMP by the Grantor and the Grantor's successors and assigns is required. ICs identified in the Environmental Notice may not be discontinued without an amendment to or extinguishment of the Environmental Notice.

2.3 SITE INSPECTIONS

In accordance with the SMP, inspections of the Site will be conducted by the site owner or by a representative of the NYSDEC if the SMP is implemented by the NYSDEC under the State

Superfund Program at the frequency specified in the SMP schedule. In 2023, NYSDEC directed EA to perform this task. Inspections were conducted in accordance with procedures outlined in the Monitoring Plan of the SMP and will determine and/or document the following:

- Whether ICs continue to be protective of human health and the environment
- Compliance with requirements of the SMP and the Environmental Notice
- Sampling and analysis of appropriate media during monitoring events, as necessary
- Whether site records are complete and up-to-date
- Changes, or needed changes, to the monitoring system.

Reporting requirements are outlined in the PRR section (Section 4.3) of the SMP (ARCADIS 2012b).

2.4 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION

The certified IC/EC form is provided in **Appendix A** of this PRR. There are no ECs for the Golden Road Disposal Site. For the entirety of the certification/reporting period, no certification forms (to verify that ICs are being maintained) have been received from the property owner because no parties are laying claim to the property. Thus, no forms from the property owner are included as part of this PRR. With the exception of the property owner certification, EA certifies that the ICs are still in place for this reporting period.

3. MONITORING AND SAMPLING PLAN COMPLIANCE

Groundwater monitoring was ceased subsequent to the 2021 sampling event, only site inspections were completed for this PRR monitoring period.

3.1 2023 SITE INSPECTION

The annual site inspection for 2023 at Golden Road was delayed due to attempted coordination with the current property owner (Monroe County). A site inspection was performed on 13 July 2023 to locate and document monitoring well condition, inspect for signs of site development or condition changes and monitor for signs of potential excavations performed. Site conditions were found to be consistent with previous site inspections, no signs of redevelopment, condition changes at site, or recent excavations were observed. Only GW-02 was located due to overgrown vegetation at this time.

On 1 August 2023 EA returned to the Site and performed a second inspection to locate the remaining wells. EA successfully located GW-02, GW-03, GW-04, GW-10, GW-11, GW-14, and GW-15. During both inspections, the Site appeared overgrown with vegetation, with dense wooded areas and undergrowth throughout much of the area. No signs of recent on-site construction or development were observed. Monitoring wells GW-10, GW-15, and GW-03 all have damaged casings. Consistent with the 2021 site inspection, monitoring well GW-05 could not be located.

A map of the site layout and monitoring wells is presented on **Figure 2**. Daily field reports, field logs, and Site Inspection Reports are provided in **Appendix B, C, and D,** respectively.

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4. GREEN REMEDIATION AND CLIMATE CHANGE RESILIENCE

Consistent with NYSDEC DER-31 Green Remediation Policy, this section provides a brief summary and qualitative assessment of the overall environmental impacts or environmental footprint of the Site for the current reporting period. In accordance with the NYSDEC's Executive Order No. 24, consideration has been given to reducing the consumption of energy and materials; and thereby, reducing the production of greenhouse gases, in the operation and maintenance of the Site. Implementation of NYSDEC DER-31 and Executive Order No. 24 have not compromised the selected remedy's protectiveness of public health and the environment, nor has it hindered achievement of the remedial goals established for the Site.

As each discrete step of any site operation and maintenance activity consumes resources and energy, consideration has been given to reducing/eliminating those activities, which may not be critical to the protectiveness of the selected remedy.

A critical infrastructure vulnerability assessment was not completed during this certifying period. Such an assessment could generally be utilized to evaluate the potential consequences climate changes may have on a Site, as well as any ongoing site management activities.

4.1 GREEN REMEDIATION ASSESSMENT

In accordance with the NYSDEC's DER-31 Green Remediation policy, the following section provides a qualitative assessment of the overall environmental impacts, or environmental footprint associated with the remedy.

4.1.1 Electric Usage

Implementation of the selected remedy does not directly use electricity as part of site management.

4.1.2 Fossil Fuel Usage

Implementation of the selected remedy does not directly use fossil fuels as part of site management; however, fossil fuels are indirectly used during the completion of maintenance and monitoring activities associated with the groundwater monitoring well network.

Indirect fossil fuel use results from completion of the following site-related activities:

- Transportation to and from the Site for monitoring, sampling, and well rehabilitation
- Off-site transportation and shipment of samples collected for laboratory analysis
- Disposal of waste generated at the Site.

4.1.3 Water Usage

Implementation of the selected remedy does not directly require the use of water at this Site. However, a *de minimis* quantity of water is used during sampling events for equipment decontamination.

4.1.4 Air Emissions

Implementation of the selected remedy does not directly emit contaminants to the air, nor impact air quality other than through the combustion of fossil fuels in vehicles, as described above.

4.1.5 Consumption of Materials and Generation of Waste

Monitoring, maintenance, and reporting activities associated with groundwater sampling events result in material consumption and the generation of waste. A summary of the current material consumption and waste generation activities for the site are summarized below:

- Personal protective equipment associated with groundwater sampling, such as nitrile gloves, etc.
- Consumables associated with groundwater sampling such as polyethylene tubing, paper towels, trash bags, etc.
- Packaging material and ice used to pack and preserve samples to be submitted for laboratory analysis
- Paper and office supplies associated with site logs, monitoring logs, and report preparation.
- Repair and replacement of equipment associated with the monitoring well network.

4.2 CLIMATE CHANGE VULNERABILITY ASSESSMENT

Increases in both the severity and frequency of storms and weather events, an increase in sea-level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuations, resulting from global climate change and instability, have the potential to significantly impact the performance, effectiveness, and protectiveness of a given site remedy. The intent of this vulnerability assessment is to provide information to allow the site remedy to better prepare for the impacts of the increasing frequency and intensity of severe storms, weather events, and associated flooding brought on by global climate changes and instabilities, in order to ultimately enhance the remedy's resilience to such events.

This section briefly summarizes the vulnerability of the site and/or the remedy to severe storms, weather events and associated flooding.

This assessment included consideration of the following:

- ***Flood Plain***—The current monitoring well network lies immediately adjacent to low-lying wetlands. Given the site topography, it is reasonable to assume that severe rain events may cause temporary flooding of the Site. However, the overall performance and effectiveness of the monitoring wells would not be impacted.

- ***Site Drainage and Storm Water Management***—The Site drains by overland flow northward to the railroad drainage ditch, and southward to the adjacent wetland. Like the overall site topography, the gradients of the drainage swales and drainage ditches on-site are generally quite low. However, the monitoring wells are located outside of the wetland in areas of higher elevation and all regrading efforts completed during the remedial action mitigated the environmental threat due to migration of fill contaminants to the wetlands.

- ***Erosion***—There is no evidence of erosion at the Site, though there are berms and banks that may be susceptible to erosion during periods of severe rain events. Any erosion at these areas should not impact the monitoring well network.

- ***High Wind***—The monitoring wells at the Site are stick-ups and may be susceptible to damage from falling trees resulting from periods of high winds.

4.3 CONSIDERATIONS FOR OPTIMIZATION OF PHYSICAL SYSTEMS

Environmental and energy conservation measures and other methods to reduce energy consumption, resource usage, waste generation, and water usage have been considered and are described below. During the certifying period, no groundwater sampling events were conducted. Pending the approval of recommendations in the following Section, monitoring wells could be abandoned in the near future.

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5. CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Based on a review of results from the July and August 2023 inspection events, the following conclusions can made:

- No evidence of unauthorized site activity or land use was found.
- Monitoring wells GW-10 and GW-15 are damaged; GW-05 is missing. Based on the data available to EA, none of these wells were formerly impacted wells.
- ICs continue to be protective of human health and the environment.

5.2 RECOMMENDATIONS

As defined in the SMP (ARCADIS 2012b) and in accordance with DER-10 (NYSDEC 2010) remedial process closure requirements, post-remedial groundwater monitoring activities will continue until residual groundwater concentrations are found to be consistently below applicable SCG or have become asymptotic at an acceptable level over an extended period, or as otherwise approved by the NYSDEC. Groundwater monitoring activities were ceased upon acceptance of the 2022 PRR by NYSDEC and New York State Department of Health. Based on the observed condition of the Site from the July and August 2023 site visits and inspections, the following actions are recommended for the Golden Road Disposal Site:

- An evaluation of remaining contamination in surface soil and surface sediment should be performed. Surface soil and surface sediment samples may be collected as part of the evaluation to confirm current conditions. Based on the results of this evaluation, the site may potentially be delisted or reclassified from Class 4 to Class C (Completed).
- Abandonment of site monitoring wells (including those that are damaged).

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6. FUTURE SITE ACTIVITIES

Based on the recommendations in Section 5, the following site management activities will be completed during the next PRR reporting period:

- Perform remaining contamination evaluation in surface soil and surface sediment including potential sample collection.

- Discuss path forward for Site with NYSDEC. Determine if abandonment of site monitoring wells (including those that are damaged) is appropriate.

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Figures

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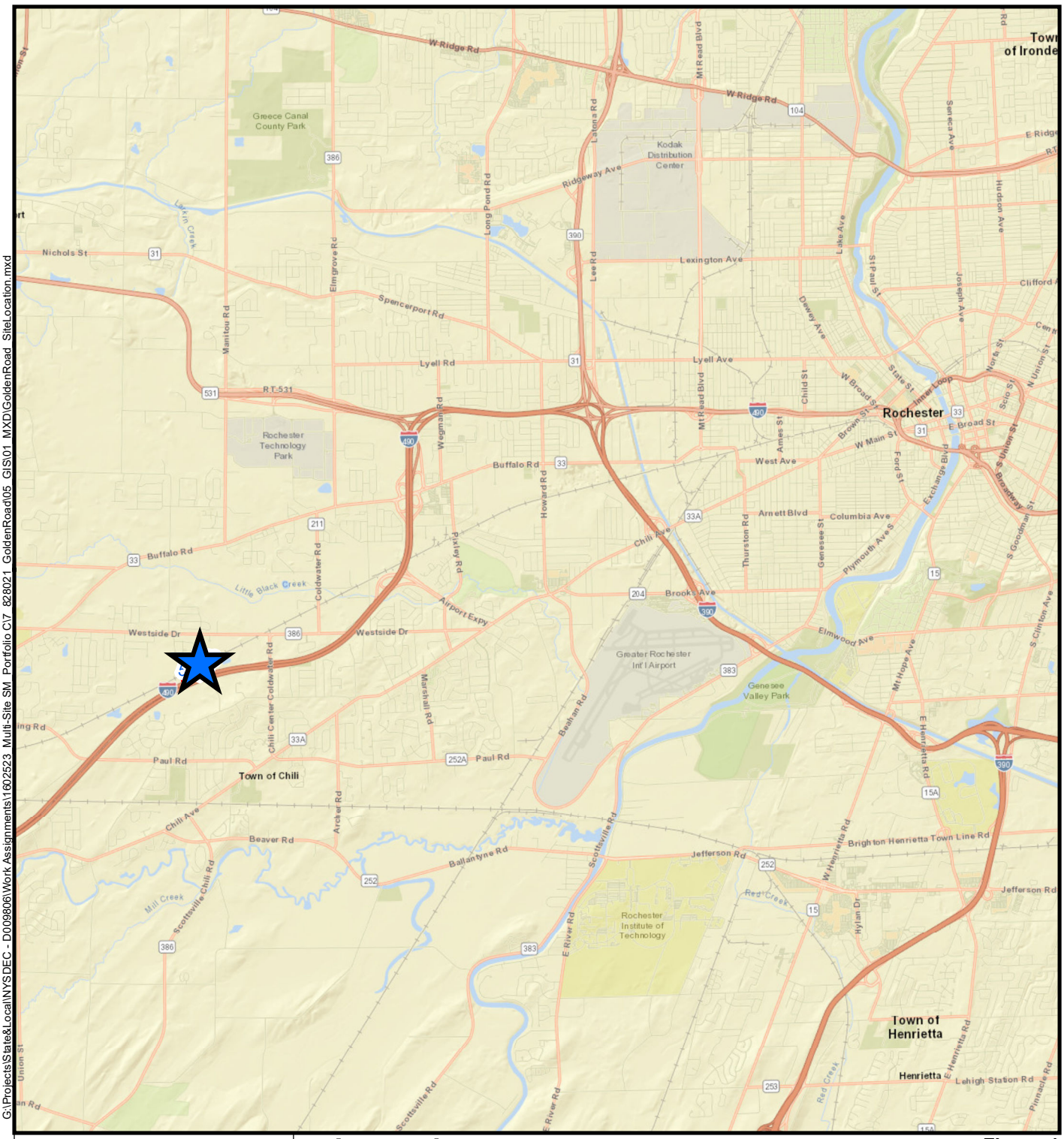

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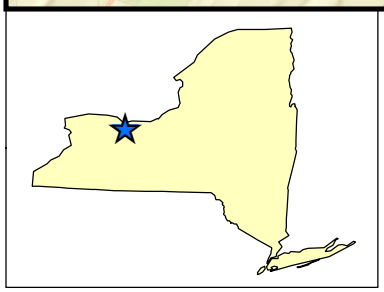

Legend

★ Site Location

Figure 1
SITE LOCATION
Golden Road Disposal Site (828021)
Rochester, New York

0 2.5
Miles

N

Map Date: 1/24/2022
Projection: State Plane West

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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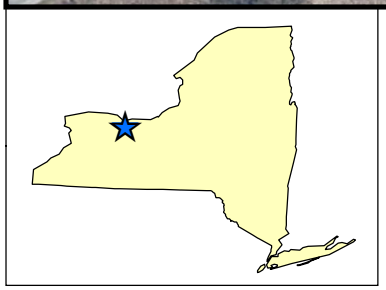

0 250 500
Feet

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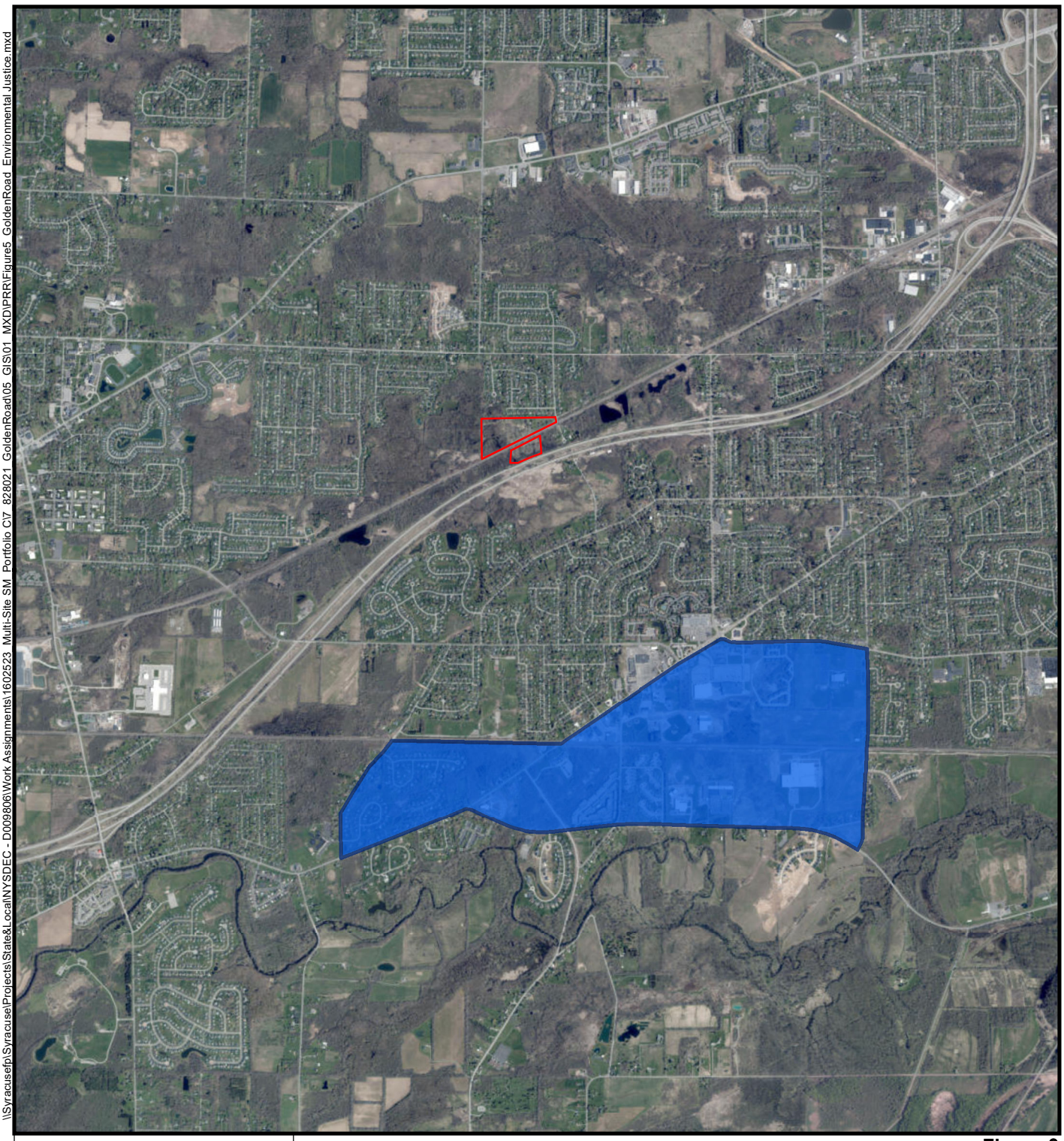
Legend

- Monitoring Wells (Sampled)
- Monitoring Wells (Missing/Destroyed)
- Former Northern Site Parcel
- Current Site Boundary

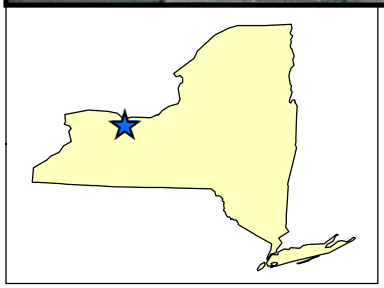
Figure 2
SITE LAYOUT
Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 3/7/2022
Projection: State Plane West

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation



\\Syracusefp\Syracuse\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602523 Multi-Site SM Portfolio C\7 828021 GoldenRoad\05 GIS\01 MXD\PRR\Figure5 GoldenRoad Environmental Justice.mxd



Legend

Site Boundary

Potential Environmental Justice Area

0 0.3 0.6

Miles

N

Figure 3
Environmental Justice Vicinity Map
Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 3/25/2022
Projection: State Plane West

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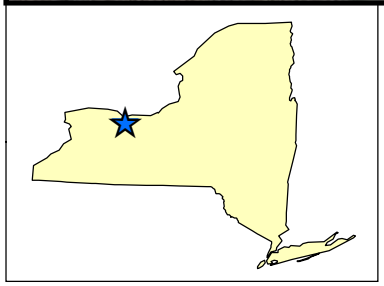

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Feet

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Legend

- Monitoring Wells (Sampled)
- Monitoring Wells (Missing/Destroyed)
- Wetland Boundary
- Former Northern Site Parcel
- Current Site Boundary
- Limits of Removal

Figure 4
REMEDIAL ACTION AREAS
Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 3/7/2022
Projection: State Plane West

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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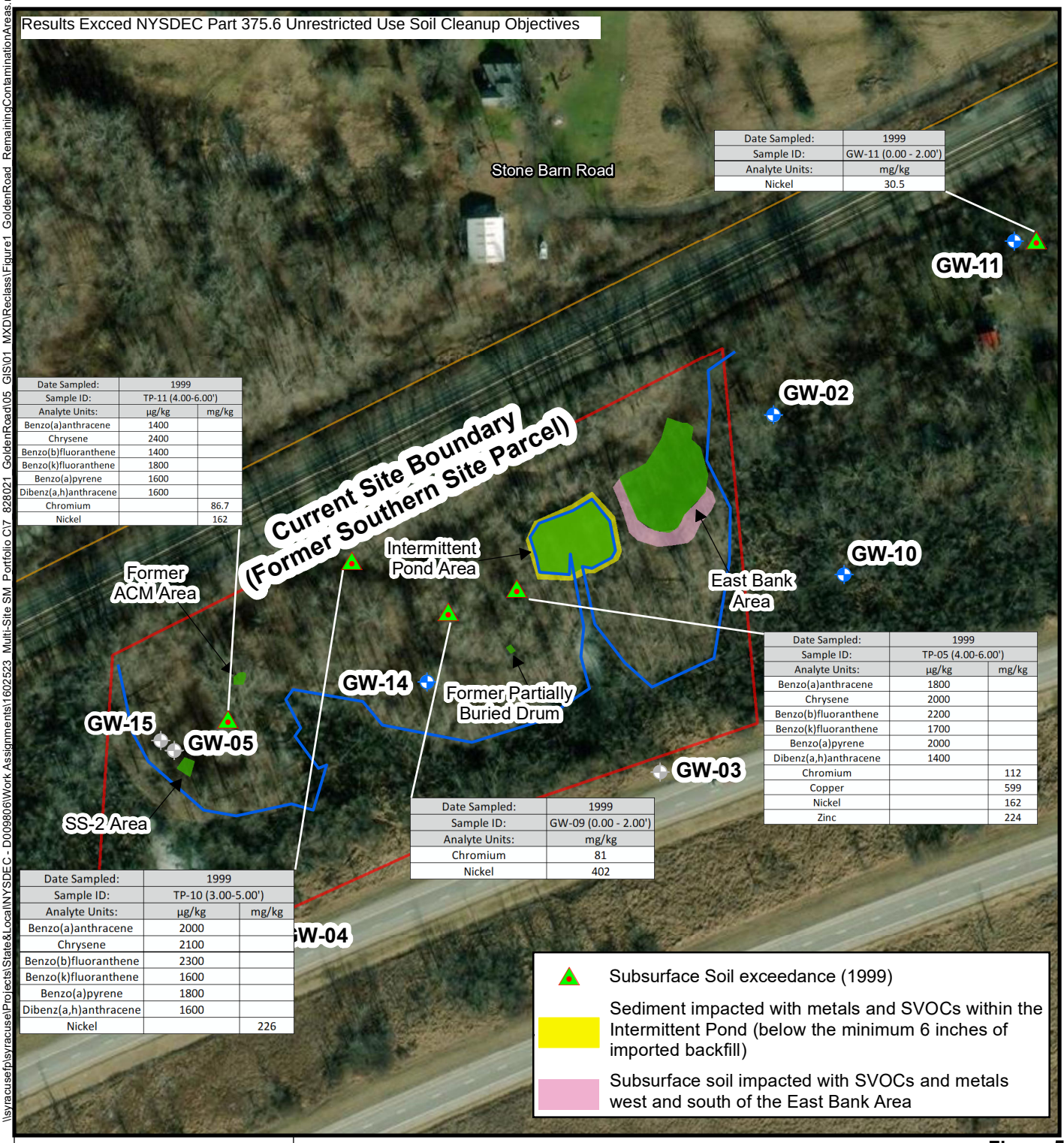


Date Sampled:	1999
Sample ID:	GW-11 (0.00 - 2.00')
Analyte Units:	mg/kg
Nickel	30.5

Date Sampled:	1999	
Sample ID:	TP-11 (4.00-6.00')	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	1400	
Chrysene	2400	
Benzo(b)fluoranthene	1400	
Benzo(k)fluoranthene	1800	
Benzo(a)pyrene	1600	
Dibenz(a,h)anthracene	1600	
Chromium		86.7
Nickel		162

Date Sampled:	1999	
Sample ID:	TP-05 (4.00-6.00')	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	1800	
Chrysene	2000	
Benzo(b)fluoranthene	2200	
Benzo(k)fluoranthene	1700	
Benzo(a)pyrene	2000	
Dibenz(a,h)anthracene	1400	
Chromium		112
Copper		599
Nickel		162
Zinc		224

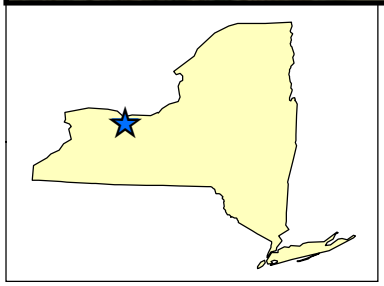
Date Sampled:	1999
Sample ID:	GW-09 (0.00 - 2.00')
Analyte Units:	mg/kg
Chromium	81
Nickel	402

Date Sampled:	1999	
Sample ID:	TP-10 (3.00-5.00')	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	2000	
Chrysene	2100	
Benzo(b)fluoranthene	2300	
Benzo(k)fluoranthene	1600	
Benzo(a)pyrene	1800	
Dibenz(a,h)anthracene	1600	
Nickel		226

Subsurface Soil exceedance (1999)

Sediment impacted with metals and SVOCs within the Intermittent Pond (below the minimum 6 inches of imported backfill)

Subsurface soil impacted with SVOCs and metals west and south of the East Bank Area



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Feet

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Legend

- Monitoring Wells (Sampled)
- Monitoring Wells (Missing/Destroyed)
- Wetland Boundary
- Former Northern Site Parcel
- Current Site Boundary
- Limits of Removal

Figure 5
SUBSURFACE SOIL WITH REMAINING CONTAMINATION

Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 8/29/2023
Projection: State Plane West

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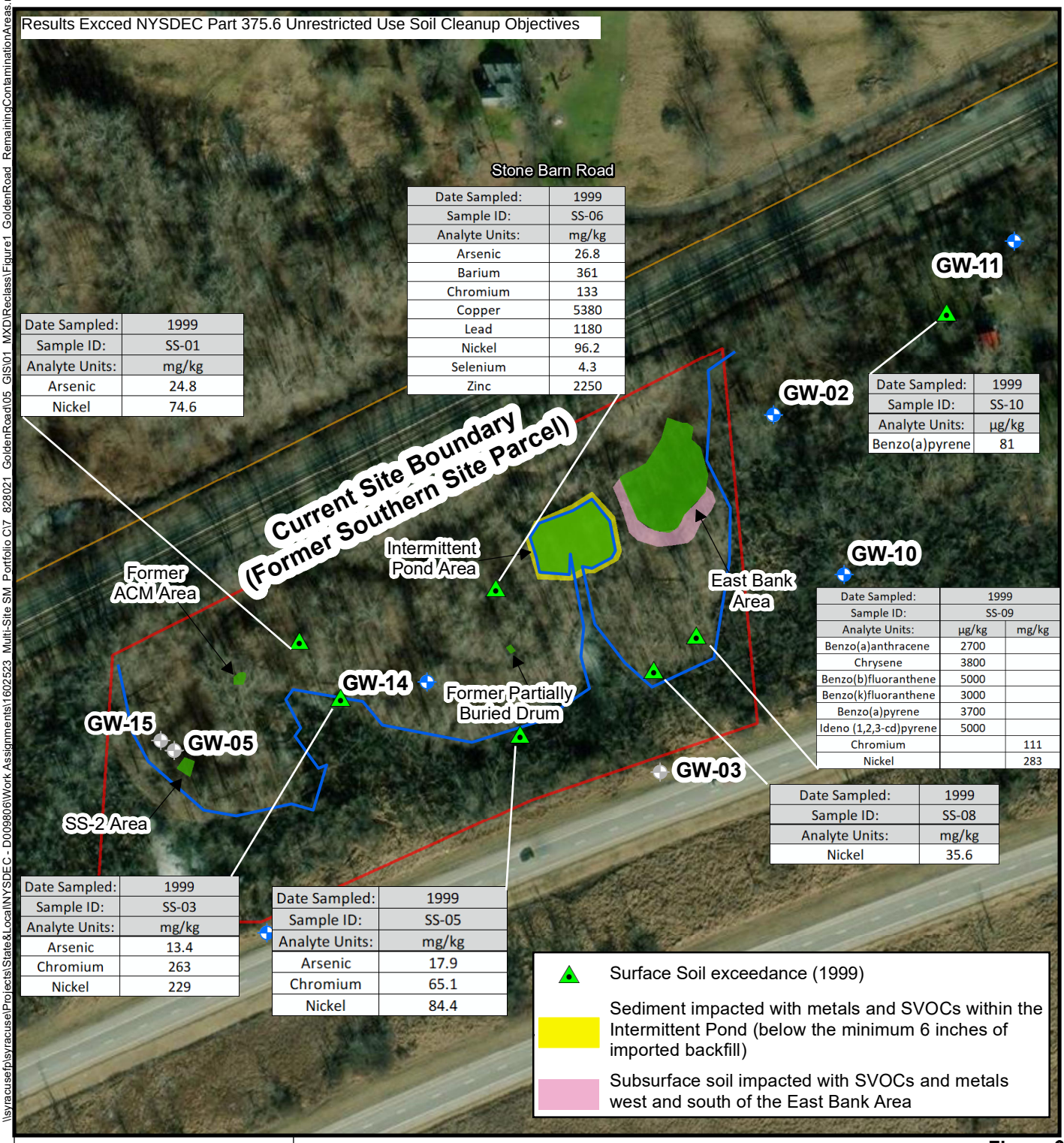

Date Sampled:	1999
Sample ID:	SS-01
Analyte Units:	mg/kg
Arsenic	24.8
Nickel	74.6

Date Sampled:	1999
Sample ID:	SS-06
Analyte Units:	mg/kg
Arsenic	26.8
Barium	361
Chromium	133
Copper	5380
Lead	1180
Nickel	96.2
Selenium	4.3
Zinc	2250

Date Sampled:	1999
Sample ID:	SS-10
Analyte Units:	µg/kg
Benzo(a)pyrene	81

Date Sampled:	1999	
Sample ID:	SS-09	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	2700	
Chrysene	3800	
Benzo(b)fluoranthene	5000	
Benzo(k)fluoranthene	3000	
Benzo(a)pyrene	3700	
Ideno (1,2,3-cd)pyrene	5000	
Chromium		111
Nickel		283

Date Sampled:	1999
Sample ID:	SS-08
Analyte Units:	mg/kg
Nickel	35.6

Date Sampled:	1999
Sample ID:	SS-03
Analyte Units:	mg/kg
Arsenic	13.4
Chromium	263
Nickel	229

Date Sampled:	1999
Sample ID:	SS-05
Analyte Units:	mg/kg
Arsenic	17.9
Chromium	65.1
Nickel	84.4

0 250
Feet

N

Legend

- Monitoring Wells (Sampled)
- Monitoring Wells (Missing/Destroyed)
- Wetland Boundary
- Former Northern Site Parcel
- Current Site Boundary
- Limits of Removal

Figure 6
SURFACE SOIL WITH REMAINING CONTAMINATION

Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 8/29/2023
Projection: State Plane West

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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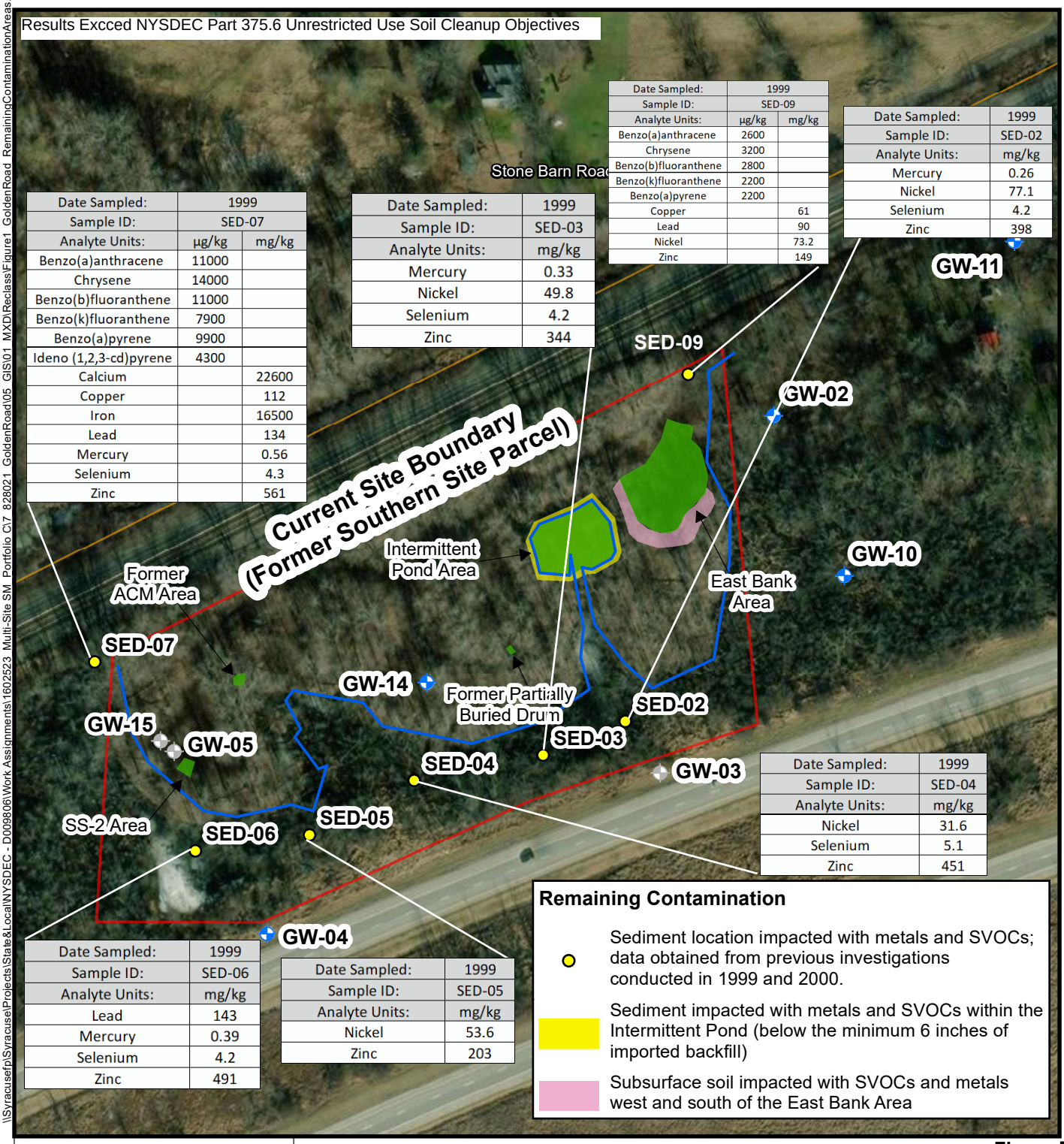


Date Sampled:	1999	
Sample ID:	SED-07	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	11000	
Chrysene	14000	
Benzo(b)fluoranthene	11000	
Benzo(k)fluoranthene	7900	
Benzo(a)pyrene	9900	
Ideno (1,2,3-cd)pyrene	4300	
Calcium		22600
Copper		112
Iron		16500
Lead		134
Mercury		0.56
Selenium		4.3
Zinc		561

Date Sampled:	1999
Sample ID:	SED-03
Analyte Units:	mg/kg
Mercury	0.33
Nickel	49.8
Selenium	4.2
Zinc	344

Date Sampled:	1999	
Sample ID:	SED-09	
Analyte Units:	µg/kg	mg/kg
Benzo(a)anthracene	2600	
Chrysene	3200	
Benzo(b)fluoranthene	2800	
Benzo(k)fluoranthene	2200	
Benzo(a)pyrene	2200	
Copper		61
Lead		90
Nickel		73.2
Zinc		149

Date Sampled:	1999
Sample ID:	SED-02
Analyte Units:	mg/kg
Mercury	0.26
Nickel	77.1
Selenium	4.2
Zinc	398

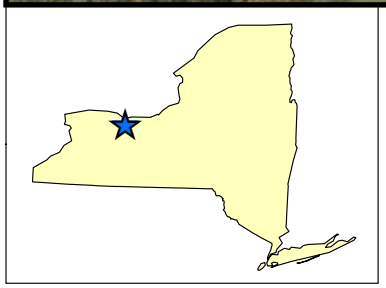
Date Sampled:	1999
Sample ID:	SED-04
Analyte Units:	mg/kg
Nickel	31.6
Selenium	5.1
Zinc	451

Date Sampled:	1999
Sample ID:	SED-06
Analyte Units:	mg/kg
Lead	143
Mercury	0.39
Selenium	4.2
Zinc	491

Date Sampled:	1999
Sample ID:	SED-05
Analyte Units:	mg/kg
Nickel	53.6
Zinc	203

Remaining Contamination

- Sediment location impacted with metals and SVOCs; data obtained from previous investigations conducted in 1999 and 2000.
- Sediment impacted with metals and SVOCs within the Intermittent Pond (below the minimum 6 inches of imported backfill)
- Subsurface soil impacted with SVOCs and metals west and south of the East Bank Area



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Feet

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Legend

- Monitoring Wells (Sampled)
- Monitoring Wells (Missing/Destroyed)
- Wetland Boundary
- Former Northern Site Parcel
- Current Site Boundary
- Limits of Removal

Figure 7
SEDIMENT WITH REMAINING CONTAMINATION

Golden Road Disposal Site (828021)
Rochester, New York

Map Date: 8/29/2023
Projection: State Plane West

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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Appendix A

Institutional Control/Engineering Control Certification Form

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation, Bureau of Technical Support
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

Standby Consultant/Contractor Reminder Notice: 3/10/2023
Site Management Periodic Review

Hilary Williams
Scientist Iii
EA Science and Technology
269 West Jefferson St
Syracuse, NY 13202
hwilliams@eaest.com

Site Name: Golden Road Disposal Site
Site No.: 828021
Site Address: Golden Road
Chili, NY 14624

Dear Hilary Williams:

This letter and attached certification have been mailed to you because you are the listed standby consultant/contractor for a state-funded State Superfund site that is currently in the site management (SM) phase of remediation, This letter is intended to serve as a reminder that sites in active Site Management undergo a periodic review to ensure that the selected remedy continues to be protective and that a report is due. This review and resulting report, referred to as the Periodic Review Report (PRR), will document the implementation and compliance with site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (http://www.dec.ny.gov/docs/remediation_hudson_pdf/der10.pdf) provides guidance regarding the information that should be included in the PRR. A generic outline is attached as Enclosure 3 "Periodic Review Report (PRR) General Outline" .

Please provide a PRR and sign and date the attached certification (Enclosure 1 "Engineering Controls - Standby Consultant/Contractor") by May 18, 2023. The PRR shall encompass the entire reporting period as indicated on the enclosed certification. If there has been a change in standby consultants/contractors during the reporting period, the certification you provide may rely on reports and documentation issued by previous consultants/contractors. In this instance, the DEC understands that data and material included in previous consultants/contractors' reports and documentation was not created by you, but that it has been reviewed and accepted as valid by you, to the best of your knowledge.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for the site was completed, SM may be governed by multiple individual documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan; etc.) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan").

Additionally, the technical requirements and objectives for SM are stated in the decision document (e.g., Record of Decision).

When you submit the PRR, include the enclosed form (Enclosure 1), signed, certifying that all SM requirements are being met. The Engineering Controls (ECs) portion of the form must be signed by a . If you cannot certify that all SM requirements are being met, a Corrective Measures Work Plan will be developed in conjunction with the DEC. This work plan shall include scheduling of activities as well as detailed cost information in a proposed budget. The work plan will be subject to final review and must be approved by the Department before any work included in the Work Plan shall commence. Instructions for completing the enclosed form are included as Enclosure 2 "Certification Instructions."

The certification form and PRR shall be submitted in electronic format unless a hard copy is specified by the DEC project manager. All supporting documentation (e.g., data, reports, etc.) should be submitted in electronic format only. These documents and electronic submissions should be sent to Evelyn Hussey, Project Manager.

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURE
625 Broadway
Albany, NY 12233-7017

Phone number: 518-402-6787. E-mail: evelyn.hussey@dec.ny.gov

Enclosures

ec: Evelyn Hussey, Project Manager / Sarah Saucier, Section Chief

Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form

Site Details **Box 1**

Site No. 828021

Site Name Golden Road Disposal Site

Site Address: Golden Road Zip Code: 14624
City/Town: Chili
County: Monroe
Site Acreage: 7.0

Reporting Period: April 18, 2022 to April 18, 2023

	YES	NO
1. Is the information above correct?	☐	☐
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?	☐	☐
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☐
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?	☐	☐
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?	☐	☐

Box 2

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

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. 828021 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
132.20-1-3.2	Estate of Howard Fitzsimmons, Jr.	Ground Water Use Restriction Landuse Restriction Site Management Plan Monitoring Plan O&M Plan IC/EC Plan

The Property is subject to an Environmental Notice requiring:

Prior written approval where contamination remains at the Property subject to the provisions of the Sit Management Plan (SMP) for disturbance or excavation which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils.

No disturbance, removal, or interferance with the installation, use, operations, and maintenance of engineering controls required without approval.

Use as undeveloped land or for industrial purposes.

No use of groundwater without treatment rendering it safe for drinking water or industrial purposes.

No use of the Property in a manner inconsistent with the environmental notice.

132.200-01-002 FRONTIER PIPE LINE CO INC

Ground Water Use Restriction

12/12/12 E. Hampston: The origin of this record is not known but is believed related to the import of information into UIS. Westside Drive is not a part of the defined site. Other than the existing Environmental Notice filed in September 2012, no other property restrictions (deed or easement) are known to exist for the limits of the State Superfund site.

132.200-01-003 FITZ SIMONS HOWARD J JR

Ground Water Use Restriction

12/12/12 E. Hampston: The origin of this record is not known but is believed related to the import of information into UIS. This property was delisted via a boundary modification prior to ROD and is not a part of the defined site. Other than the existing Environmental Notice filed in September 2012, no othe property restrictions (deed or easement) are known to exist for the limits of the State Superfund site.

132.200-01-004 HYDE GORDON

Ground Water Use Restriction

12/12/12 E. Hampston: The origin of this record is not known but is believed related to the import of information into UIS. The property borders the defined site but is not a part of the site. Other than the existing Environmental Notice filed in September 2012, no other property restrictions (deed or easement) are known to exist for the limits of the State Superfund site.

Box 4

Description of Engineering Controls

None Required

Not Applicable/No EC's

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
☐	☐

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
☐	☐

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 _____ at _____
print name

_____

_____,
(print business address)

am certifying as a .

Signature of

Stamp
(Required for PE)

Date

Enclosure 2

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the "YES/NO" questions in the Verification of Site Details Section. The Engineering Standby Contractor may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (Boxes 3, 4, and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Engineering Standby Contractor should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered. The DEC PM should be contacted to begin development of a plan of proposed corrective measures and an associated schedule for completing the corrective measures, including detailed cost information in a proposed budget. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule and budget, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a revised Periodic Review Report (with a signed IC/EC Certification) must be submitted which covers both the period for which a certification initially could not be provided and the ensuing time period until the correction measure was completed. This revised PRR should be submitted within 45 days after completion of the corrective measures to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6**):**

Where the site has Institutional and Engineering Controls, the certification statement in Box 6 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

If you certified "YES" for each Institutional and Engineering Control, please complete and sign the IC/EC Certification page.

IV. Certification Form Modifications

Changes to the Certification Form shall be discussed with the Project Manager prior to submission. Any approved changes must be made on the Certification Form provided by Site Control and supporting documentation or reasoning shall be attached.

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities,

frequencies, recordkeeping, etc.

B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.
D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
    1. whether all requirements of each plan were met during the reporting period
    2. any requirements not met
    3. proposed plans and a schedule for coming into full compliance.
B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
C. Future PRR Submittals
    1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
    2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

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Appendix B

Daily Field Reports

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NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Site Location: Chili, New York

Contract No.

DEC Insp. –N/A

DEC PM – Evelyn Hussey

Contractor Supt. – N/A

Engineer PM – Mike Miller

Engineer Insp. – Alex Stoogenke

Weather Conditions

General Description	--	AM	Raining, cloudy	PM
Temperature	--	AM	75 F	PM
Wind	--	AM	2-5 mph SW	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

Health & Safety Comments

Poison Ivy is very prevalent, obstructions in the tall grasses and brush can be hard to see.

Summary of Work Performed	Arrived at site:	**1200**	Departed Site:	**1400**

(1200) A. Stoogenke (EA) on site. (1205) EA started the search for GW-14, which couldn't be located due to overgrown brush. (1245) EA located GW-02 and continues to look for GW-10 and GW-11. (1330) EA determined that to locate GW-10, GW-11, and GW-14 a Trimble with well coordinates will be required due to the visual and physical obstruction by brush. (1335) EA mobilized to GW-04 on the Interstate 490 side of the site. (1340) EA arrived at approximate location of GW-04, which could not be located. (1400) EA off site.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA

Personnel and Equipment

Individual	Company	Trade	Total Hours
Alex Stoogenke	EA	Scientist	2.0

Equipment Description	Contractor/Vendor	Quantity	Used
2021 Ford F-150	Enterprise	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
None.		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)	
	
Looking West down the access road	Approximate location of GW-14, which could not be found

	
GW-02	Approximate location of GW-10, which couldn't be found

	
Looking East down access road with approximate location of GW-11 to right side of photo in brush, which couldn't be located.	Approximate location of GW-04- searched brush but couldn't locate

Comments	
Site Inspector(s): Alex Stoogenke	**Date: 07/13/2023**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☐ N/A ☒

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments:		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A☒
Comments:			

* BART – Best Available Retrofit Technology

NYSDEC
Division of Environmental Remediation

NEW YORK STATE | Department of Environmental Conservation

Site Location: Chili, New York

Contract No.

DEC Insp. –N/A

DEC PM – Evelyn Hussey

Contractor Supt. – N/A

Engineer PM – Mike Miller

Engineer Insp. – Jeremy Fontaine, Alex Stoogenke

Weather Conditions

General Description	Sunny	AM	Sunny	PM
Temperature	65 F	AM	75 F	PM
Wind	--	AM	1-2 MPH NE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No	NA

Health & Safety Comments

Poison Ivy is very prevalent, obstructions in the tall grasses and brush can be hard to see.

Summary of Work Performed	Arrived at site:	**0900**	Departed Site:	**1330**

(0900) J. Fontaine and A. Stoogenke (EA) on site. (0910) EA proceeds with locating the monitoring wells. (0950) EA locates GW-11. (1015) EA locates GW-02. (1110) EA locates GW-10 and the steel casing is damaged and able to be removed from around the PVC. (1140) EA locates GW-14. (1210) EA locates GW-15 which has a damaged casing and has been bent horizontal to ground. EA is unable to locate GW-05 which should have been adjacent to GW-15. (1300) EA locates GW-04. (1320) EA locates GW-03 which has a broken casing and the PVC is exposed. (1330) EA off site.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA
Were there any vehicles which were not tarped?	* Yes	No	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA

Personnel and Equipment

Individual	Company	Trade	Total Hours
Jeremy Fontaine	EA	Geologist	4.5
Alex Stoogenke	EA	Scientist	4.5

Equipment Description	Contractor/Vendor	Quantity	Used
2019 Ford F-150	EA	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
None.		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing
None.	

Project Schedule Comments

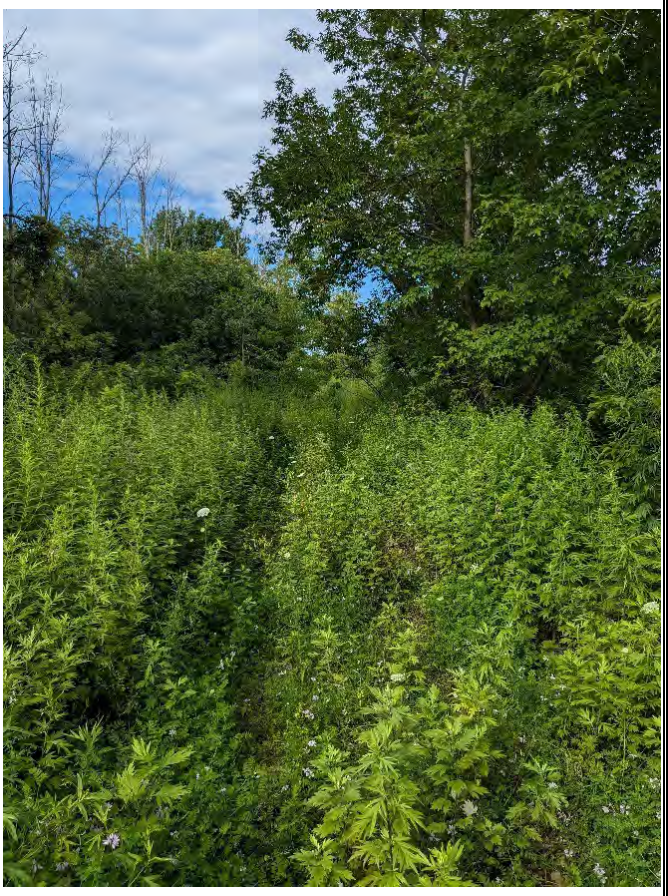
Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Access road (looking WSW from Golden Rd).



Overgrowth along access road (facing WSW).

	
GW-11	Approximate location of GW-10, which couldn't be found

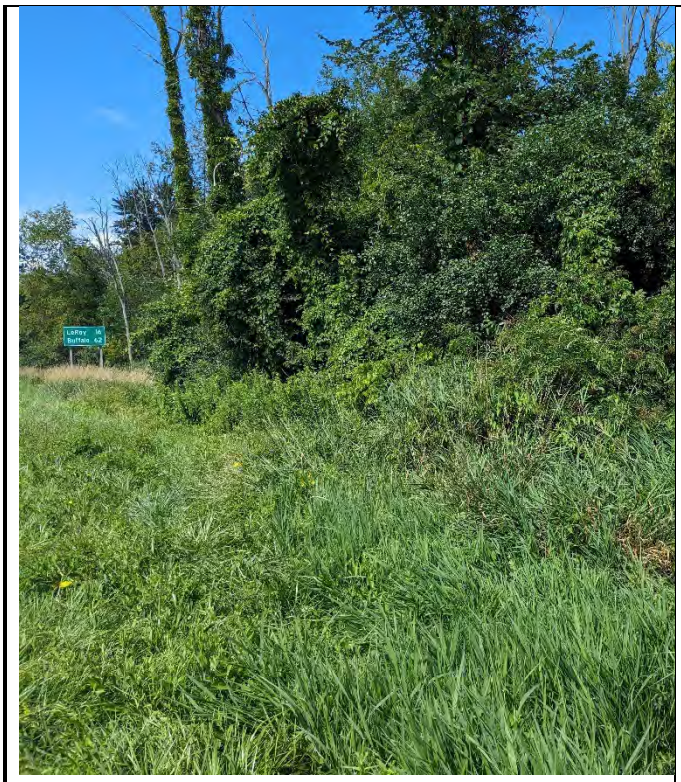
GW-10

GW-14

GW-15	General overgrowth on west end of site.

GW-04

GW-03



Reference photo: Location of GW-04, relative to HWY sign.

Location of GW-03 from the road.

Comments

Lots of trash/ waste on site. The site is extremely overgrown with vegetations and there are several obstructions such as fallen trees and metal scraps in the brush. The access road is usable on foot, but a vehicle would have a hard time. GW-10, GW-15 and GW-03 are damaged.

Site Inspector(s): Jeremy Fontaine, Alex Stoogenke	**Date: 08/01/2023**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐ No ☐ N/A ☒

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments:		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments:			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A☒
Comments:			

* BART – Best Available Retrofit Technology

Appendix C

Field Log

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6 Golden Road (828021) 07/13/2023

WX: Raining, cloudy, 75°F, 2-5 mph SW

(1200) A. Stoegenke (EA) on site.

(1205) EA starts search for wells

(1245) EA locates GW-02 → continue search for GW-10, 11, 14.

(1330) No luck, may want to bring trimble w/ well coordinates to locate. Brush obstructs view.

(1335) EA mob to I-490 side of site

(1340) EA arrives at approx. location of GW-04 → could not locate.

(1400) EA off site.

Alex Stoegenke
07/13/23

Golden Road (828021) 08/01/2023

WX: Sunny, 65°F: AM
Sunny, 75°F: PM

(0900) J. Fontaine + A. Stoogenke (EA) on site.

(0910) EA starts locating monitoring wells.

(0950) EA locates GW-11.

(1015) EA locates GW-02.

(1110) EA locates GW-10. Steel casing is damaged → can be removed from around PVC.

(1140) EA locates GW-14.

(1210) EA locates GW-15 → damaged casing, bent horizontal to ground. EA unable to locate GW-05 which should have been adjacent to GW-15.

(1300) EA locates GW-04 (no casing)

(1320) EA locates GW-03 (broken casing)

(1330) EA off site.

Alex Stoogenke
08/01/2023

Appendix D

Site Inspection Report

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GOLDEN ROAD DISPOSAL SITE
CHILI , NEW YORK
SITE INSPECTION FORM

Date: 7/13/23
Weather: Raining, 75°F, wind 3-5mph SW cloudy

Inspectors: A. Shoogenhe

Inspection Items	Acceptable Yes	Acceptable No	Comments/Conditions
1 General Area Conditions			
Appearance	✓		
Litter	✓		
2 Access Road Conditions			
Surface	✓		
Accessibility		✓	High grasses + weeds make finding wells very difficult
3 Vegetation Conditions			
Grass Growth		✓	Overgrown
Bare Spots	✓		
Erosion	✓		
Settlement	✓		
Ponding Water	✓		
Protruding Objects		✓	Lots of fallen trees in grass
4 Groundwater Monitoring Well Conditions			
Well Casings	✓		Only found GW-02, other overgrown
Well Locks	✓		"
5 Wetlands			
General Conditions	✓		
Vegatation	✓		
Water Levels	✓		
6 Others (list)			
* Wells are overgrown + very hard to locate → may need to return w/ trimble - couldnt locate GW-11, GW-10, GW-14 or GW-4			

GOLDEN ROAD DISPOSAL SITE
CHILI , NEW YORK
SITE INSPECTION FORM

Date: 08/01/2023
Weather: AM: 65°F, Sunny
PM: 85°F. Sunny

Inspectors: J. Fontaine
A. Stoogenke

Inspection Items	Acceptable Yes	Acceptable No	Comments/Conditions
1 General Area Conditions			
Appearance	✓		very overgrown
Litter	✓	✓	Garbage everywhere
2 Access Road Conditions			
Surface	✓		
Accessibility		X	overgrown
3 Vegetation Conditions			
Grass Growth	✓	✓	Overgrown
Bare Spots	✓		None
Erosion	✓		
Settlement	✓		
Ponding Water	✓		
Protruding Objects	✓		Hazardous trees in tall grass
4 Groundwater Monitoring Well Conditions			
Well Casings	✓	X	GW-10 + GW-15 need repairs
Well Locks	✓		
5 Wetlands			
General Conditions	✓		
Vegatation	✓		
Water Levels	✓		
6 Others (list)			
GW-11 = Found, GW-2 = Found, GW-10 = Found - casing is removable			
GW-14 = Found, GW-15 = Found - damaged (on side), GW-04 = Found, no casing			
GW-03 = Found, damaged casing)			