

Second Five-Year Site Management Report

Former J.T. Baker Site

Penn Yan, New York

NYSDEC Site ID #8-62-001

March 2024

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March 2024

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Certification in Accordance with DER-10

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I, Krista Hankins Mastrocola, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Five-Year Site Management Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Krista Hankins Mastrocola

Krista Hankins Mastrocola, NY PE 092948

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1 Introduction

ARCADIS of New York, Inc. (ARCADIS), on behalf of The Procter & Gamble Company (representing the interests of the former Mallinckrodt Baker, Inc.) and Friends of the Outlet, Inc. (Friends of the Outlet), has prepared this Second Five-Year Site Management Report (Five-Year SMR) for the Former J.T. Baker Site located in Penn Yan, New York (New York State Department of Environmental Conservation [NYSDEC] site ID #8-62-001 hereafter referred to as the Site). This Second Five-Year SMR has been prepared to furnish the information described in the July 24, 2014 Site Management Plan (SMP) and in accordance with the requirements in NYSDEC DER-10 / Technical Guidance for Site Investigation and Remediation, issued in May 2010 (DER-10).

The Deed Restriction and Environmental Easement requires Operation, Maintenance and Monitoring (OM&M) for the Site Institutional Controls (ICs) and Engineering Controls (ECs). This Second Five-Year SMR only applies to the portion of the site included within the Environmental Easement (EE) as defined in the ALTA/ASCM Survey (ALTA Survey). The Site is currently owned by Friends of the Outlet.

2 Purpose

The purpose of this Second Five-Year SMR is to provide:

- Identification of all ECs/ICs.
- An evaluation of the EC/IC Plan and the OM&M Plan for adequacy in meeting remedial goals.
- Assessment of the continued effectiveness of all ICs and ECs for the Site.
- Results of the required annual site inspections.
- All deliverables generated during the reporting period, as specified in Section 2 EC/IC Plan and Section 4 OM&M of the SMP, dated July 24, 2014.

3 Remedial Action Objectives

Based on the intended use of the parcel, which is public recreation, the Restricted-Residential soil cleanup objective was approved by the NYSDEC as the restoration goal for the work completed under Order on Consent and Administrative Settlement No. B8-0483-95-10A, dated May 25, 2007. This restoration goal for soils at the Site is consistent with the environmental land use restriction for the future use of the parcel. Accordingly, the following remedial action objectives (RAOs) were established for the Site (ARCADIS 2008):

Public Health Protection

- Prevent human ingestion/direct contact with soils impacted with chromium.
- Prevent inhalation of dust containing chromium.

Environmental Protection

- Prevent biota ingestion/direct contact with soils impacted with chromium.
- Prevent erosion/stormwater runoff of soils impacted with chromium.

Cover systems were installed in the Closed West Disposal Area and the Former Structure 6 Excavation Area to address the public health protection and environmental protection RAOs referenced above. Accordingly, the Site is currently in a state where there are no exposure routes.

4 Engineering Control Components

This section provides a summary of engineering control systems installed at the Site that are being maintained as a part of the long-term operation, maintenance, and monitoring for the Site. EC components include cover systems, vegetation, and stormwater conveyance structures. The cover systems, vegetation, and stormwater conveyance structures are briefly described below and are described in detail in the Engineering Report Interim Remedial Measures (ARCADIS 1999) and the Construction Completion Report (CCR) (ARCADIS 2009).

4.1 Cover Systems

Two cover systems remain at the Site and are intended to prevent public exposure to soils impacted with chromium. The cover system in the Closed West Disposal Area was placed during the summer of 1999 and consists of a common borrow material foundation layer, barrier soils and vegetative soil. Clay was used for both the common borrow material and barrier soil components and varied from one to three feet thick; a 6-inch-thick layer of topsoil was placed over the clay layer.

The cover system at the Former Structure 6 Excavation Area was placed during the spring of 2009. The cover system consists of a 1.5- to 3.5-foot-thick layer of imported virgin fill material received from the City Hill Borrow Pit located in Penn Yan, New York, and 0.5-feet of topsoil. Orange snow fence was placed at the base of the Former Structure 6 Excavation Area limits to serve as a demarcation barrier above the remaining potentially chromium-impacted soil. The excavation was then backfilled with the cover system described above.

4.2 Vegetation

Vegetation stabilizes the ground surface to prevent erosion and sedimentation and thereby maintains the cover systems. Vegetation in the Closed West Disposal Area and Former Structure 6 Excavation Area is maintained by the current Site owner. These areas are mowed a minimum of once per year to ensure that woody plants do not become established.

4.3 Stormwater Conveyance

The final grade in the Closed West Disposal Area was configured to promote sheet-flow runoff and to divert runoff to the perimeter ditches, which ultimately discharge to the Cayuga Lake Outlet (Outlet). Run-on diversion ditches along the northern perimeter of the Closed West Disposal Area direct stormwater run-on from the up-slope areas around the Site. A run-off diversion ditch along the southern perimeter of the Site collects runoff from the closed

area and run on from the northern perimeter ditches. Two 18-inch diameter by 160-feet long corrugated metal pipe culverts divert the runoff from the diversion ditches around the Closed West Disposal Area to the Outlet. The culverts are equipped with riprap at the inlet, and riprap, splash pads, and flap gates (to prevent backflow) at the Outlet. The culverts cross beneath the access road and the hiking trail and above an 18-inch diameter culvert that services the Crooked Lake Canal and Outlet.

5 Institutional Control Components

ICs are actions, such as legal controls, which help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. There are three primary components to the ICs incorporated at the Site as follows:

- Excavation/Soil Management Plan,
- Deed Restriction/EE, and
- Contingency Plan.

5.1 Excavation and Soil Management Plan

If future intrusive work is required that will disturb soils or materials beneath the existing cover systems, the work will be performed in compliance with the Excavation and Soil Management Plan detailed in the SMP, dated July 24, 2014. Intrusive work (if any) must also be conducted in accordance with procedures defined in a to be developed site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP).

5.2 Deed Restriction and Environmental Easement Activities

A Deed Restriction/EE acts as the mechanism for imposing and enforcing the ICs. The key elements of the Deed Restriction/EE are the provisions which limit the use of the property, and which require the long-term inspection and maintenance of the ECs. The current and expected future use of the site is for public recreation. The Deed Restriction/EE will be in effect until the Site no longer requires ECs and ICs. The Site will be used for passive recreation (e.g., hiking, biking, and canoeing) provided that the long-term ECs and ICs included in this SMP are employed.

5.3 Contingency Plan

A Contingency Plan, which is provided within the SMP, describes notifications and procedures to follow for managing activities to the satisfaction of the NYSDEC in the event of an emergency at the Site. Emergencies may include discovery of new impacted areas, injury to personnel, fire or explosion, environmental release, or serious weather conditions.

6 Effectiveness of Institutional and Engineering Controls

Results of the required annual site inspections, including deliverables generated during the reporting period, as specified in Section 2 EC/IC Plan and Section 5 OM&M Plan, are included in Appendix A, and summarized below.

6.1 2019 Site Inspection

A site-wide inspection was completed on March 27, 2019 including an inspection of the Former Structure 6 Excavation Area and Closed West Disposal Area. No changes were noted since the May 17, 2018 inspection. The ECs were found to be in place and effective and nothing was observed that would impair the effectiveness of the ECs. Excavations, housing, vegetable gardening and/or groundwater use were not observed in either the Former Structure 6 Excavation Area or Closed West Disposal Area.

6.2 2020 Site Inspection

A site-wide inspection was completed on June 29, 2020 including an inspection of the Former Structure 6 Excavation Area and Closed West Disposal Area. No changes were noted since the March 27, 2019 inspection. The ECs were found to be in place and effective and nothing was observed that would impair the effectiveness of the ECs. Excavations, housing, vegetable gardening and/or groundwater use were not observed in either the Former Structure 6 Excavation Area or Closed West Disposal Area.

6.3 2021 Site Inspection

A site-wide inspection was completed on May 24, 2021 including an inspection of the Former Structure 6 Excavation Area and Closed West Disposal Area. The ECs were found to be in place and effective and nothing was observed that would impair the effectiveness of the ECs. Excavations, housing, vegetable gardening and/or groundwater use were not observed. Observations identified that approximately 6-12 inches of additional topsoil and vegetation were placed over the neighboring area and on the Former Structure 6 Excavation Area with the vegetation in great condition. No changes were noted since the June 29, 2020 inspection within the Closed West Disposal Area.

6.4 2022 Site Inspection

A site-wide inspection was completed on May 17, 2022 including an inspection of the Former Structure 6 Excavation Area and Closed West Disposal Area. Only change noted since the May 24, 2021 inspection was associated with 2-3" of subsidence at a location adjacent to the abandoned monitoring wells on the southeast side of West Disposal Area. Topsoil and grass seed was placed in the area of subsidence on May 24, 2022 to modify (repair) the engineered system. The ECs were found to be in place and effective and nothing was observed that would impair the effectiveness of the ECs. Excavations, housing, vegetable gardening and/or groundwater use were not observed in either the Former Structure 6 Excavation Area or Closed West Disposal Area.

6.5 2023 Site Inspection

A site-wide inspection was completed on May 22, 2023 including an inspection of the Former Structure 6 Excavation Area and Closed West Disposal Area. No changes were noted since the May 17, 2022 inspection. The ECs were found to be in place and effective and nothing was observed that would impair the effectiveness of the ECs. Excavations, housing, vegetable gardening and/or groundwater use were not observed in either the Former Structure 6 Excavation Area or Closed West Disposal Area.

7 Certification of Engineering and Institutional Controls

Inspections of the ECs/ICs have occurred on an annual basis for the past 5 years, and the signed certification contained in this Second Five Year SMR certifies that:

- On-site ECs/ICs are unchanged from conditions described in the Engineering Report Interim Remedial Measures (Arcadis 1999) and CCR (ARCADIS 2009).
- The on-site ECs/ICs remain in-place and effective.
- The systems are performing as designed.
- Nothing has occurred that would impair the ability of the controls to protect public health and the environment.
- Nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site by the NYSDEC to evaluate continued maintenance of such controls.
- Site usage is compliant with the Deed Restriction/EE.

8 References

- ARCADIS Geraghty & Miller, Inc. 1999. Engineering Report Interim Remedial Measures, Former J.T. Baker Site, Penn Yan, New York. 1999.
- Arcadis. 2009. Construction Completion Report, Former J.T. Baker Site, Penn Yan, New York, October 20, 2009.
- Arcadis. 2014. Site Management Plan, Former J.T. Baker Site, Penn Yan, New York, July 24, 2014.
- NYSDEC. 1999. Order on Consent and Administrative Settlement Index #B8-0483-95-10, Site #8-62-001. March 16, 1999.
- NYSDEC. 2007. Order on Consent and Administrative Settlement Index #B8-0483-95-10A, Site #8-62-001. May 25, 2007.
- NYSDEC. 2010. DER-10 Technical Guidance for Site Investigation and Remediation. May 2010

Appendix A

Site Inspection Logs 2019-2023

2019 Site Inspection Logs, Site Plan and Photos

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: March 27, 2019Weather: Sunny, 45°F**Site Inspection Log - Engineering Systems**

ITEM	EXAMPLES OF TYPES OF PROBLEMS	TRIGGER LEVEL (if applicable)	STATUS*	OBSERVATIONS	DATE AND NATURE OF REPAIRS/ MAINTENANCE
<i>Former Structure 6 Excavation Area</i> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion	Greater than 10% of area devoid of vegetation (600 square feet).	Acceptable	Dormant but healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area.	Acceptable	No settlement or subsidence observed; no ponding observed	Not Applicable
<i>West Disposal Area</i> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion; growth of seedlings, trees and shrubs.	Greater than 10% of area devoid of vegetation (7,500 square feet); greater than 10% coverage by seedlings.	Acceptable	Dormant but healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (18,750 square feet).	Acceptable	No settlement or subsidence observed; no ponding observed	Not Applicable
<i>Run-off Conveyance Channels</i>	Obstruction to flow; bank erosion; deterioration; excessive siltation; inadequate protective vegetation; loose riprap or missing riprap.	Any clogging or obstructions to flow; greater than 10% of area (600 square feet) devoid of vegetation.	Acceptable	Vegetation is dormant, but good; little to no standing water, no visible obstructions	Not Applicable
<i>Culverts</i>	Corrosion; deterioration; siltation; blockage; clogging.	Any clogs or deterioration that affects structural integrity or flow.	Acceptable	No corrosion, deterioration or blockages observed	Not Applicable
<i>Flap Gates</i>	Leakage; deterioration; malfunction.	Any leakage; any corrosion or deterioration that affects structural integrity; inoperability.	Acceptable	No sediment observed at flap gates, and gates operate freely.	Not Applicable
<i>Site Wide</i> <i>Abandoned Groundwater Monitoring Wells</i>	Land subsidence	Land subsidence.	Acceptable	No subsidence observed	Not Applicable

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: March 27, 2019
 Weather: Sunny, 45°F

Site Inspection Log - Engineering/Institutional Controls

Have there been any changes since the last inspection? If yes, note the changes.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>		X
West Disposal Area		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
Are the following in place and effective? If no, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>	X	
West Disposal Area		
<i>Cover System</i>	X	
<i>Run-off Conveyance Channels</i>	X	
<i>Culverts</i>	X	
<i>Flap Gates</i>	X	
Has anything occurred to the following engineering controls to impair their ability? If yes, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>		X
West Disposal Area		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
Is there housing, vegetable gardening and/or groundwater use in the former Structure 6 excavation area or the West Disposal Area?		
No		
Has any excavation activity occurred in the former Structure 6 excavation area and/or the West Disposal Area?		
No		



Photo #1: Flap gates, looking northwest.



Photo #2: Looking west along Keuka Lake Outlet floodwaters, over flap gates.



Photo #3: Former Structure 6 Excavation Area, looking west.



Photo #4: West Disposal Area, looking northeast.



Photo #5: West Disposal Area, run-off conveyance channel culvert east of drainage culverts leading to Outlet.



Photo #6: West Disposal Area, run-off conveyance channel culverts leading to Outlet, looking southwest.

Site: Former JT Baker Site

Site Location: Penn Yan, New York



Photo #7: West Disposal Area, looking to the west at run-off conveyance channels on south side.



Photo #8: Looking west at run-off conveyance channel on west side of West Disposal Area.

2020 Site Inspection Logs, Site Plan and Photos

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: June 29, 2020
 Weather: Sunny, 70°F

Site Inspection Log - Engineering Systems

ITEM	EXAMPLES OF TYPES OF PROBLEMS	TRIGGER LEVEL (if applicable)	STATUS*	OBSERVATIONS	DATE AND NATURE OF REPAIRS/ MAINTENANCE
<i>Former Structure 6 Excavation Area</i> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion	Greater than 10% of area devoid of vegetation (600 square feet).	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (1,500 square feet).	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>West Disposal Area</i> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion; growth of seedlings, trees and shrubs.	Greater than 10% of area devoid of vegetation (7,500 square feet) ; greater than 10% coverage by seedlings.	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (18,750 square feet).	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>Run-off Conveyance Channels</i>	Obstruction to flow; bank erosion; deterioration; excessive siltation; inadequate protective vegetation; loose riprap or missing riprap.	Any clogging or obstructions to flow; greater than 10% of area (600 square feet) devoid of vegetation.	Acceptable	Healthy vegetative cover; No standing water; No visible obstructions	Not Applicable
<i>Culverts</i>	Corrosion; deterioration; siltation; blockage; clogging.	Any clogs or deterioration that affects structural integrity or flow.	Acceptable	No corrosion, deterioration or blockages observed	Not Applicable
<i>Flap Gates</i>	Leakage; deterioration; malfunction.	Any leakage; any corrosion or deterioration that affects structural integrity; inoperability.	Acceptable	No sediment observed at flap gates, and gates operate freely.	Not Applicable
<i>Site Wide</i> <i>Abandoned Groundwater Monitoring Wells</i>	Land subsidence	Land subsidence.	Acceptable	No subsidence observed	Not Applicable

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: June 29, 2020
 Weather: Sunny, 70°F

Site Inspection Log - Engineering/Institutional Controls

Have there been any changes since the last inspection? If yes, note the changes.		
	Yes	No
Former Structure 6 Excavation Area		
<i>Cover System</i>		X Cover is in good condition, vegetation is healthy
West Disposal Area		
<i>Cover System</i>		X Cover is in good condition, vegetation is healthy
<i>Run-off Conveyance Channels</i>		X Healthy vegetation, no standing water
<i>Culverts</i>		X Culverts are in good condition
<i>Flap Gates</i>		X No sediment observed at flap gates, and gates operate freely.
Are the following in place and effective? If no, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>	X	
West Disposal Area		
<i>Cover System</i>	X	
<i>Run-off Conveyance Channels</i>	X	
<i>Culverts</i>	X	
<i>Flap Gates</i>	X	
Has anything occurred to the following engineering controls to impair their ability? If yes, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>		X
West Disposal Area		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
Is there housing, vegetable gardening and/or groundwater use in the former Structure 6 excavation area or the West Disposal Area?		
No		
Has any excavation activity occurred in the former Structure 6 excavation area and/or the West Disposal Area?		
No		



Photo #1: Outlet of West Disposal Area Drainage, looking north at flap gates.



Photo #2: Drainage culvert pipes from West Disposal Area to Outlet, looking south.

Site: Former JT Baker Site
 Site Location: Penn Yan, New York



Photo #3: West Disposal Area, run-off conveyance channel culvert, looking northwest



Photo #4: West Disposal Area, looking northeast.



Photo #5: West end of West Disposal Area.



Photo #6: West Disposal Area, looking northwest.



Photo #7: Former Structure 6 Area, looking west



Photo #8: Vegetative Cover within Former Structure 6 Area.

2021 Site Inspection Logs, Site Plan and Photos

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 24, 2021
 Weather: Sunny, 65°F

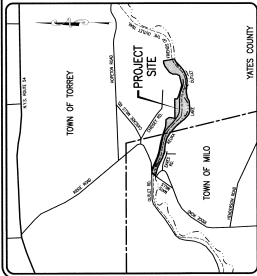
Site Inspection Log - Engineering Systems

ITEM	EXAMPLES OF TYPES OF PROBLEMS	TRIGGER LEVEL (if applicable)	STATUS*	OBSERVATIONS	DATE AND NATURE OF REPAIRS/ MAINTENANCE
<u>Former Structure 6 Excavation Area</u> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion	Greater than 10% of area devoid of vegetation (600 square feet).	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Clearing of trees and brush has been completed on neighboring property (to west). Friends of the Outlet confirmed that no soil was removed or disturbed (from either the neighboring property or the Former Structure 6 Excavation Area).
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area.	Acceptable	No settlement or subsidence observed; No ponding observed	Approximately 6-12 inches of imported topsoil was placed over both the neighboring area and the Former Structure 6 Excavation Area. Both areas were seeded, and all vegetation is in great condition.
<u>West Disposal Area</u> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion; growth of seedlings, trees and shrubs.	Greater than 10% of area devoid of vegetation (7,500 square feet) ; greater than 10% coverage by seedlings.	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (18,750 square feet).	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>Run-off Conveyance Channels</i>	Obstruction to flow; bank erosion; deterioration; excessive siltation; inadequate protective vegetation; loose riprap or missing riprap.	Any clogging or obstructions to flow; greater than 10% of area (600 square feet) devoid of vegetation.	Acceptable	Healthy vegetative cover; No standing water; No visible obstructions	Not Applicable
<i>Culverts</i>	Corrosion; deterioration; siltation; blockage; clogging.	Any clogs or deterioration that affects structural integrity or flow.	Acceptable	No corrosion, deterioration or blockages observed	Not Applicable
<i>Flap Gates</i>	Leakage; deterioration; malfunction.	Any leakage; any corrosion or deterioration that affects structural integrity; inoperability.	Acceptable	Minimal sediment observed at flap gates, and gates operate freely.	Not Applicable
<u>Site Wide</u> <i>Abandoned Groundwater Monitoring Wells</i>	Land subsidence	Land subsidence.	Acceptable	No subsidence observed	Not Applicable

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 24, 2021
 Weather: Sunny, 65°F

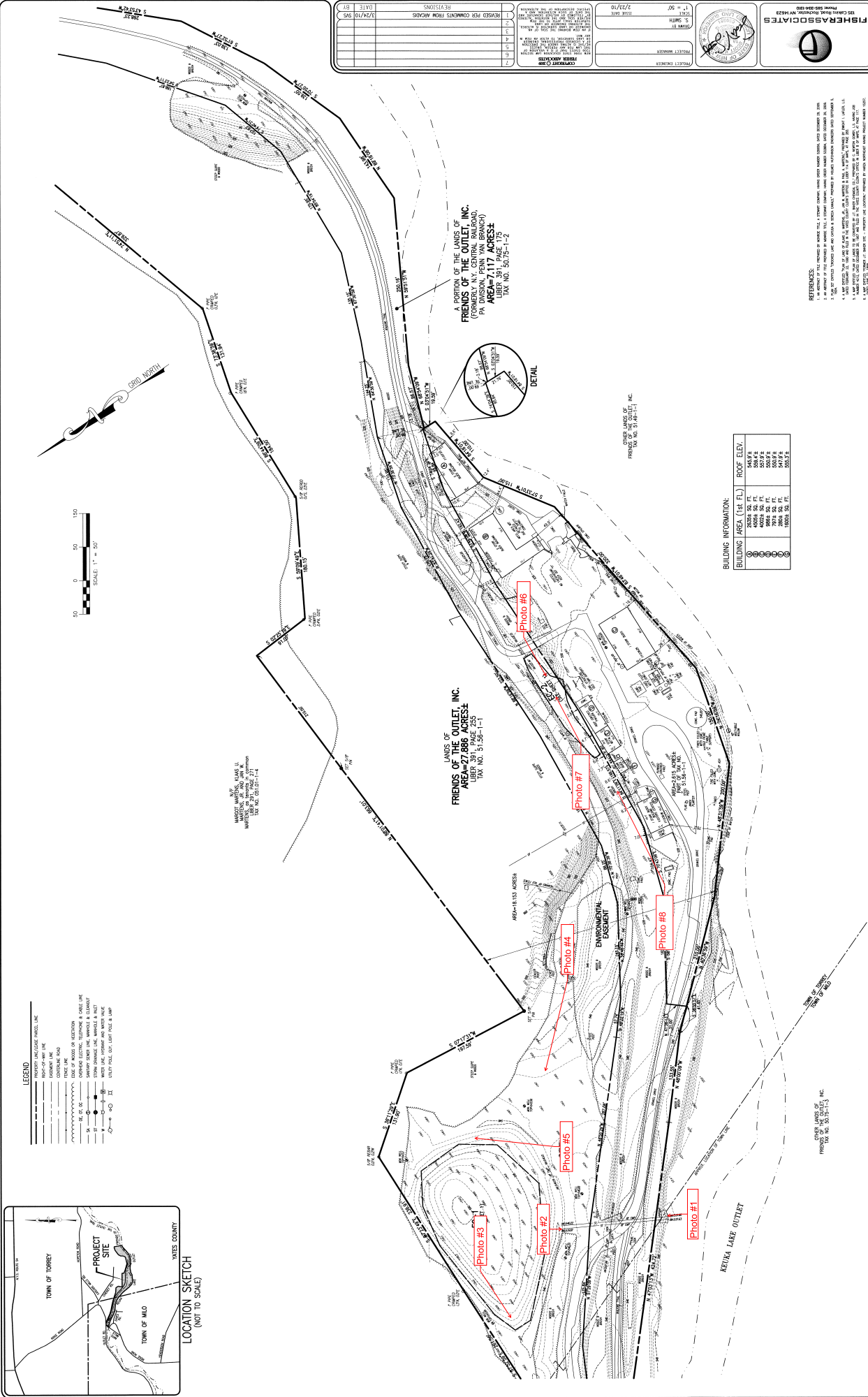
Site Inspection Log - Engineering/Institutional Controls

Have there been any changes since the last inspection? If yes, note the changes.		
	Yes	No
Former Structure 6 Excavation Area		
<i>Cover System</i>		X
		Cover is in great condition, vegetation is healthy. Friends of the Outlet confirmed that additional topsoil was placed over area and seeded.
West Disposal Area		
<i>Cover System</i>		X
		Cover is in good condition, vegetation is healthy
<i>Run-off Conveyance Channels</i>		X
		Healthy vegetation, no standing water
<i>Culverts</i>		X
		Culverts are in good condition
<i>Flap Gates</i>		X
		Minimal sediment observed at flap gates, and gates operate freely.
Are the following in place and effective? If no, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>	X	
West Disposal Area		
<i>Cover System</i>	X	
<i>Run-off Conveyance Channels</i>	X	
<i>Culverts</i>	X	
<i>Flap Gates</i>	X	
Has anything occurred to the following engineering controls to impair their ability? If yes, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>		X
West Disposal Area		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
Is there housing, vegetable gardening and/or groundwater use in the former Structure 6 excavation area or the West Disposal Area?		
No		
Has any excavation activity occurred in the former Structure 6 excavation area and/or the West Disposal Area?		
No evidence of excavation, but there may have been grading work. Approximately 6 to 12 inches of topsoil was added to the area and it was seeded.		



LOCATION SKETCH
(NOT TO SCALE)

- LEGEND**
- PROJECT PROPERTY
 - EXISTING PROPERTY
 - EXISTING ROAD
 - EXISTING RAILROAD
 - EXISTING CANAL
 - EXISTING DRAINAGE
 - EXISTING UTILITY
 - EXISTING FENCE
 - EXISTING CURB
 - EXISTING DRIVE
 - EXISTING SIDEWALK
 - EXISTING BIKEWAY
 - EXISTING TRAIL
 - EXISTING PATH
 - EXISTING BRIDGE
 - EXISTING TUNNEL
 - EXISTING STRUCTURE
 - EXISTING EQUIPMENT
 - EXISTING VEHICLE
 - EXISTING PERSON
 - EXISTING ANIMAL
 - EXISTING PLANT
 - EXISTING ROCK
 - EXISTING SOIL
 - EXISTING WATER
 - EXISTING AIR
 - EXISTING FIRE
 - EXISTING LIGHT
 - EXISTING SOUND
 - EXISTING SMELL
 - EXISTING TASTE
 - EXISTING TOUCH
 - EXISTING FEEL
 - EXISTING THINK
 - EXISTING KNOW
 - EXISTING BELIEVE
 - EXISTING FEEL
 - EXISTING THINK
 - EXISTING KNOW
 - EXISTING BELIEVE



BUILDING AREA (SQ. FT.)	ROOF ELEV.
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00
45000.00	500.00

- SURVEY NOTES**
1. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF.
 2. ALL ANGLES ARE IN DEGREES, MINUTES AND SECONDS.
 3. ALL CURVES ARE CIRCULAR UNLESS OTHERWISE NOTED.
 4. ALL ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
 5. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROAD OR RAILROAD.
 6. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE CANAL OR DRAINAGE.
 7. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE BIKEWAY OR TRAIL.
 8. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE PATH.
 9. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE BRIDGE.
 10. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE TUNNEL.
 11. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE STRUCTURE.
 12. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE EQUIPMENT.
 13. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE VEHICLE.
 14. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE PERSON.
 15. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ANIMAL.
 16. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE PLANT.
 17. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE ROCK.
 18. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE SOIL.
 19. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE WATER.
 20. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE AIR.
 21. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE FIRE.
 22. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE LIGHT.
 23. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE SOUND.
 24. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE SMELL.
 25. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE TASTE.
 26. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE TOUCH.
 27. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE FEEL.
 28. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE THINK.
 29. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE KNOW.
 30. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE BELIEVE.

UTILITY SERVICE PROVIDERS:

- WATER - THE TOWN OF TORBAY
- SEWER - THE TOWN OF TORBAY
- ELECTRIC - THE TOWN OF TORBAY
- TELEPHONE - THE TOWN OF TORBAY
- CABLE - THE TOWN OF TORBAY
- INTERNET - THE TOWN OF TORBAY
- POSTAL - THE TOWN OF TORBAY
- RAILROAD - THE TOWN OF TORBAY
- CANAL - THE TOWN OF TORBAY
- DRAINAGE - THE TOWN OF TORBAY
- BIKEWAY - THE TOWN OF TORBAY
- TRAIL - THE TOWN OF TORBAY
- PATH - THE TOWN OF TORBAY
- BRIDGE - THE TOWN OF TORBAY
- TUNNEL - THE TOWN OF TORBAY
- STRUCTURE - THE TOWN OF TORBAY
- EQUIPMENT - THE TOWN OF TORBAY
- VEHICLE - THE TOWN OF TORBAY
- PERSON - THE TOWN OF TORBAY
- ANIMAL - THE TOWN OF TORBAY
- PLANT - THE TOWN OF TORBAY
- ROCK - THE TOWN OF TORBAY
- SOIL - THE TOWN OF TORBAY
- WATER - THE TOWN OF TORBAY
- AIR - THE TOWN OF TORBAY
- FIRE - THE TOWN OF TORBAY
- LIGHT - THE TOWN OF TORBAY
- SOUND - THE TOWN OF TORBAY
- SMELL - THE TOWN OF TORBAY
- TASTE - THE TOWN OF TORBAY
- TOUCH - THE TOWN OF TORBAY
- FEEL - THE TOWN OF TORBAY
- THINK - THE TOWN OF TORBAY
- KNOW - THE TOWN OF TORBAY
- BELIEVE - THE TOWN OF TORBAY

REFERENCES:

1. THE TOWN OF TORBAY ZONING BY-LAW, 2010.
2. THE TOWN OF TORBAY SUBDIVISION ACT, 1990.
3. THE TOWN OF TORBAY LAND USE ACT, 1990.
4. THE TOWN OF TORBAY ENVIRONMENTAL ACT, 1990.
5. THE TOWN OF TORBAY BIKEWAY ACT, 1990.
6. THE TOWN OF TORBAY TRAIL ACT, 1990.
7. THE TOWN OF TORBAY PATH ACT, 1990.
8. THE TOWN OF TORBAY BRIDGE ACT, 1990.
9. THE TOWN OF TORBAY TUNNEL ACT, 1990.
10. THE TOWN OF TORBAY STRUCTURE ACT, 1990.
11. THE TOWN OF TORBAY EQUIPMENT ACT, 1990.
12. THE TOWN OF TORBAY VEHICLE ACT, 1990.
13. THE TOWN OF TORBAY PERSON ACT, 1990.
14. THE TOWN OF TORBAY ANIMAL ACT, 1990.
15. THE TOWN OF TORBAY PLANT ACT, 1990.
16. THE TOWN OF TORBAY ROCK ACT, 1990.
17. THE TOWN OF TORBAY SOIL ACT, 1990.
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19. THE TOWN OF TORBAY AIR ACT, 1990.
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22. THE TOWN OF TORBAY SOUND ACT, 1990.
23. THE TOWN OF TORBAY SMELL ACT, 1990.
24. THE TOWN OF TORBAY TASTE ACT, 1990.
25. THE TOWN OF TORBAY TOUCH ACT, 1990.
26. THE TOWN OF TORBAY FEEL ACT, 1990.
27. THE TOWN OF TORBAY THINK ACT, 1990.
28. THE TOWN OF TORBAY KNOW ACT, 1990.
29. THE TOWN OF TORBAY BELIEVE ACT, 1990.

CERTIFICATION:

I, the undersigned, being a duly qualified and licensed Professional Engineer, do hereby certify that the foregoing is a true and correct copy of the original survey and plan as filed in the Office of the Registrar of the Province of Ontario, and that the same conform to the requirements of the Engineering Act, R.S.O. 1990, Chapter E-1, and the Regulations made thereunder.

Dated this 1st day of January, 2010.

Professional Engineer



Photo #1: Outlet of West Disposal Area Drainage, looking north at flap gates.



Photo #2: Drainage culvert pipes from West Disposal Area to Outlet, looking south.

Site: Former JT Baker Site
 Site Location: Penn Yan, New York



Photo #3: West Disposal Area, west end, looking west.



Photo #4: West Disposal Area, looking northwest.

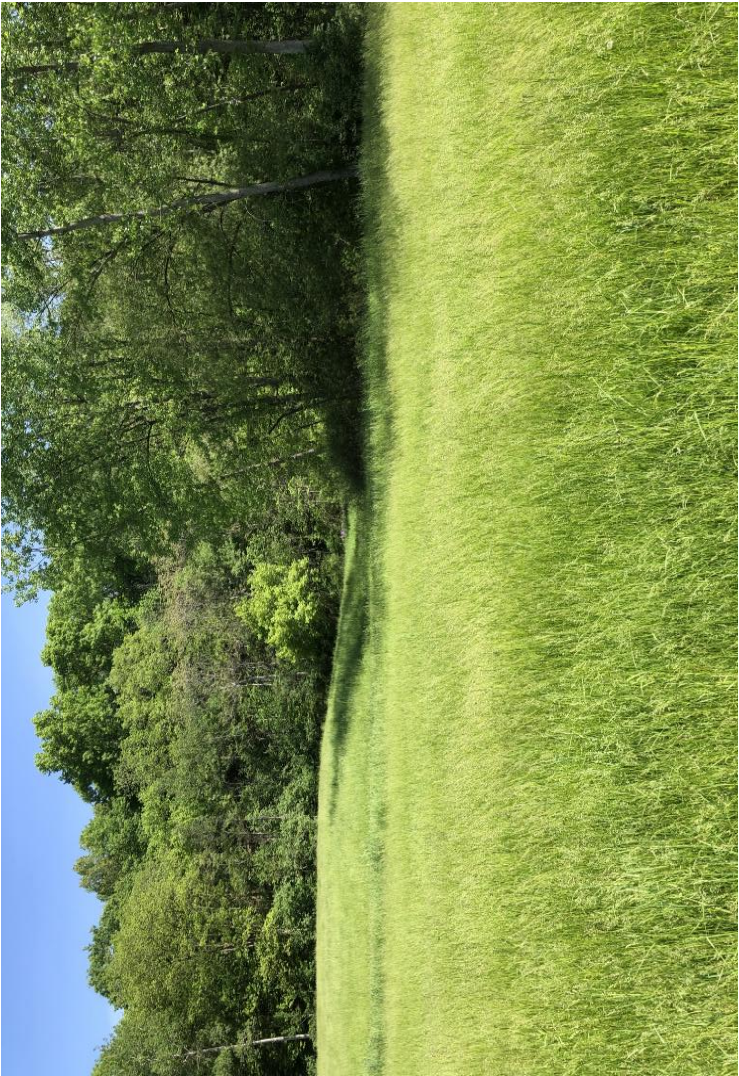


Photo #5: East end of West Disposal Area.



Photo #6: Former Structure 6 Excavation Area, looking west.



Photo #7: Former Structure 6 Excavation Area, looking east.



Photo #8: Recently cleared area, looking east, with Former Structure 6 Area in the distance.

2022 Site Inspection Logs, Site Plan and Photos

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 17, 2022
 Weather: Sunny, 60°F

Site Inspection Log - Engineering Systems

ITEM	EXAMPLES OF TYPES OF PROBLEMS	TRIGGER LEVEL (if applicable)	STATUS*	OBSERVATIONS	DATE AND NATURE OF REPAIRS/ MAINTENANCE
<u>Former Structure 6 Excavation Area</u> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion	Greater than 10% of area devoid of vegetation (600 square feet).	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area.	Acceptable	No settlement or subsidence observed; No ponding observed	
<u>West Disposal Area</u> <i>Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion; growth of seedlings, trees and shrubs.	Greater than 10% of area devoid of vegetation (7,500 square feet) ; greater than 10% coverage by seedlings.	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (18,750 square feet).	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>Run-off Conveyance Channels</i>	Obstruction to flow; bank erosion; deterioration; excessive siltation; inadequate protective vegetation; loose riprap or missing riprap.	Any clogging or obstructions to flow; greater than 10% of area (600 square feet) devoid of vegetation.	Acceptable	Healthy vegetative cover; No standing water; No visible obstructions	Not Applicable
<i>Culverts</i>	Corrosion; deterioration; siltation; blockage; clogging.	Any clogs or deterioration that affects structural integrity or flow.	Acceptable	No corrosion, deterioration or blockages observed	Not Applicable
<i>Flap Gates</i>	Leakage; deterioration; malfunction.	Any leakage; any corrosion or deterioration that affects structural integrity; inoperability.	Acceptable	Minimal sediment observed at flap gates, and gates operate freely.	Not Applicable
<u>Site Wide</u> <i>Abandoned Groundwater Monitoring Wells</i>	Land subsidence	Land subsidence.	Modified	Minimal subsidence observed	Approximately 2-3" of subsidence observed at location of abandoned monitoring wells on the southeast side of West Disposal Area. Topsoil and grass seed placed on May 24, 2022

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 17, 2022
 Weather: Sunny, 60°F

Site Inspection Log - Engineering/Institutional Controls

Have there been any changes since the last inspection? If yes, note the changes.		
	Yes	No
<u>Former Structure 6 Excavation Area</u>		
<i>Cover System</i>		X
		Cover is in good condition, vegetation is healthy.
<u>West Disposal Area</u>		
<i>Cover System</i>		X
		Cover is in good condition, vegetation is healthy
<i>Run-off Conveyance Channels</i>		X
		Healthy vegetation, no standing water
<i>Culverts</i>		X
		Culverts are in good condition
<i>Flap Gates</i>		X
		Minimal sediment observed at flap gates, and gates operate freely.
<u>Are the following in place and effective? If no, make note of conditions.</u>		
<u>Former Structure 6 Excavation Area</u>	Yes	No
<i>Cover System</i>	X	
<u>West Disposal Area</u>		
<i>Cover System</i>	X	
<i>Run-off Conveyance Channels</i>	X	
<i>Culverts</i>	X	
<i>Flap Gates</i>	X	
<u>Has anything occurred to the following engineering controls to impair their ability? If yes, make note of conditions.</u>		
<u>Former Structure 6 Excavation Area</u>	Yes	No
<i>Cover System</i>		X
<u>West Disposal Area</u>		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
<u>Is there housing, vegetable gardening and/or groundwater use in the former Structure 6 excavation area or the West Disposal Area?</u>		
No		
<u>Has any excavation activity occurred in the former Structure 6 excavation area and/or the West Disposal Area?</u>		
No		



Photo #1: Outlet of West Disposal Area Drainage, looking north at flap gates.



Photo #2: Drainage culvert pipes from West Disposal Area to Outlet, looking south.



Photo #3: West Disposal Area, west end, looking west.



Photo #4: West Disposal Area, looking northwest.



Photo #5: East end of West Disposal Area.



Photo #6: Former Structure 6 Excavation Area, looking west.



Photo #7: Former Structure 6 Excavation Area, looking east.



Photo #8: Recently cleared area, looking east, with Former Structure 6 Area in the distance.

2023 Site Inspection Logs, Site Plan and Photos

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 22, 2023
 Weather: Sunny, 60°F

Site Inspection Log - Engineering Systems

ITEM	EXAMPLES OF TYPES OF PROBLEMS	TRIGGER LEVEL (if applicable)	STATUS*	OBSERVATIONS	DATE AND NATURE OF REPAIRS/ MAINTENANCE
<i>Former Structure 6 Excavation Area Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion	Greater than 10% of area devoid of vegetation (600 square feet).	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area.	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>West Disposal Area Vegetation</i>	Inadequate protective vegetation (where applicable); fertilization needed; areas of erosion; growth of seedlings, trees and shrubs.	Greater than 10% of area devoid of vegetation (7,500 square feet) ; greater than 10% coverage by seedlings.	Acceptable	Healthy vegetative cover (>95%); No seedlings, trees or shrubs	Not Applicable
<i>Cover Material</i>	Settlement; subsidence; erosion; failure to maintain 3 to 5 percent slope; exposed waste materials. Evidence of physical disturbance.	Ponding over more than 25% of area (18,750 square feet).	Acceptable	No settlement or subsidence observed; No ponding observed	Not Applicable
<i>Run-off Conveyance Channels</i>	Obstruction to flow; bank erosion; deterioration; excessive siltation; inadequate protective vegetation; loose riprap or missing riprap.	Any clogging or obstructions to flow; greater than 10% of area (600 square feet) devoid of vegetation.	Acceptable	Healthy vegetative cover; No visible obstructions	Not Applicable
<i>Culverts</i>	Corrosion; deterioration; siltation; blockage; clogging.	Any clogs or deterioration that affects structural integrity or flow.	Acceptable	No corrosion, deterioration or blockages observed	Not Applicable
<i>Flap Gates</i>	Leakage; deterioration; malfunction.	Any leakage; any corrosion or deterioration that affects structural integrity; inoperability.	Acceptable	Minimal sediment observed at flap gates, and gates operate freely.	Not Applicable
<i>Site Wide Abandoned Groundwater Monitoring Wells</i>	Land subsidence	Land subsidence.	Acceptable	Minimal subsidence observed	Not Applicable

* Acceptable or Unacceptable Inspecting Personnel: Aaron Richardson - Arcadis Date of Inspection: May 22, 2023
 Weather: Sunny, 60°F

Site Inspection Log - Engineering/Institutional Controls

Have there been any changes since the last inspection? If yes, note the changes.		
	Yes	No
Former Structure 6 Excavation Area		
<i>Cover System</i>		X
		Cover is in good condition, vegetation is healthy.
West Disposal Area		
<i>Cover System</i>		X
		Cover is in good condition, vegetation is healthy
<i>Run-off Conveyance Channels</i>		X
		Healthy vegetation, some downed branches, but no obstructions observed
<i>Culverts</i>		X
		Culverts are in good condition
<i>Flap Gates</i>		X
		Minimal sediment observed at flap gates, and gates operate freely.
Are the following in place and effective? If no, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>	X	
West Disposal Area		
<i>Cover System</i>	X	
<i>Run-off Conveyance Channels</i>	X	
<i>Culverts</i>	X	
<i>Flap Gates</i>	X	
Has anything occurred to the following engineering controls to impair their ability? If yes, make note of conditions.		
Former Structure 6 Excavation Area	Yes	No
<i>Cover System</i>		X
West Disposal Area		
<i>Cover System</i>		X
<i>Run-off Conveyance Channels</i>		X
<i>Culverts</i>		X
<i>Flap Gates</i>		X
Is there housing, vegetable gardening and/or groundwater use in the former Structure 6 excavation area or the West Disposal Area?		
No		
Has any excavation activity occurred in the former Structure 6 excavation area and/or the West Disposal Area?		
No		



Photo #1: Outlet of West Disposal Area Drainage, looking north at flap gates.



Photo #2: Drainage culvert pipes from West Disposal Area to Outlet, looking south.

Site: Former JT Baker Site
 Site Location: Penn Yan, New York



Photo #3: West Disposal Area, west end, looking west.



Photo #4: West Disposal Area, looking northwest.

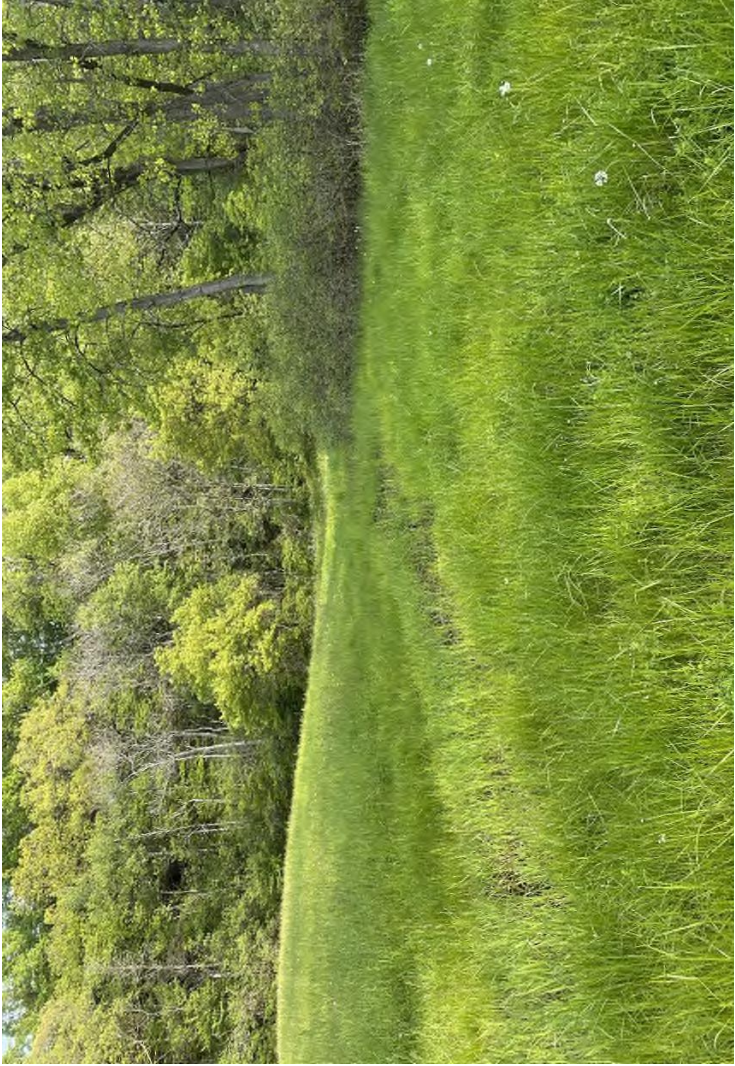


Photo #5: East end of West Disposal Area.



Photo #6: Former Structure 6 Excavation Area, looking west.



Photo #7: Former Structure 6 Excavation Area, looking east.



Photo #8: Cleared area west of Former Structure 6 Area, with Former Structure 6 Area in the distance.

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