RAMBOLL

WATER

Mr. Parag Amin
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014

RE: Whitestown Municipal Landfill, NYSDEC Site No. 633013

FILE: 1087908/1940102347

Date January 31, 2023

Dear Mr. Amin:

This Periodic Review Report (PRR) is being provided by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of the Town of Whitestown (Town) for the reporting period January 1, 2022, to December 31, 2022.

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EXECUTIVE SUMMARY

REMEDIAL HISTORY

The Town Municipal Landfill (NYSDEC Site No. 633013) was closed and capped in 1992. The landfill final cover consists of a seven-foot thick soil layer and a composite layer consisting of topsoil, upper barrier protection, drainage, geomembrane, lower barrier protection, and gas venting sub-layers. The side slopes do not include the lower barrier protection layer.

COMPLIANCE

A formal "Site Management Plan" was not originally prepared for the Whitestown Landfill upon closure, but rather post remediation phase site practices for the site were established in the following manuals:

- *Landfill Cap Post-Closure Monitoring and Maintenance Operations Manual*, Town of Whitestown (1993 M&MO Manual), NY, January 1993, prepared by Stearns & Wheler.

- *Groundwater Interceptor System, Operation, Maintenance, and Monitoring Manual*, Town of Whitestown, (2003 OM&M Manual), October 2003, prepared by Montgomery Watson Harza (MWH).

The Town is in general conformance with these manuals.

The Town of Whitestown Highway Department is responsible for maintenance at the landfill site and information obtained for this PRR is largely based on their input.

RECOMMENDATIONS

Ramboll has previously provided the following recommendations to the Town:

- Prepare an updated Site Management Plan (SMP) which will amend the environmental monitoring program after the completion of the Remedial System Optimization (RSO) Evaluation. A draft SMP was submitted to NYSDEC Region 6 on December 31, 2022, and is anticipated to be finalized in February 2023.

- Subject site properties to an Environmental Easement. The Town attorney is currently preparing documentation to support the Environmental Easement.

- Continue to pursue decommissioning of the Groundwater Collection Trench System which has been delayed by required Emerging Contaminant Sampling which took place in 2019, and NYSDEC request for additional seep sampling data relative to arsenic levels, which was completed in 2020 but is now extended indefinitely based on a NYSDEC April 12, 2021 letter.

- Continue to monitor and clean perimeter drainage ditches as necessary, cut and remove any tree growth and brush from the northeast culvert headwall, keep debris from collecting on the concrete apron and stone swale, and monitor the ponding areas identified on the landfill cap for any further settlement that may require installing surface drainage improvements.

SITE OVERVIEW

The Whitestown Landfill is the former municipal landfill in the Town of Whitestown and is listed by the NYSDEC as a Class 4 Inactive Hazardous Waste Disposal Site (Index No. A6-0140-88-02, Site No. 633013). The 50-acre site is located on the south side of the Mohawk River Valley southeast of the Village of Oriskany, Town of Whitestown, Oneida County, New York (see Attachment 1 – Landfill Site Plan). A steep bluff runs along the northern limits of the landfill boundary, which is parallel to NYS Route 69 and the Old Erie Canal. The Oriskany Elementary School is located 400-feet northwest of the landfill across Shacksbury Road. Lands to the south are undeveloped and wooded. The geologic profile underlying the site consists of thick, unconsolidated deposits of sand and gravel near the surface, and fine-grained sand and silt at lower depths.

The following Site Investigation history was provided in the April 2013 PRR report by Shumaker Consulting Engineering & Land Surveying, PC:

> "Remedial investigations beginning in 1987 sought to determine the scope of contamination and evaluate potential remediation technologies. In accordance with the Order on Consent closing the landfill, the Town proceeded with design and construction of an impermeable cap over the waste. The cap was completed in 1992.

Contaminants detected in groundwater below the landfill are principally volatile organics, semi-volatile organics, and metals primarily found in the east part of the site. These contaminants generally exceed Federal Maximum Contaminant Levels (MCL) and New York State water quality standard limits. A groundwater contaminant plume in the upper portion of the aquifer was found to extend northeastward along the base of the bluff but at significantly lower levels. The 1991 Whitestown Landfill Feasibility Study concluded the cap would significantly reduce infiltration, leachate generation, and result in decreased contamination concentrations over time. The study estimated that contaminated groundwater would continue to be discharged for approximately 20 years assuming conditions remained unchanged. In addition to continued groundwater monitoring, the acquisition and demolition of a number of off-site residences was also recommended to limit human exposure.

In 2002, the Town proceeded with additional IC/EC measures including stabilization of a steep-sloped portion of the bluff along NYS Route 69, removal of specific residence structures, and the installation of a shallow groundwater collection system to control seepage. Construction included over 1,500 lineal feet (LF) of filter media filled collection trench [Shallow Groundwater Collection Trench] with slotted HDPE pipe to intercept groundwater flow. The collection system components consist of a sediment chamber, submersible pump station, 50,000-gallon steel groundwater holding tank, bypass piping, flow metering manhole, and new 8-inch discharge sewer connection to the 36-inch Oneida County Interceptor Sewer."

A Remedial System Optimization (RSO) Evaluation commenced in 2014 to determine the feasibility of shutting down and decommissioning the Shallow Groundwater Collection Trench (GWCT). As a basis of that evaluation, the Town has pointed to a history of low contaminant levels in the groundwater downgradient of the landfill, and reduced human exposure risks based on the Town's acquisition, over time, of most of the adjacent residential properties north-northeast of the landfill.

EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS, AND PERFORMANCE

The following summary was provided in the April 2013 PRR and remains accurate relative to recent monitoring events:

"Since 1994, detections of landfill-related contaminants have been generally very low, with concentrations below or only slightly above Class GA Standards. The most common organic compounds detected are 1,1-Dichloroethane, 1,2-Dichloroethene (total), Chloroethane, Acetone, Methylene Chloride, and Vinyl Chloride. However, detections of Chloroethane, Methylene Chloride, and Vinyl Chloride have been inconsistent, and Methylene Chloride has been often found in laboratory blanks. There have been virtually no detections above 25 ppb of these most commonly found compounds in any of the wells in the monitoring program (H106S, H106D, H301, H110, H201, and H111) since 1994. The exceptions seem to be a period between March 1995 and September 1996, when detections of 1,2-Dichloroethene (total) ranged between 26 ppb and 57 ppb at H111, and sporadic detections of Acetone at H106, H106D, H111, and H301, peaking at 120 ppb in December 2002 at well H111.

The ROD cited a level 135 ppb of total chlorinated hydrocarbons at H111 as "organic contamination." During the post RI monitoring period (from 1994 through 2011), the total

concentration of chlorinated hydrocarbons was never again at, or above the 135-ppb level. The highest sum of chlorinated hydrocarbons during the post RI period was 98 ppb, which was also at H111, in March 1996."

According to the April 2013 PRR of historic data, organic contamination relative to the landfill has been decreasing in downgradient areas since 1999. Organic contaminate reductions have been attributed in combination to the landfill cap and natural attenuation. With regard to inorganic contamination, the April 2013 PRR reports no observable trends with "several metals detected, at various locations, in excess of Class GA Standards including Arsenic, Cadmium, Chromium, Lead, Selenium, and Iron." Inorganic contaminates are expected to be released from soil particles via oxidation-reduction reactions in anaerobic conditions. Iron reduction, from microbial activity, releases both iron and arsenic into the groundwater because one of the irons oxidants, Iron Oxyhydroxide, is an absorbent of arsenic.

IC/EC PLAN COMPLIANCE REPORT

IC/EC REQUIREMENTS AND COMPLIANCE

An Institutional Controls/Engineering Controls (IC/EC) Plan was not prepared for the site. Additional information on each control is contained in archive records, i.e., design and construction documents, letter correspondence, special studies, legal records, and Town resolutions, etc. This information is extensive and has never been consolidated into a single plan or summary. The ROD is the source of the IC/EC requirements; guidelines in complying with the ROD have been offered by the NYSDEC and New York State Department of Health (NYSDOH) for the past 30 years, and have predominately been documented in letters, emails, and notes.

The IC/EC as directed by the ROD are summarized below:

- Construction of an engineered multimedia final landfill cover over the main waste mass, with a passive vent system for landfill gas
- Stabilization of the north bluff face to protect landfill cap from potential erosion or collapse
- Construction of surface water drainage systems to protect the landfill cap and bluff from erosion
- Adoption of institutional controls to prevent groundwater use and property development along NYS Route 69, immediately downgradient from the landfill, and at Shacksbury Road
- Installation of a subsurface collection system (Shallow Groundwater Collection Trench) to intercept shallow groundwater in the plume area and eliminate exposures at the P1 and P2 residential properties (refer to the Attachment 1 - Landfill and GWCT Site Plan).
- Removal of soils impacted by seeps, and replacement with low-permeability backfill
- Environmental monitoring to determine the effectiveness of the remedial program

With regard to the above IC/EC, the Town commenced an RSO Evaluation in July 2014 to complete a trial shutdown of GWCT based on completing additional institutional controls with regard to the P1 and P2 residences. The P1 residence was acquired by the Town in May 2013 and demolished in November 2013. The basement was filled with clean fill material. The main reason for the inclusion of the GWCT was to control seepage at these properties, thereby eliminating exposure routes.

The Town assumed ownership and demolished structures at the P2 property over 20 years ago. The only structure remaining is the vehicle service garage building west of the P1 property, which is a slab-on-grade construction with the first floor limited to commercial uses.

IC/EC CERTIFICATION

The Institutional and Engineering Controls Certification Form for 2021 is provided as Attachment 2 to this PRR.

MONITORING PLAN COMPLIANCE REPORT

COMPONENTS OF MONITORING PLAN

Groundwater Sampling
Six well locations are required in the 2003 OM&M Manual for ongoing monitoring activities (H106S, H106D, H301, H110, H201, and H111). Monitoring wells H106S and H106D have been replaced with monitoring wells H501S and H501D, respectively. According to the April 2013 PRR, the H501 well couplet was placed 10 feet from the former H106 well couplet after a car accident damaged H106S and H106D in 2004. Refer to Figure 1 for sampling locations.

Groundwater samples are also collected and analyzed from the two western-most piezometers. One of these piezometers is located north (downgradient) of the inactive interceptor trench, and the other is located south (upgradient) of the interceptor trench.

Groundwater samples collected from the six groundwater locations are submitted for Volatile Organic Compound (VOC) analysis following United States Environmental Protection Agency (USEPA) Method 8260 (latest method version); Resource Conservation and Recovery Act (RCRA) metals following USEPA Methods 6010 and 7470 (latest method versions); Hexavalent Chromium following Standard Method 18 3500Cr-D or 7196A; and Cyanide following USEPA Method 335.4 or 9012. Groundwater samples recovered from the two designated piezometers are submitted for only VOC analysis following USEPA Method 8260 (latest method version).

Wastewater Discharge Sampling
When in operation from 2002 to 2014, the shallow groundwater captured by the GWCT was discharged to the Sauquoit Creek Pumping Station via the Oneida County sewer system. From the pumping station, the groundwater combined with sanitary wastewater is transferred to the Oneida County Water Pollution Control Plant and ultimately discharged to the Mohawk River. During this current reporting period, the GWCT remains out of operation due to the RSO Evaluation and special sampling events to assess Emerging Contaminants and arsenic concentrations in groundwater.

Gas Vent Sampling
Three gas vents are typically being sampled as part of the monitoring program. All samples are collected in 1L SUMMA canisters and analyzed for USEPA standard target VOCs as specified in USEPA Method TO-14A.

Summary of Monitoring Completed
Recent sampling rounds have been completed under the RSO Evaluation in September 2014, December 2014, March 2015, and July 2015. Post RSO Evaluation sampling events have occurred in October 2016, April 2018, July 2019 (Emerging Contaminant Sampling event), November 2020 (modified event for arsenic review), April 2022 (modified event for arsenic review).

MONITORING DEFICIENCIES

The last sampling event was in April 2022, and like November 2020 event, it was modified to include seep sampling, specifically designed to answer NYSDEC questions as to the presence of arsenic in unfiltered seep samples. In an April 12, 2021 letter, the NYSDEC required that "both dissolved (filtered) and total (unfiltered) samples of the seeps be collected and analyzed for metals until enough data are collected to determine that the variability of arsenic concentration is impacted by turbidity."

CONCLUSIONS AND RECOMMENDATIONS

Amendments to the monitoring program may be necessary if and when the groundwater collection system is permanently decommissioned. The new monitoring program would update prescribed analytical methods for groundwater and landfill gas analysis, as some have been revised over time by the USEPA.

OPERATION AND MAINTENANCE (O&M) PLAN COMPLIANCE REPORT

COMPONENTS OF LANDFILL CAP O&M PLAN

- **Mowing and Vegetation**: Mowing of the landfill cap vegetation will be performed at least bi-annually to discourage woody plants. The first mowing is required after the grass has gone to seed in the late spring. Periodic inspections are required to identify areas of stressed vegetation, erosion, settlement, and condition of security fencing. Maintenance also includes re-vegetating areas, clearing tree and brush growth, and the addition of topsoil in eroded or settled areas.

- **Drainage Systems**: The drainage systems will be checked for failures and obstructions as part of the monthly inspections, and after severe storm events. Specific attention will be given to the trash racks at the drainage culvert headwall at the northeastern corner of the landfill, and the outfall of the dry detention pond at the southwestern corner. A stone lined perimeter ditch discharges stormwater to drainage along Shacksbury Road, and into the wetland area north of NYS Route 69. These areas must be kept free of sediment buildup and woody plant growth.

- **Gas Venting System**: The gas venting system will be inspected for plugging and damage to the vent risers, as well as readings of combustible gases, as part of the quarterly groundwater monitoring program. Bi-yearly measurement of combustible gas and total volatile organics will be conducted with results reported to the NYSDEC and the NYSDOH. A number of gas vents were retrofitted with carbon canisters in response to off-site odor complaints in the early years after completion of the cap. These canisters were removed in 2015. There are no documented reports of recent off-site odor problems.

- **Cap Surface**: Periodic inspection of the landfill surface to identify areas of erosion, dead vegetation, subsidence, or surface water ponding will be noted on monthly field inspection reports prepared by the Town Highway Department. Appropriate repairs will be undertaken in accordance with the NYSDEC approved cap repair protocol.

COMPONENTS OF GROUNDWATER COLLECTION SYSTEM O&M PLAN

While in operation, the GWCT abides by the following maintenance and inspection procedures:

- **Trench Cleaning**: The groundwater interceptor trench will be cleaned annually to remove buildup of silt and bacterial growth from the slotted pipe. Cleanouts at 500-foot intervals are provided to allow the use of high-pressure water jetting and vacuum lines. The settlement chamber will be dewatered and cleaned using a vacuum truck as required.

- **Pump Station**: The pump station will be exercised regularly to verify readiness and serviced by the manufacturer's factory trained representative. Pump and tank level controls, fan, heater, and auto-dialer will be kept in good operating condition.

- **Holding Tank**: The 50,000-gallon holding tank exterior will be routinely inspected for surface corrosion and condition of bolted panel sealants. Touch-up materials and methods will comply with manufacturer's recommendations. The interior of the tank will be checked for sediment deposits by observation from the roof hatch. Removal of tank sediment will follow the applicable OSHA confined-space entry requirements.

- **Flow Measurement Equipment**: Fiberglass flow measurement manhole and associated instrumentation will be kept clean and inspected for damage. Field calibration of the ultrasonic flow meter and sensor will be performed per schedule.

- **Miscellaneous**: Miscellaneous items also needing attention include annual potable water backflow prevention device testing (potable water service was terminated in 2011), lubrication of the entrance chain link fence slide gate, verification that the Sauquoit Creek Pumping Station remote auto-dialer is on-line, regular mowing of grassed areas, snow removal, and keeping the containment basin structure free of debris.

SUMMARY OF O&M COMPLETED DURING REPORTING PERIOD

During the 2022 reporting period, the Town completed routine O&M inspections of the landfill cap. Copies of inspection forms are provided as Attachment 3.

Routine Town inspections of the groundwater collection system has ceased since July 2014 because of the RSO Evaluation of the GWCT and Emerging Contaminant and arsenic assessments.

Other O&M activities included mowing which occurred on June 15 and 16, 2022.

EVALUATION OF REMEDIAL SYSTEMS

Landfill Cap

Ramboll conducted an onsite inspection of the landfill cap and Ground Water Collection Trench facility on December 15, 2022. The cap appeared in good condition. No overgrown or eroded areas were observed. The Town reported performing routine maintenance of the stone-lined drainage ditches around the cap perimeter, as well as required grass mowing. The one area of the cap that previously experienced significant settlement is closely checked during each inspection (see Attachment 4 - Photographic Log). A slotted underdrain pipe had been installed in the upper soil layer of the cap to drain off any ponding precipitation from that area to the perimeter swale and appears to still be functioning properly. Two additional areas of minor surface ponding on the cap were observed and identified for monitoring. No significant areas of cap settlement were observed.
The northeast end of the stone-lined swale along the perimeter road had water ponding in several locations during last year's inspection. Several areas of vegetation growth and sedimentation were noted as causing water to back up in the ditch. In addition, small trees and brush were noted at the drainage ditch outlet, i.e., northeast culvert headwall and concrete apron. In June 2022, the Town performed clearing and additional stone lining work on the perimeter swale and in these areas. Ramboll conducted an inspection to evaluate the completed work. The cap drainage system appears to be functioning properly but should be monitored closely, and organic material cleaned out if overtopping is noted. These facilities must remain cleared to prevent future drainage issues.

Groundwater Collection System

Ramboll followed the cap inspection with an onsite inspection of the groundwater collection system on December 15, 2022. Although the groundwater collection system is currently not operating due to the RSO evaluation, the grounds of the collection system facilities were inspected for general maintenance and upkeep.

The GWCT facility was visually inspected and found to be in good condition. No evidence of surface seeps or staining were observed at the facility site. The security fence around the rear of the storage tank/pump station site has not been replaced where Seep #7 was capped in 2015 (original area) and 2016 (extension area), pending a decision from the NYSDEC on the decommissioning of the GWCT system. The sediment basin, pump wet well, and meter pit hatches were securely locked to prevent access from unauthorized personnel or trespassers.

The low-lying areas that were filled in 2016, as part of the cap extension project to cover seep breakout points, remain in good condition. No ground settlement or surface ponding was observed in those locations.

O&M DEFICIENCIES

No O&M deficiencies have been observed by Ramboll.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that the Town complete the following activities:

- Continue to monitor and clean perimeter drainage ditches as necessary
- Cut and remove tree and brush growth from around the northeast culvert headwall apron, clear debris from the concrete apron and stone swale to prevent clogging of the cap drainage system outfall
- Continue to monitor the ponding areas identified for any further settlement that may require installing surface drainage improvements

OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

COMPLIANCE WITH O&M PLANS

The Town is in general conformance with the Landfill and GWCT Operation & Maintenance Plans.

PERFORMANCE AND EFFECTIVENESS OF REMEDY

Monitoring results of groundwater downgradient of the landfill support that the GWCT can be closed as long as human health risks can be shown to be acceptable, and exposure routes can be controlled. The temporary plugging of the GWCT does not appear to be causing any additional seep outbreaks. The collection system, with its discharge directly to the local sanitary sewer system, was in conflict with the NYSDEC directive to the Oneida County Sewer District (OCSD) to reduce non-sanitary flows upstream from the Sauquoit Creek Pumping Station.

The next steps with regard to the RSO Evaluation would be a public meeting addressing the proposed decommissioning of the GWCT if and when approved by the NYSDEC. A draft Work Plan for decommissioning the GWCT system was submitted on August 19, 2018 for NYSDEC review.

The NYSDEC will not approve the decommissioning of the GWCT until the following items are addressed or completed:

- The NYSDEC has requested that a Site Management Plan be prepared for the site, which would incorporate the 1993 *Landfill Cap Post-Closure Monitoring and Maintenance Operations Manual* by reference. A revised draft SMP was submitted on December 31, 2022. It is anticipated that the SMP will be completed in February 2023. The NYSDEC has clarified that the SMP cannot be approved until the Environmental Easement is completed and made part of the SMP.

- The 2022 Annual Environmental Monitoring Report submitted on December 28, 2022 (for the April 2022 sampling round) included seep sampling at the request of NYSDEC. The purpose of the seep sampling was to evaluate dissolved (filtered) arsenic in comparison to total arsenic. The results indicated dissolved arsenic in the seeps in significantly less than the total arsenic. In general, because the seeps are small, it is difficult to get samples that are free of suspended sediment. For this reason, total arsenic values are not the best representation of the arsenic that is present in the groundwater emanating from the seeps. Therefore, the NYSDEC is requiring that dissolved and total metal sampling of the seeps be continued, for now, so they can further evaluate the impacts of turbidity.

FUTURE PRR SUBMITTALS

The Town anticipates the next PRR to be submitted in January 2024.

Please contact me at (315)-794-1949 should you have any questions regarding this PRR.

Yours sincerely,

Paul D. Romano
PROGRAM MANAGER

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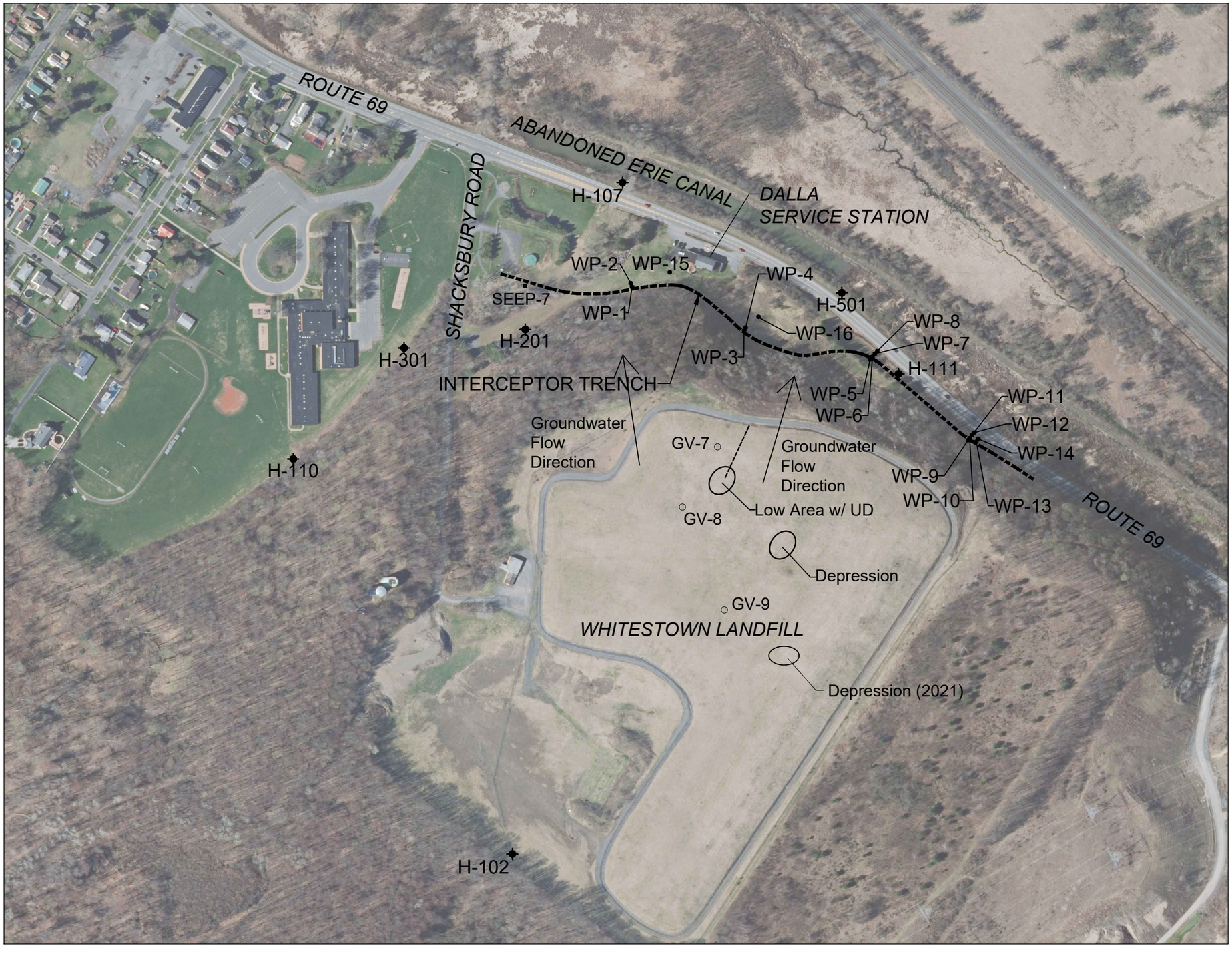
M +1-315-794-1949
paul.romano@ramboll.com

Attachments:

Attachment 1 – Figure 1 – Landfill & GWCT Site Plan
Attachment 2 – Institutional and Engineering Controls Certification Form
Attachment 3 – Monthly Town Inspection Forms
Attachment 4 – Photographic Log

ATTACHMENT 1
FIGURE 1 - LANDFILL AND GWCT SITE PLAN



0 150 300 FEET

SCALE:1"=300'

N

GROUNDWATER INTERCEPTOR TRENCH

WP-1 PIEZOMETER LOCATION LOCATION

H-201 MONITORING WELL LOCATION

GV-7 GAS VENT LOCATION

WHITESTOWN MUNICIPAL LANDFILL PERIODIC REVIEW REPORT - 2022

LANDFILL AND GROUNDWATER COLLECTION TRENCH SITE PLAN

FIGURE - 1

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.
UTICA, NEW YORK

RAMBOLL

ATTACHMENT 2
INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 633013

Site Name Whitestown Municipal Landfill

Site Address: Shacksbury Road Zip Code: 13492
City/Town: Whitestown
County: Oneida
Site Acreage: 30.000

Reporting Period: December 31, 2021 to December 31, 2022

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

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below?Closed Landfill	X	☐
7. Are all ICs in place and functioning as designed? *See PRR for RSO Evaluation status*	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 633013 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
291.000-2-51	Town of Whitestown	Monitoring Plan O&M Plan

Pursuant to ROD, institutional controls preventing use of ground water or future development of property onsite and vacant properties down gradient of the site between bluff and the old Erie Canal shall be implemented by the Town of Whitestown.

Box 4

Description of Engineering Controls

Parcel	Engineering Control	
291.000-2-51	Cover System Alternate Water Supply Leachate Collection Fencing/Access Control	*See PRR Report for additional information on Engineering Controls*

Town of Whitestown shall perform environmental monitoring to determine the effectiveness of the remedial program stated in Record of Decision (ROD). Pursuant to ROD, ground water, surface water, sediment and landfill vent gases will be subjected to a periodic monitoring program designed to detect any changes in the effectiveness of the remedial program.

a. Landfill:

A long-term Operation, Maintenance, and Monitoring (OMM) program shall be developed and implemented to monitor groundwater, landfill vent gas, ensure the effectiveness of the engineered cap system, appropriate storm water management systems and site control measures (i.e., fencing). Specifically, Town of Whitestown shall implement Operation, Maintenance, and Monitoring (OMM) Manual, October 2003.

b. Shallow ground water collection trench:

A long-term Operation, Maintenance, and Monitoring (OMM) program shall be developed and implemented to monitor subsurface water, ensure the effectiveness of the shallow ground water collection system and site control measures (i.e., fencing). Specifically, Town of Whitestown shall implement Operation, Maintenance, and Monitoring (OMM) Manual, October 2003.

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 Engineering Control certification;

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

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The 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) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 633013

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 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 Sal Granato (print name) at 8539 Clark Mills Road (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Sal Granato
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

1-31-23
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 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 Paul D. Romano at 101 First Street, Utica, NY 13501,
print name print business address

am certifying as a Professional Engineer for the Town of Whitestown
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		01/31/2023

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
      1. 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.

ATTACHMENT 3
MONTHLY TOWN INSPECTION FORMS

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Jan 20, 2022

1	Entrance driveway condition	✓ good		fair		poor
2	Roadside ditches and culverts under driveway		✓ unobstructd			obstructed*
3	Facility sign condition	✓ good		fair		poor		missing*
4	Sign information		current		outdated*			
5	Fence condition	✓ good		fair		damaged*		dormant
6	Route 69 bluff condition	✓ good		needs repair*				
7	Vegetative Cover	✓ good		poor*		dead		dormant
8	Other plants present		burdock		thistle		crown vetch	
9	Woody plants	✓ not on cap		present		average diameter _____ in.		
10	Gas vents	✓ unobstructd		obstructed*		missing*		damaged*
11	Surface erosion	✓ none		minor		needs repair*		
12	Differential Settlement	✓ none		minor		needs repair*		
13	Ditches around landfill	✓ clear		sediments		plugged*		
14	Impact Basin	✓ clear		sediments		plugged*		
15	Bar screens at 24" storm lines	✓ clear		debris		plugged*		
16	Detention Basin	✓ clear		sediments		6" buildup*		
17	Most recent mowing	_____ (date)						
18	Distance from cap to woods	_____ (average)				_____ (minimum)*		
19	Posted signs	✓ all present on arrival				# replaced: _____		
20	Groundwater monitoring wells	✓ secure with locks				damaged*		
21	Litter present	✓ no		yes		Est. removal date: _____		
22	Evidence of ponded water	✓ none		observed*		suspected*		
23	Fallen Trees	✓ none		present on cap*		date removed: _____		
24	Evidence of trespass	yes*		✓ no				
25	Evidence of motor vehicle use	✓ no		auto/truck*		motorcycle*		ATV*
26	Woodchuck/rabbit holes in cap	✓ no		yes		date backfilled: _____		
27	Evidence of lightning strikes	✓ no		yes*				
28	Unauthorized materials present	✓ no		yes*				
29	Unauthorized signs present	✓ no		yes		type: _____		
30	Dead animals present	✓ no		yes*				
31	Oil slicks observed on adjacent waters			✓ no		yes*		
32	Leachate seeps	✓ no		yes*		stain color: _____		
33	Leachate fluid	puddle		stream*		length: _____ ft.		
34	Gulls/scavenger birds present	✓ no		yes				
35	Other animal foraging evidence	✓ no		yes*				

36 Date of most recent cap delination by engineer: _____

* = Enter comments on reverse side

Sal Granata Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Feb. 10, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Ted Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: March 25, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Grunato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Apr. 14, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Hal Gramato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: May 5, 2021

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

M L Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: June 17, 2022

1	Entrance driveway condition	✓ good		fair		poor
2	Roadside ditches and culverts under driveway		✓	unobstructd		obstructed*
3	Facility sign condition	✓ good		fair		poor		missing*
4	Sign information		current		outdated*	
5	Fence condition	✓ good		fair		damaged*		dormant
6	Route 69 bluff condition	✓ good		needs repair*		
7	Vegetative Cover	✓ good		poor*		dead		dormant
8	Other plants present		burdock		thistle		crown vetch	
9	Woody plants	✓ not on cap		present		average diameter _____ in.	
10	Gas vents	✓ unobstructd		obstructed*		missing*		damaged*
11	Surface erosion	✓ none		minor		needs repair*	
12	Differential Settlement	✓ none		minor		needs repair*	
13	Ditches around landfill	✓ clear		sediments		plugged*	
14	Impact Basin	✓ clear		sediments		plugged*	
15	Bar screens at 24" storm lines	✓ clear		debris		plugged*	
16	Detention Basin	✓ clear		sediments		6" buildup*	
17	Most recent mowing	June 15'16 (date)					
18	Distance from cap to woods	_____ (average)				_____ (minimum)*	
19	Posted signs	✓ all present on arrival				# replaced: _____	
20	Groundwater monitoring wells	✓ secure with locks				damaged*	
21	Litter present	✓ no		yes		Est. removal date: _____	
22	Evidence of ponded water	✓ none		observed*		suspected*	
23	Fallen Trees	✓ none		present on cap*		date removed: _____	
24	Evidence of trespass	yes*		✓ no			
25	Evidence of motor vehicle use	✓ no		auto/truck*		motorcycle*		ATV*
26	Woodchuck/rabbit holes in cap	✓ no		yes		date backfilled: _____	
27	Evidence of lightning strikes	✓ no		yes*			
28	Unauthorized materials present	✓ no		yes*			
29	Unauthorized signs present	✓ no		yes		type: _____	
30	Dead animals present	✓ no		yes*			
31	Oil slicks observed on adjacent waters			✓ no		yes*	
32	Leachate seeps	✓ no		yes*		stain color: _____	
33	Leachate fluid	puddle		stream*		length: _____ ft.	
34	Gulls/scavenger birds present	✓ no		yes			
35	Other animal foraging evidence	✓ no		yes*			

36 Date of most recent cap delination by engineer: _____

* = Enter comments on reverse side

Sal Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: July 21, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Aug 16, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Ignato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

Cut trees and cleaned outlet for drainage

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT **DATE:** Sept. 15, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Oct. 12, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of tresspass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Genetti Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Nov. 22, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of trespass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Sal Granato Inspector

Reviewed by Town Board on _____ (date)

_____ Supervisor

TOWN OF WHITESTOWN LANDFILL

NYS Route 69

POST-CLOSURE FIELD INSPECTION REPORT

DATE: Dec. 7, 2022

1	Entrance driveway condition	☑ good	☐ fair	☐ poor		
2	Roadside ditches and culverts under driveway		☑ unobstructd	☐ obstructed*		
3	Facility sign condition	☑ good	☐ fair	☐ poor	☐ missing*	
4	Sign information	☐ current	☐ outdated*			
5	Fence condition	☑ good	☐ fair	☐ damaged*	☐ dormant	
6	Route 69 bluff condition	☑ good	☐ needs repair*			
7	Vegetative Cover	☑ good	☐ poor*	☐ dead	☐ dormant	
8	Other plants present	☐ burdock	☐ thistle	☐ crown vetch		
9	Woody plants	☑ not on cap	☐ present	average diameter _____ in.		
10	Gas vents	☑ unobstructd	☐ obstructed*	☐ missing*	☐ damaged*	
11	Surface erosion	☑ none	☐ minor	☐ needs repair*		
12	Differential Settlement	☑ none	☐ minor	☐ needs repair*		
13	Ditches around landfill	☑ clear	☐ sediments	☐ plugged*		
14	Impact Basin	☑ clear	☐ sediments	☐ plugged*		
15	Bar screens at 24" storm lines	☑ clear	☐ debris	☐ plugged*		
16	Detention Basin	☑ clear	☐ sediments	☐ 6" buildup*		
17	Most recent mowing	_____ (date)				
18	Distance from cap to woods	_____ (average)		_____ (minimum)*		
19	Posted signs	☑ all present on arrival		# replaced: _____		
20	Groundwater monitoring wells	☑ secure with locks		☐ damaged*		
21	Litter present	☑ no	☐ yes	Est. removal date: _____		
22	Evidence of ponded water	☑ none	☐ observed*	☐ suspected*		
23	Fallen Trees	☑ none	☐ present on cap*	date removed: _____		
24	Evidence of tresspass	☐ yes*	☑ no			
25	Evidence of motor vehicle use	☑ no	☐ auto/truck*	☐ motorcycle*	☐ ATV*	
26	Woodchuck/rabbit holes in cap	☑ no	☐ yes	date backfilled: _____		
27	Evidence of lightning strikes	☑ no	☐ yes*			
28	Unauthorized materials present	☑ no	☐ yes*			
29	Unauthorized signs present	☑ no	☐ yes	type: _____		
30	Dead animals present	☑ no	☐ yes*			
31	Oil slicks observed on adjacent waters		☑ no	☐ yes*		
32	Leachate seeps	☑ no	☐ yes*	stain color: _____		
33	Leachate fluid	☐ puddle	☐ stream*	length: _____ ft.		
34	Gulls/scavenger birds present	☑ no	☐ yes			
35	Other animal foraging evidence	☑ no	☐ yes*			
36	Date of most recent cap delination by engineer: _____					

* = Enter comments on reverse side

Inspector

Reviewed by Town Board on _____ (date)

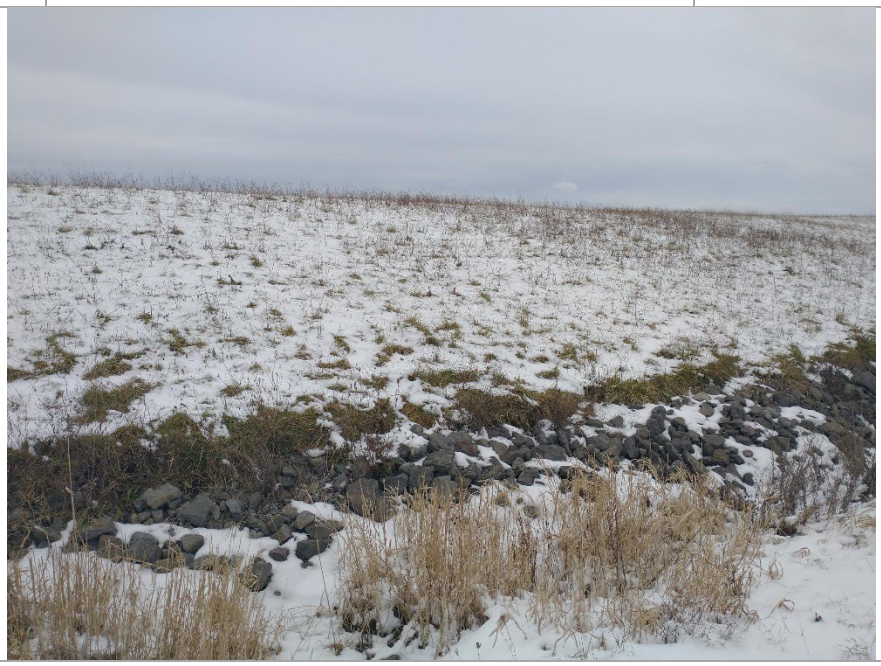
_____ Supervisor

ATTACHMENT 4
PHOTOGRAPHIC LOG

CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
1	12/15/2022

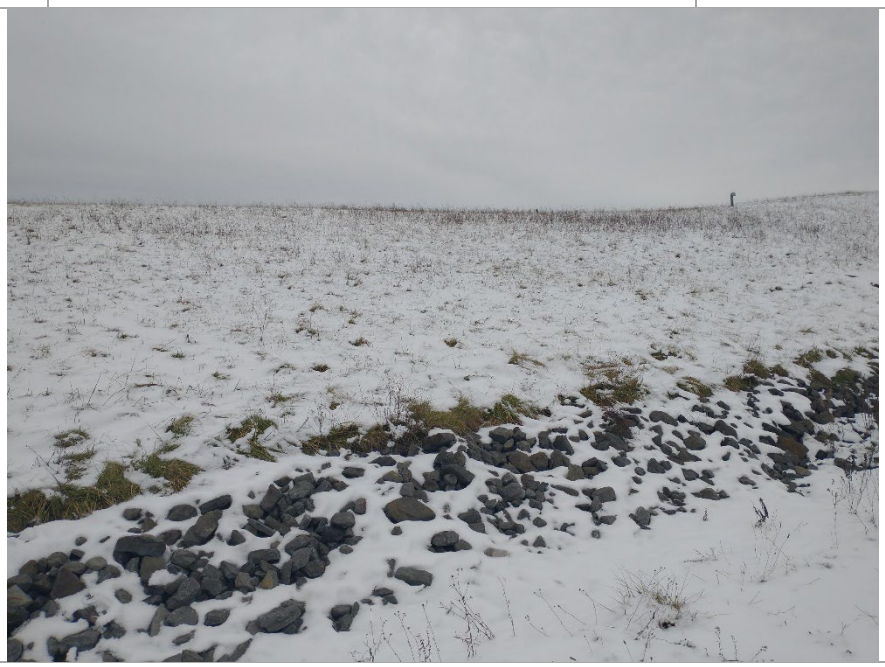
DESCRIPTION
Looking northeast across side slope and drainage swale along perimeter road.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
2	12/15/2022

DESCRIPTION
Side slope with monitoring well visible just right of center, cap in place.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
3	12/15/2022

DESCRIPTION

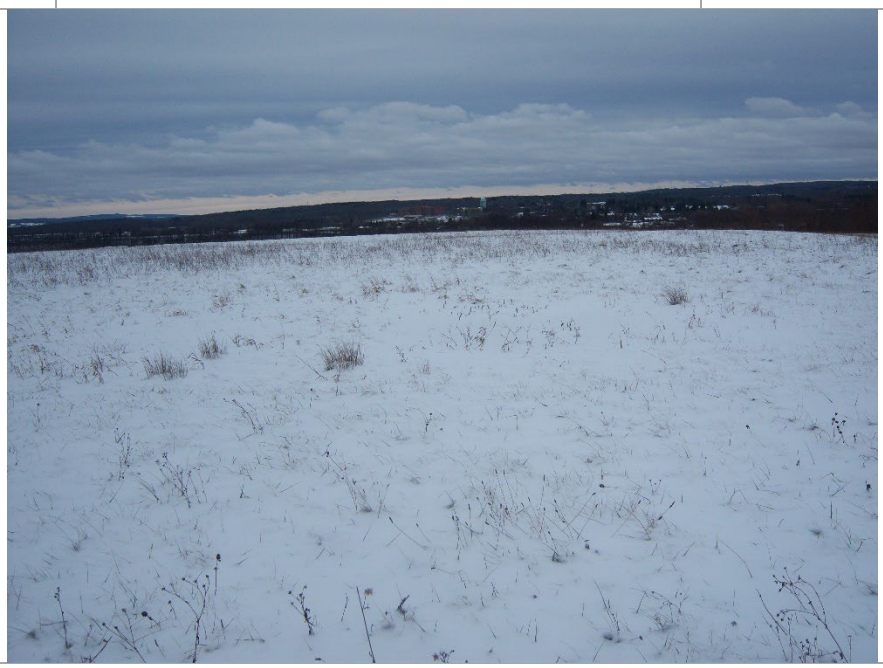
Looking west to Maintenance Garage over potential settlement area, no ponding observed.

CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
4	12/15/2022

DESCRIPTION

Panoramic view looking north across cap; ponding area previously observed appears stable, some ice crust below snow was noted here.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
5	12/15/2022

DESCRIPTION
Looking northwest toward original settlement area that has HDPE underdrain pipe previously installed in soil cover and discharged to perimeter road stone-lined ditch.

CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	9140102347

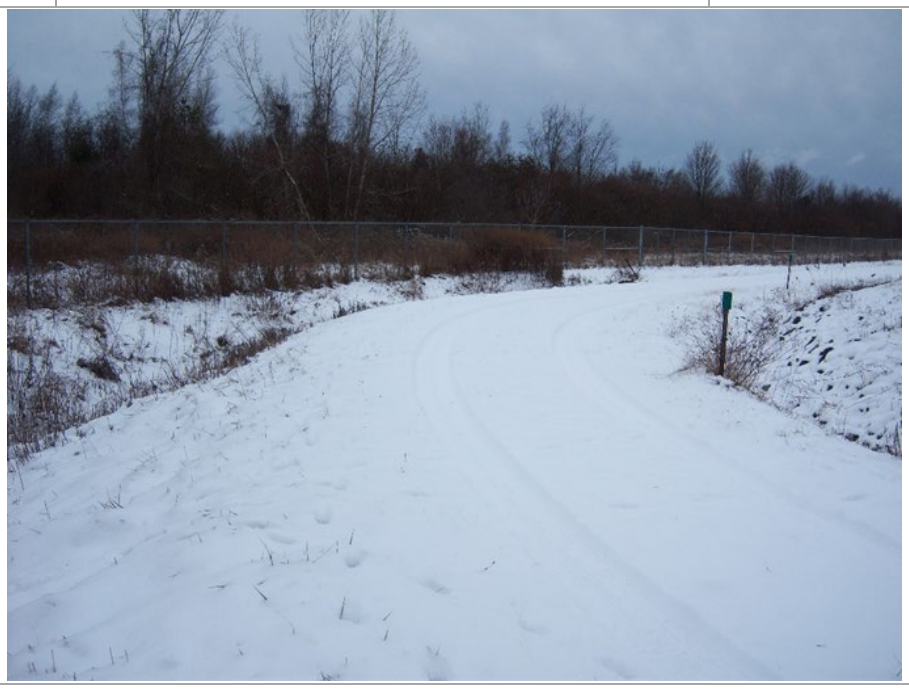
PHOTO NO.	DATE:
6	12/15/2022

DESCRIPTION
Original settlement area, no ice or evidence of ponding observed.

CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
7	12/15/2022

DESCRIPTION
Northeast corner of perimeter road, drainage swale cleared of heavy brush.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	9140102347

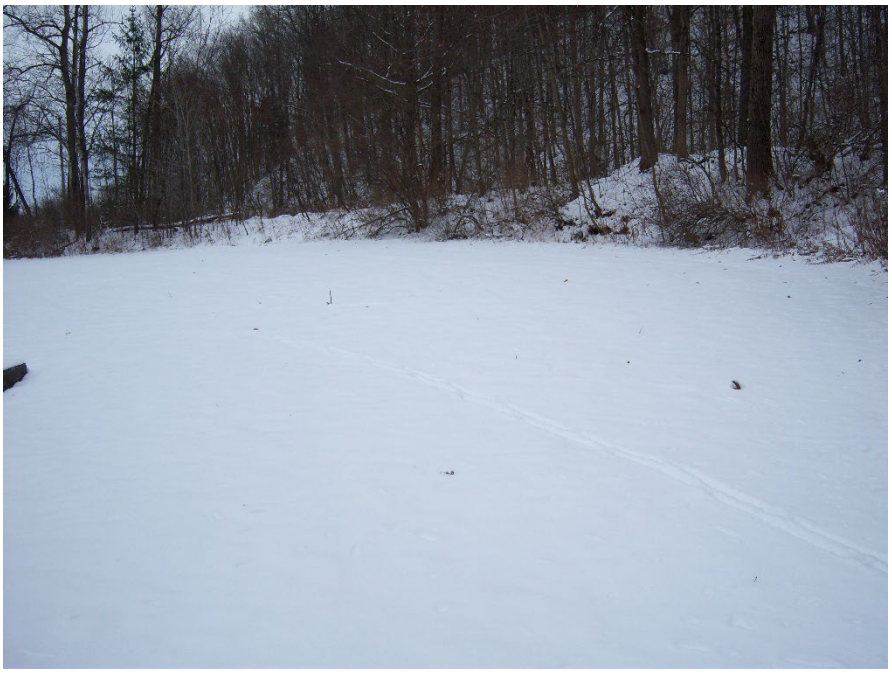
PHOTO NO.	DATE:
8	12/15/2022

DESCRIPTION
Storm inlet structure in good condition with no debris on apron.

CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
9	12/15/2022

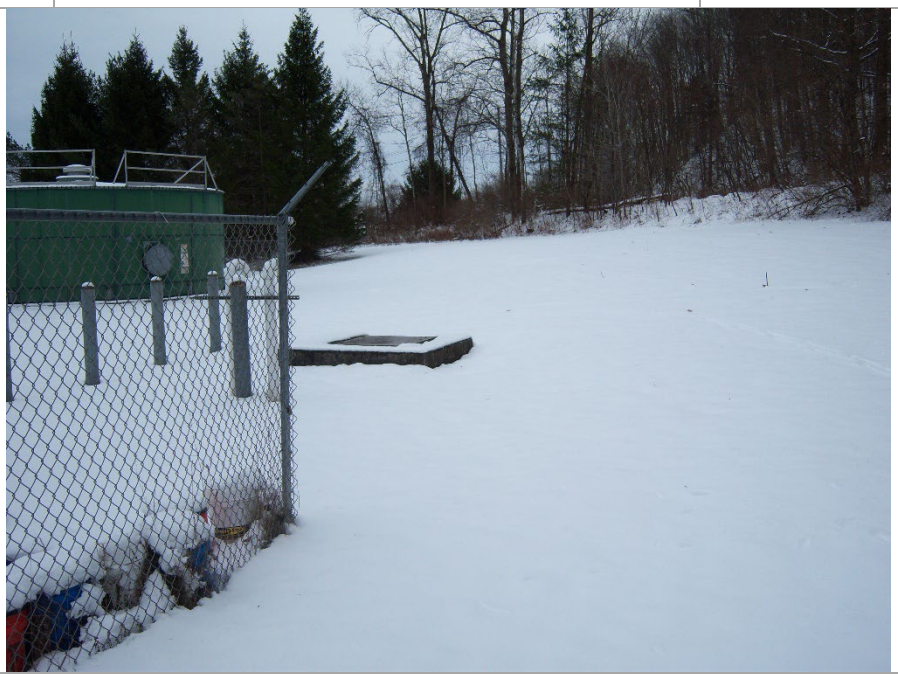
DESCRIPTION
Location of capped Seep #7 along embankment behind Groundwater Collection Treatment site looking east.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	9140102347

PHOTO NO.	DATE:
10	12/15/2022

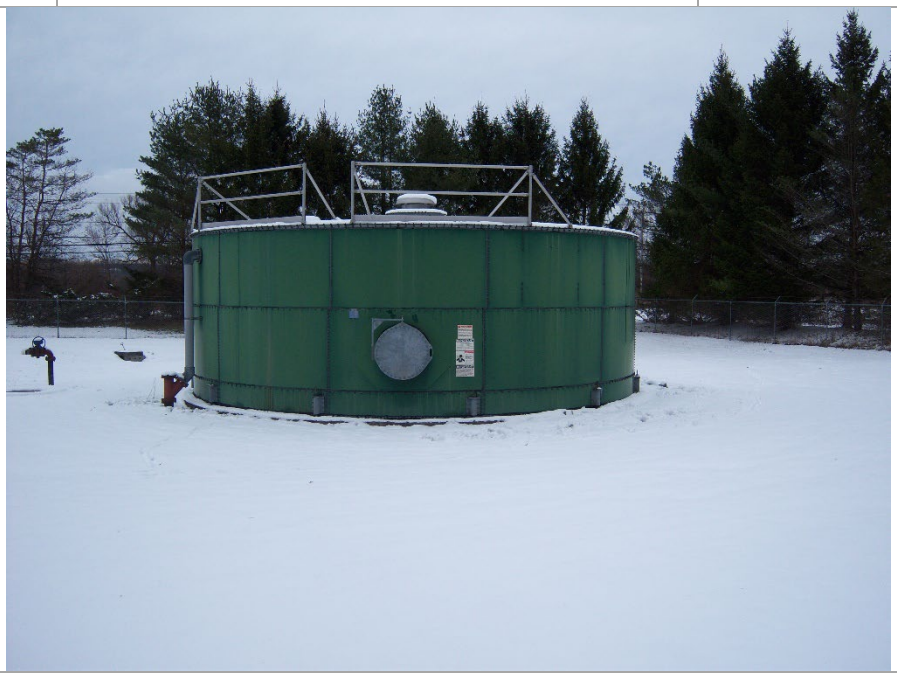
DESCRIPTION
Groundwater Treatment site, not in use. No evidence of breakout from previously capped area.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	1940102347

PHOTO NO.	DATE:
11	12/15/2022

DESCRIPTION
Groundwater storage tank not in use.



CLIENT NAME:	SITE LOCATION:	PROJECT NO.
Town of Whitestown	Whitestown Landfill, Oriskany, New York	9140102347

PHOTO NO.	DATE:
12	12/15/2022

DESCRIPTION
Groundwater settling chamber access hatch and pump station, inlet pipe capped and system is not in use.