

HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 4/14/21

Inspect monitoring wells

*check concrete collars, protective casings, caps and locks for damage

Findings:

All wells were inspected and found to be in good condition. Paths to these wells were still clear of high vegetation.

Inspect landfill cap (including cap vegetation)

*check for signs of erosion (rills, channels, ponding)

*check for signs of vector and vermin damage (holes/tunnels)

*check for the presence of woody vegetation (small trees) - remove any that are found

Findings:

Grass height was satisfactory at the time of inspection (Photo 9). Grass should be cut in June and September.

The soil slump on west slope of landfill was repaired in May 2009 by NYSDOT Maintenance Residency 8-9 personnel. The repaired area should be weed-wacked during the next mowing event in June 2021 (see Photo 12).

Inspect gas vents

*check for physical damage (cracks)

*check for soil cracking adjacent to the vents - use additional soil to seal the full depth of the crack

*check for blockages inside the vents - clear vent with a non-metallic probe (snake)

*check for movement of the gas vent riser - repair (by Contractor) any geomembrane damage near the gas vent

Findings:

Four vents (V-1 to V-4) were inspected (Photos 1-4). V-1 and V-2 had their plastic casing holes repaired with fiberglass epoxy in August 2015. A hole presumed to be from a boring insect or woodpecker was made through the previous fiberglass repair in V-2. The hole will be repaired in Spring 2021. V-3 and V-4 were in good condition (neither cracks nor movement was observed). V-2 leans slightly to the north.

Inspect perimeter fence, gates, and signs

*check for damage - restore damaged fencing and illegible signs

Findings:

The damage done to the southern landfill fence that was observed in October 2020 was repaired with new material by the Town of Harrison (Photos 11, 13, 14). The south fence near the landfill gate was also replaced with new fence.

Previously established Porcelain Berry vines on the south fence were disposed of during the fence replacement

Semi-annual mowing

*check grass height - mow cap grass to a height of no lower than 6 inches twice a year during the growing season.

Findings:

The landfill grass/vegetation was mowed a day prior to this inspection and was within 6" high. The cap should be mowed every June and September.

Comments/Follow-up Work Required

1. NYSDOT will have its tree removal crew cut down any shrubs and small trees that are above the toe of slope of the west, north and east sides of the landfill. This will be done to ensure that no root systems compromise the clay liner and geotextile that make up the cap. Work is proposed to take place in Summer 2021.
2. The main gate to the facility is locked at the end of the day by the Town of Harrison personnel. The well keys and landfill gate key are in the site office desk.
3. Weed whack the west slope repair area and possibly spray with herbicide to prevent future weed growth through the stone repair. Weed whack porcelain berry vines on the south landfill fence and apply herbicide as needed. Herbicide will be applied by a NYSDEC licensed applicator.
4. Re-plug hole in vent V-2 with epoxy.
5. Decommissioning of MW-11 was performed on May 7, 2020 NYSDOT Geotech Department. Well plugging was done in compliance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. MW-11 was related to a former spill that was closed out in 2002 (Spill# 94-07349).



Photo 1: Vent V-1



Photo 2: Vent V-2 (hole in repair patch shown)



Photo 3: Vent V-3



Photo 4: Vent V-4



Photo 5: Well LMW-2



Photo 6: Well LMW-4 area



Photo 7: Well PC-1



Photo 8: Well PC-2



Photo 9: Grass on landfill cap cut to correct height (looking north).



Photo 10: Stream inlet with new fence segment.



Photo 11: South fence (looking east) repair, vines removed.



Photo 12: A portion of the west slope erosion area repair that needs clearing (looking north)



Photo 13: Repaired section of the southern landfill fence near outside storage area (looking west).



Photo 14: Fence repair east of landfill gate.