

HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 10/28/20

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 high at the time of inspection (Photo 9 and 10). 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 13).

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:

A section of fence was damaged on the south side of the landfill (Photos 14-17). It appears that a vehicle/machine pushed soil and woody debris into the fence and collapsed the section. The 8-9 Residency should contact the Town of Harrison Public Works Department to have them repair the damage since the town has their leaf/wood transfer station operations active at the facility. The south fence near the landfill gate appeared to be in fair condition. Portions of the west landfill fence, near the stream inlet (Photo 11), appear to me new. Replacement was possibly done by the neighboring Westchester County Airport.

Porcelain Berry vines were overgrown on the fence in this area during this inspection (Photo 12). This is a very invasive plant. Herbicide should be applied on the vegetation in May/June before fruit begins to form. Another application may be needed in July if there is any re-growth.

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 length greater than 1' high. It appears the fall mowing was not performed. Mowing should occur in spring once the landfill cap has dried from winter snow thaw to prevent cap damage from the mower. 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, looking south towards site building.



Photo 10: Grass on landfill cap needs cutting (looking north).



Photo 11: Stream inlet with new fence segment.



Photo 12: South fence (looking east) needs vine herbicide.



Photo 13: A portion of the west slope erosion area repair that needs clearing (looking north)



Photo 14: Damaged section of the southern landfill fence near outside storage area (looking north).



Photo 15: Fence damage closeup (looking west).



Photo 16: Fence damage closeup (looking south).



Photo 17: Fence damage closeup (looking south)