

HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 4/27/22

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. Burrow found under southwest area of the fence (Photo 14). No damage observed on landfill cap.

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. A patch was applied in December 2021 but appeared to have fallen off due to weather. A different product was purchased and will be applied around June 2022. 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:

There is an animal burrow found under the southwest area of the fence (Photo 14).

Currently there is no observable damage to the landfill perimeter fence

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 week 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. Unpredictable wet weather postponed the removal due to the cap and liner being saturated to support equipment needed for the work. Work is proposed to take place in Summer 2022 during a period of dry weather.
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. Herbicide will be applied by a NYSDEC licensed applicator.
4. Re-plug hole in vent V-2 with epoxy.



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 northeast).



Photo 10: Stream near the northeast corner of the property.



Photo 11: South fence (looking east).



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



Photo 13: Outside of southern gate, (looking west).



Photo 14: Animal burrow under south fence on landfill cap (looking southwest).