

HARRISON SUB-RESIDENCY SEMI-ANNUAL FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 10/14/16

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 need to be weed-wacked (dense vegetation in the way of some of them).

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 10). The tire ruts that were created by vehicle tires offloading mower equipment were filled in and reseeded in June 2016 (see Photo 14).

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 2016 (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 in the vicinity of 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 and were still in good condition. 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 south fence near the landfill gate appeared to be in fair condition. Porcelain Berry vines have overgrown on the fence in this area (Photo 12). This is a very invasive plant. Herbicide should be applied on the vegetation in May before fruit begins to form. Another application may be needed in July if there is any re-growth (Photo 15).

Semi-annual mowing

*check grass height - mow cap grass to a height of no lower than 15 cm twice a year during the growing season.

Findings:

The grass appeared to be at a satisfactory height. The cap should be mowed every June and September.

Comments/Follow-up Work Required

1. Grass has established in the bare area to the west of the building near the edge of the black top (Photo 16). Remove silt fence in late spring.
2. NYSDOT Maintenance Residency 8-9 repaired and re-seeded the ruts caused by vehicles delivering equipment used to cut vegetation on and surrounding the landfill cap.
3. On February 19, 2015, the Town of Harrison accepted the terms of a variance granted by the New York City Department of Environmental Protection (NYCDEP) permitting the location of a solid waste management facility (leaf transfer operation) within 100 feet of the Kensico Reservoir and a reservoir stem. In a letter dated February 22, 2016, from NYCDEP to the Town of Harrison, NYCDEP determined that the *Notice of Violation* served by NYCDEP to the Town on October 13, 2013, has been satisfactorily resolved. This was based on the variance mitigation measures installed by the Town, including improvements made to the site's storm water drainage system.
4. Weed-wack the repaired area on the western landfill slope and paths leading to the area's monitoring wells.
5. Use herbicide to remove invasive plants on the south fence.
6. The well keys are in the office desk. The main gate to the facility is currently locked by on-site personnel at the end of the day. The gate to the landfill is kept closed and locked.



Photo 1: Vent V-1 (hole repair shown)



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



Photo 3: Vent V-3



Photo 4: Vent V-4



Photo 5: Well LMW-2



Photo 6: Well LMW-4 (area is overgrown)



Photo 7: Well PC-1



Photo 8: Well PC-2



Photo 9: Well MW-11



Photo 10: Grass on landfill cap



Photo 11: Stream inlet



Photo 12: South fence (looking east)



Photo 13: A portion of the west slope erosion area repair that needs to be cleared



Photo 14: Repaired ruts caused by vehicles carrying equipment



Photo 15: Invasive plants establishing in area west of site building at edge of asphalt



Photo 16: Grass has established in front of the facility