

HARRISON SUB-RESIDENCY FIELD INSPECTION

Name of Inspector(s): Christopher Kappeller

Date: 4/18/12

Semi-Annual

Inspect monitoring wells

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

Findings:

The wells are in satisfactory condition. The steel well casings are secured with locks, with one exception: the key in the lock on PC-1 is broken off inside and the tab on the casing cap that the lock went through has been cut through. NYSDOT's hazardous waste consultant did this to remove the rust-frozen lock so they could obtain a water sample during the last periodic 15-month sampling cycle in April 2011.

LMS-4 was located during this inspection. The well location was previously lost due to storm debris that concealed the well head.

The lock on LMW-2 was rusted shut and could not be opened.

All well locks were oiled.

Several wells have been properly closed since the last inspection in early November 2011:

GP-1 – November 29, 2011

GP-2 – November 29, 2011

MW-1 – May 2, 2012

MW-12 – May 2, 2012

MW-13 – November 29, 2011

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 good at the time of inspection. The cap was mowed on 11/7/2011 (Photo #13).

The soil slump on west slope of landfill was repaired in May 2009 by NYSDOT Residency 8-9 personnel. The repaired area is still in good condition (Photos #16 & 17), but overgrown vegetation should be weed-wacked this Spring (soon!).

There is an area of orange iron bacteria staining and floating organic film on the water just east of PC-2 (Photo #18). No questionable odors were noted.

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 (V1 – V4) were inspected and generally found in good condition (visually unlocked, neither cracks nor movement was observed) (Photos # 1-4). V-2 leans slightly to the north.

Inspect perimeter fence, gates, and signs

- *check for damage - restore damaged fencing and illegible signs

Findings:

Damage was present to the south fence near the landfill gate during this inspection and needs to be repaired. (Photo #15)

Twice a year during growing season (end of June to Mid-September)

Mow cap grass to a height of no lower than 15 cm

Findings:

The entire grass cover of the landfill was last mowed the day before the inspection on November 7, 2011. The cap should be mowed every June and October.

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Comments/Follow-up Work Required

Carryover from last inspection

1. The cap should continue to be mowed every June and October to control grass height.
2. Overgrown vegetation on the west slope of the landfill should be removed/weed-wacked during the next cap mowing. NYSDOT Maintenance is aware of this.
3. The damage to the south fence near the landfill gate needs to be repaired. Harrison DPW will be contacted to fix this.

Additional Comments

1. 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.



Photo 1: Vent V-1



Photo 2: Vent V-2



Photo 3: Vent V-3



Photo 4: Vent V-4



Photo 5: Well LMW-2



Photo 6: Well LMW-4



Photo 7: Well PC-1 with broken key in lock)



Photo 8: Well PC-1



Photo 9: Well PC-2



Photo 10: Well MW-11



Photo 11: Well MW-12 later removed on 5/2/12.



Photo 12: Well MW-13 casing removed from ground on 11/29/11.



Photo 13: Grass on landfill cap



Photo 14: Stream inlet



Photo 15: South fence damage (looking east)



Photo 16: West slope erosion area repair (looking north)



Photo 17: West slope erosion area repair (looking south)



Photo 18: Orange staining near PC-2