OPERATION & MAINTENANCE PLAN FOR THE HARRISON SUBRESIDENCY LANDFILL & PETROLEUM SPILL AREA

July 2005

Quarterly (DOT):

1. Inspect monitoring wells
2. Landfill cap (incl. cap vegetation) inspection
3. Inspect landfill gas vents

Semi-annual (DOT)

4. Inspect perimeter fence, gates, and signs

Every 5 Quarters (Consultant)

5. All of the above (DOT does not perform the 5-Quarter inspection)
6. Measure water level from monitoring wells

Landfill Area Only:

7. Vector and vermin inspection
8. Perimeter drainage swales
9. Gas monitoring at gas vents and property line perimeter
10. Sample all the media (See ***Note*** *below for groundwater samples*) for TCL VOCs, SVOCs, TAL (incl. cyanide and chloride), pesticides and PCBs (2 rounds & re-evaluate). Ground- & surface- water: Temperature, turbidity, pH, and specific conductivity

    Note: *Groundwater*: filter samples for TAL-Metal analyses
    Surface Water: unfiltered samples; filter samples for TAL-Metal analyses if ***samples have been significantly disturbed*** (e.g., the consultant dug a hole to collect a sample and water turbidity resulted from digging the hole; no unfiltered "disturbed" samples are to be collected for TAL-Metal analyses)

Petroleum Spill Area Only:

11. Sample groundwater (1st round only) for DEC-STARS Parameters (Table-1; STARS-Guidance), Cl, Na, specific conductivity, and natural attenuation parameters: DO, Eh, pH, NO3, SO4, T, TOC, CO2
    (Although this guidance is for soil media, Table-1 is an adequate comprehensive VOC list for petroleum compounds in groundwater)
12. Subsequent rounds: Sample groundwater for BTEX, MTBE, and natural attenuation parameters. Parameters can be modified based on discussions with NYSDEC

Other (DOT):

13. Twice a year during the growing season (e.g., End of June, Mid September): Mow cap grass to a height of no lower than 15 cm.
14. After major rainfall events (5-year storms): inspect cap and drainage swales

- ***Well purge water can be discharged immediately downgradient from the well***