

Appendix E

Landfill Monitoring – Non-Hazardous Waste Landfill

**The Collection of Landfill Monitoring Data at the PIN-3 Lady
Franklin Point Site – 2006 Report**

APPENDIX E Non-Hazardous Waste Landfill

E.1 Non-Hazardous Waste Landfill

E.1.1 Landfill Summary

The Non-Hazardous Waste Landfill is located north of the airstrip, approximately 800 m from the main station facilities and covers an area of approximately 5000 m² and an estimated depth of 2 m. The landfill configuration is shown on Figure E-1.

The design of this landfill includes perimeter berms, and placement of a granular fill cover over the material. The material in the landfill consists of DCC Tier I and Type A hydrocarbon (lubricating oil and greases) contaminated soil. Four groundwater monitoring wells were installed at the landfill perimeter.

E.1.2 Visual Monitoring

Based on the visual inspection, the Non-Hazardous Waste Landfill area appears to be in good condition. There are no visible signs of frost action or differential settlement. The condition of the side slopes and landfill cap appear consistent with the site photos available from the previous inspection in 2005 and show no evidence of problematic or degraded conditions. Minor rutting, which appears to be associated with equipment traffic, was noted at several locations (refer to Photographs 8, and 33). None of the ruts appear to warrant remediation at this time and show no evidence of recent degradation.

Damp, organic rich soil was observed adjacent to the toe of the landfill at several locations along the toe of the west and south slopes (refer to Photographs 6, 7, 9 and 15) where the landfill encroaches onto muskeg. There was no indication of seepage, slope instability or slope movement at any of these locations. The moist soil conditions are most likely associated with recent precipitation and a high water table.

Four monitoring wells are present at this landfill (MW-13, MW-14, MW-15 and MW-16). They were not sampled; however, all casings and locks were visually inspected and appeared to be in good working order with no visible indications of distress.

The overall performance of the landfill is considered acceptable. There is no as-built survey available for this landfill.

E.1.3 Soil Sampling

Soil sampling was not scheduled for the 2006 monitoring year. The next soil sampling event will be in 2007.

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E.1.4 Groundwater Sampling

Groundwater sampling was not scheduled for the 2006 monitoring year. The next groundwater sampling event will be in 2007.

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Figure E-1 Existing Airstrip Landfill

Appendix E Attachments

E1 Site Condition/Visual Inspection Records

E2 Geotechnical Inspection Photographic Records

E3 Field Notes

Appendix E1

Site Condition/Visual Inspection Records

Appendix E2

Geotechnical Inspection Photographic Records

Appendix E3

Field Notes