



## 9.0 SITE CLOSURE PLAN

### 9.1 General Site Closure Plan

Upon ceasing to use any of the diversion facilities, they will be decommissioned and closed prior to a change in use or sale of the property. The decommissioning and closure of the diversion facilities will include the following procedures:

- A closure plan will be completed six months prior to Site closure;
- All waste material storage areas will be emptied and the waste sent for disposal;
- All on-Site equipment will be removed from the Site and either sold or reused at another Taggart Miller facility;
- All floors will be swept and, if necessary, power washed and any wastewater would be collected and disposed in accordance with O. Reg. 347 (MOE, 1990); and,
- The exterior portions of the Site will be cleaned of any litter.

Prior to closure of the landfill a closure report will be submitted to the MOECC for approval. As long as the monitoring program continues to demonstrate acceptable landfill performance, both during the operating period and post-closure, then the contemplated approach to Site closure will be to cover the waste with a minimum thickness of earth material and vegetation. It is acknowledged that it can be beneficial at some natural attenuation sites to have a lower permeability final cover. However, at this Site the currently contemplated approach is to flush contaminant concentrations out of the waste as quickly as possible to reduce the period that reliance on engineered collection and treatment systems is required. In other words, allowing infiltration through the cover will promote the decomposition of the waste mass, thereby reducing the contaminating lifespan of the landfill, and allowing leachate collection to terminate at some period post-closure when residual leachate quality permits. Should a lower permeability cover be desired for any reason in the future, the MOECC will be consulted.

#### 9.1.1 Landfill Final Cover and Seeding

The proposed final cover for the landfill will consist of a 600 millimetre thick layer of general earth material and a 150 millimetre thick layer of imported material capable of supporting vegetation growth (i.e., topsoil). The general earth material for the final cover can be permeable since there is a leachate collection system in place (MOE, 1998a). By increasing infiltration to the landfill, the contaminating lifespan of the landfill will be reduced. The landfill will then be hydroseeded with a grass seed mixture in order to minimize side slope erosion. Erosion and vegetation damage resulting from large storm events will be repaired as required.

In addition, it is proposed that PHC impacted soils could be used in the final cover within the 300 millimetres of cover immediately adjacent to the waste. The PHC impacted soils will have been tested at the source in order to verify that the waste is non-hazardous, in accordance with O.Reg. 558/00 (MOE, 2000), before they are accepted at the Site. The soils will be treated if deemed necessary to reduce PHC concentrations prior to use in the final cover.



### **9.1.2 Post-Closure Monitoring, Reporting and Maintenance Requirements**

Monitoring and reporting of groundwater, surface water, LFG and leachate pre-treatment facility quality should continue after Site closure for a period dependent on the ongoing monitoring results. The Site will be maintained in order to prevent erosion and any undesirable off-Site environmental impacts.

### **9.1.3 End Use**

Possible end uses for the closed Site will be considered as part of preparation of the closure plan.