

BACKGROUND

NORTH SIMCOE LANDFILL (SITE 41)



Current Status

- Environmental Assessment, Environmental Protection Act, Development and Operations approval and the Permit to Take Water have been granted from the Ministry of the Environment.

Estimated Lifespan

- The estimated lifespan based on the Development and Operations Report is 34 years. It is anticipated that with the success of diversion initiatives, the lifespan could be extended. Development will occur in 6 phases. Approval has been received for the first 5 phases.

Construction

- Preliminary construction on site began in June 2008 and construction of the first cell began in spring 2009. Weather permitting, the County anticipates opening the site in the fall of 2009.

Site Size

- The licensed disposal area is 20.7 hectares. The volume of waste and daily cover allowed is 1.613 million cubic metres.

Service Area

- The facility will serve the municipalities of Tiny, Tay, Midland and Penetanguishene.

Haul Routes to the Site

- County Road 27 via Baseline Road and Concession 2 or County Road 6 via Concession Road 2. Upgrades to sections of Baseline Road and Concession 2 are anticipated to be undertaken in the fall of 2009.

Main Protective Features

NATURAL

- 3.6 to 12 metres of **natural clay** which restricts the upward water flow to just 11 millimetres per year.
- **Upward hydraulic gradients** which means groundwater is under upward pressure forcing water into the site rather than allowing potential contaminants to enter the groundwater.

ENGINEERED

- **HDPE Liner** - a thick plastic barrier used in modern landfill design to prevent leachate (water which has been in contact with waste) from leaving the site. In this case, the liner also serves the dual purpose of reducing water under upward pressure from entering the site.
- **Leachate Collection System** - a system to continuously remove leachate from the site for off-site treatment at a waste water facility.
- **Monitoring Network** - an extensive system of groundwater wells for frequent monitoring to ensure protective features are functioning as designed.



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