

Landfill Re-Engineering Project

Summer 2017

Project Update

Re-Engineered Landfill Completed

The City of Barrie began upgrading the City's landfill site in 2008 to meet current engineering and environmental standards and for the long-term protection of groundwater and surface water. This Landfill Re-Engineering Project included a number of upgrades to improve the environmental performance of the landfill including installation of a liner, leachate collection and landfill gas systems.

The Project involved the reclamation of waste from the western two-thirds of the landfill and the construction of new lined cells. Six new cells have been constructed and approximately 1,600,000 cubic metres of garbage has been processed. The new cells are lined with plastic (high density polyethylene) and geosynthetic clay liners that prevent contaminated water,



or leachate, from entering into groundwater below the landfill. This Landfill Re-Engineering Project has increased the landfill lifespan by 18 years, to approximately 2035 and enhanced environmental performance.

A Landfill Gas Collection System and Flare were installed in 2011 to collect and burn landfill gases that are released as garbage decomposes. This system reduces greenhouse gas emissions and assists in controlling odours. Ongoing expansion and installation of the landfill gas collection pipes will occur as the new cells are filled with garbage in time.

In the fall of 2015 the construction of six new stormwater ponds, associated channels and vegetation restoration in the western part of the site were completed. The purpose of the stormwater ponds are to control stormwater runoff from the covered parts of the landfill during major storm events.

New Recycling Depot Construction

In May 2017, the construction of a new Recycling Depot started at the landfill site near the entrance at Ferndale Drive North. As a result, the Household Hazardous Waste (HHW) Depot was temporarily moved from the lower gate to the upper gate, beyond the scale house. To mitigate potential longer wait times, HHW collection will occur twice per week on Wednesdays (Noon to 7 PM) and Saturdays (9 AM to 4 PM) from May 3 to October 4, 2017 at the upper gate entrance.

The new Recycling Depot will open to the public in late 2017 for the drop-off of recycling materials and HHW.

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Groundwater Collection Gallery Upgrades

A drain, or “Gallery” originally constructed to the east of the landfill in 1973 captures groundwater from under the oldest part of the landfill to protect the quality of water in Dymment’s Creek. This creek begins just south of the landfill, crossing Edgehill Drive and ultimately flows into Kempenfelt Bay near Centennial Park. The Gallery was extended in 2002 and the northern half was upgraded in 2008 to improve collection of groundwater impacted by leachate. In the summer of 2017, the southern part of the Gallery will be upgraded to maintain the effectiveness of this system in protecting the quality of the creek.



Planned Gallery Upgrade Location

Thank You for Your Support and Feedback

We appreciate the support we have received from our neighbours since the Project began in 2008. Your feedback is important to us. The City will continue to manage the landfill operations to minimize impacts on the community and provide residents with a modern and environmentally secure landfill and waste diversion facility. We encourage you to provide any questions or comments you have. In particular, residents are encouraged to report off site odours related to City Landfill Operations staff at 705-739-4220 ext. 4516 so that work can be altered appropriately. If you would like to arrange a tour of the Landfill Site, or a one-on-one meeting with staff please contact: Mark Vandergeest at (705) 739-4220 ext. 5829, or by email at Mark.Vandergeest@barrie.ca.

More information is also available at barrie.ca/LandfillProject.