

Environmental Assessment (EA) of the Proposed Expansion of the Boyne Road Landfill

WELCOME to Open House #1

We want your input!

You are invited to browse the display material and
talk to our staff and consultants

Please fill out a comment form so that we can
include your questions or comments in the EA
document

Comment forms are located at the sign-in table

About the Site



- The Boyne Road Landfill Site is located south of Boyne Road, approximately 1.5 kilometres east of the Village of Winchester, has been operating as a licensed landfill facility since 1965.
- The Site is located in a rural area. The nearest residence is over 500 metres away and there are only approximately 5 residences within a 1 kilometre radius of the Site.



- The Landfill Site is authorized to accept waste only from residents, institutions and businesses within the Township of North Dundas.
- Diversion activities at the Site: a municipal waste recycling facility for metals, plastics, cardboard and newspapers; a tire recycling program; a household hazardous waste depot; and a waste electrical and electronic equipment depot are available for the Site's users.

Landfill Site Operations

- The landfill operates as a Natural Attenuation Site where the natural setting is relied upon to protect off-Site groundwater. Over the years, the Township has acquired lands and easements around the site to ensure that off-Site groundwater quality complies with the province's Reasonable Use Guideline (RUG).
- Contaminant attenuation zones (CAZ) are located to the north and west of the disposal area; buffer land is located to the east and south of the disposal area.
- Refer to Board 5 for a representation of existing CAZ and buffer lands around the landfill property boundaries.



- Approved landfill footprint: 8.1 hectares.
- Approved landfilling capacity: 395,000 cubic metres.
- Annual fill rate in recent years: 15,000 to 19,000 cubic metres per year (compacted waste and daily cover).
- Annual groundwater and surface water monitoring and reporting has been ongoing at the site for about two decades to assess the site's environmental compliance.
- The site is currently interpreted to be operating in compliance with provincial guidelines with regards to landfill leachate impacts to groundwater and surface water.

Waste Management Alternatives

- In late 2014 it was discovered that the Site had exceeded its approved waste disposal capacity, based on the original 1971 license application.
- In 2015, the Township completed a long-term waste management alternatives evaluation (WMAE) to address the overfill situation at the Site.

ALTERNATIVE 1: LANDFILL CLOSURE AND EXPORT OF WASTE FOR DISPOSAL

- Continue diversion activities at the Site
- Establish a waste transfer facility at the Site
- Export waste for disposal at the Eastern Ontario Waste Handling Facility (Lafleche landfill facility)
- Close the landfill portion of the Site

ALTERNATIVE 2: LANDFILL SITE EXPANSION

- Obtain approval from the Ministry of the Environment and Climate Change for an increase in the disposal capacity of the Site (Environmental Assessment required)
- Continue providing diversion and disposal services to rate payers

ALTERNATIVE 3: ESTABLISH A NEW LANDFILL SITE IN THE TOWNSHIP

- Establish a disposal site at a new location within the municipality
- Possibility to share capital expenditures and financial liability with neighbouring municipalities in the case of a new, more regional-scale waste disposal site

ALTERNATIVE 4: ALTERNATIVE WASTE MANAGEMENT TECHNOLOGIES (THERMAL TREATMENT, E.G., ENERGY FROM WASTE FACILITY)

- Obtain approval to establish an Energy From Waste Facility at a new location within the municipality (Environmental Assessment required)
- Close the landfill portion of the Site
- Possibility to share capital expenditures and financial liability with neighbouring municipalities in the case of a new regional-scale waste facility

Proposed Project

- The Township Council decided to pursue Alternative 2 – Landfill Site Expansion (Resolution No. 4, Council Meeting, November 10, 2015).
- Planning period: 25 years after receiving all required approvals.
- Volumetric landfill expansion considered: 642,500 cubic metres (including existing overfill volume already in place)
- The proposed area for landfill expansion is shown below, as well as the existing CAZ and Buffer lands.



Terms of Reference

The Terms of Reference (TOR) is the first step in the EA application process. It is a framework or work plan for the preparation and evaluation of the EA.

The Township of North Dundas will draft the TOR in consultation with local residents, businesses and other stakeholders.

The TOR identifies:

- The proponent (the Township)
- The project
- Previous studies and activities detailing the rationale for the project and the alternatives considered
- Studies required to describe existing environmental conditions
- Methods to estimate and assess potential effects of the project on the environment
- Alternative methods for implementing the project
- Consultation activities throughout the TOR preparation process and how consultation will be conducted during the EA

The Township of North Dundas will submit the TOR to the Ministry for review and a decision.

The decision to approve or reject the TOR, or approve the TOR with conditions, is made by the Ontario Minister of the Environment and Climate Change.

Once the TOR is approved, the Township of North Dundas can begin to prepare the EA.

EA Process and Consultation

Open House #1 March 7, 2017

- Introduction of the project
- Overview of the EA process and consultation

Open House #2 Summer/ Fall 2017

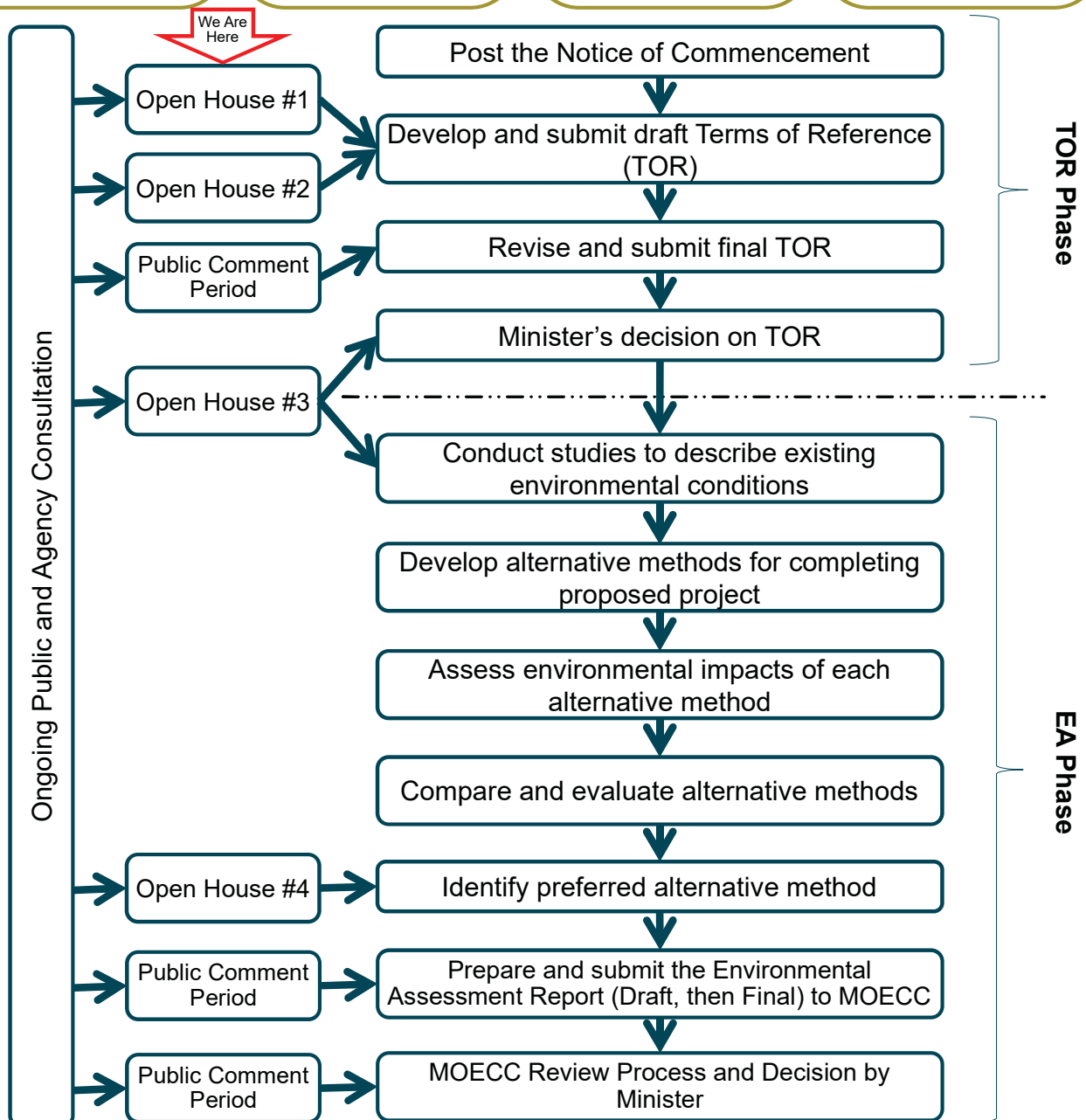
- Present Draft Terms of Reference

Open House #3 2018

- Present Approved Terms of Reference
- Overview of the EA activities

Open House #4 2019

- Predicted effects of expansion
- Comparison of expansion alternatives
- Identification of preferred alternative



Proposed EA Criteria

- Various aspects or components of the environment will be studied and used to assess potential effects of alternative ways that the landfill expansion project could be implemented.
- The following table lists proposed environmental, socio-economic and technical criteria for this EA.
- Please tell us what is important to you, either using the provided markers on this board or using the handouts.
- Is there anything we have missed? Please add them to a handout.

| Proposed Assessment Criteria | | | | |
|-----------------------------------|--|----------------|-----------|----------------|
| Component | Sub-Component | Very Important | Important | Less Important |
| Environmental Components | | | | |
| Atmosphere | Air quality (including greenhouse gases and odour) | | | |
| | Noise | | | |
| Hydrogeology | Groundwater quality | | | |
| Surface Water | Surface water quality | | | |
| | Surface water quantity/flow | | | |
| Biology | Terrestrial ecosystems | | | |
| | Aquatic ecosystems | | | |
| Socio-Economic Components | | | | |
| Archaeology and Cultural Heritage | Cultural heritage resources | | | |
| | Archaeological resources | | | |
| | Cultural landscapes | | | |
| Land Use | Current and planned future land uses | | | |
| | Agricultural land and agricultural operations | | | |
| Socio-economics | Continued service to residents | | | |
| | Landscape and views | | | |
| Technical Components | | | | |
| Site Design and Operation | Site design and operational characteristics | | | |

Next Steps

- The next steps for the Terms of Reference (TOR) are:
 - Over the 2017 summer we will consult with the Ministry of the Environment and Climate Change and members of the Government Review Team to develop the draft TOR.
 - In the 2017 summer/fall we will host a second open house where we will discuss and make available the proposed contents of the draft TOR for your review.
 - After we receive your comments on the draft TOR, we will consider, address and incorporate your comments in the final TOR.
 - The Township will submit the TOR to the Ministry in late fall or early winter of 2017.
 - There will be another opportunity for you to provide comments on the TOR after it is submitted.
 - We will post information on the project website as it becomes available:

<http://northdundas.com/landfillea/>

- The Minister of the Environment and Climate Change will make a decision on the TOR.
- Once the TOR is approved, the Township can begin to prepare the EA.

How to Get Involved

Attend an Open House

- A second open house is proposed for the summer/fall of 2017 to discuss the draft Terms of Reference.
- Details of the open house will be posted in the local media and on the project website.

Visit the Project Website

<http://northdundas.com/landfillea/>



- Watch the project website for news and updates.
- Submit any comments or questions at this event in a comment sheet or via the email at the addresses provided:

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Join the Distribution List

- If you would like to be notified of any project updates, please let us know and provide either an email address or your mailing address.

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