

## Frequently Asked Questions (FAQs #7)

### How much waste will the landfill expansion receive?

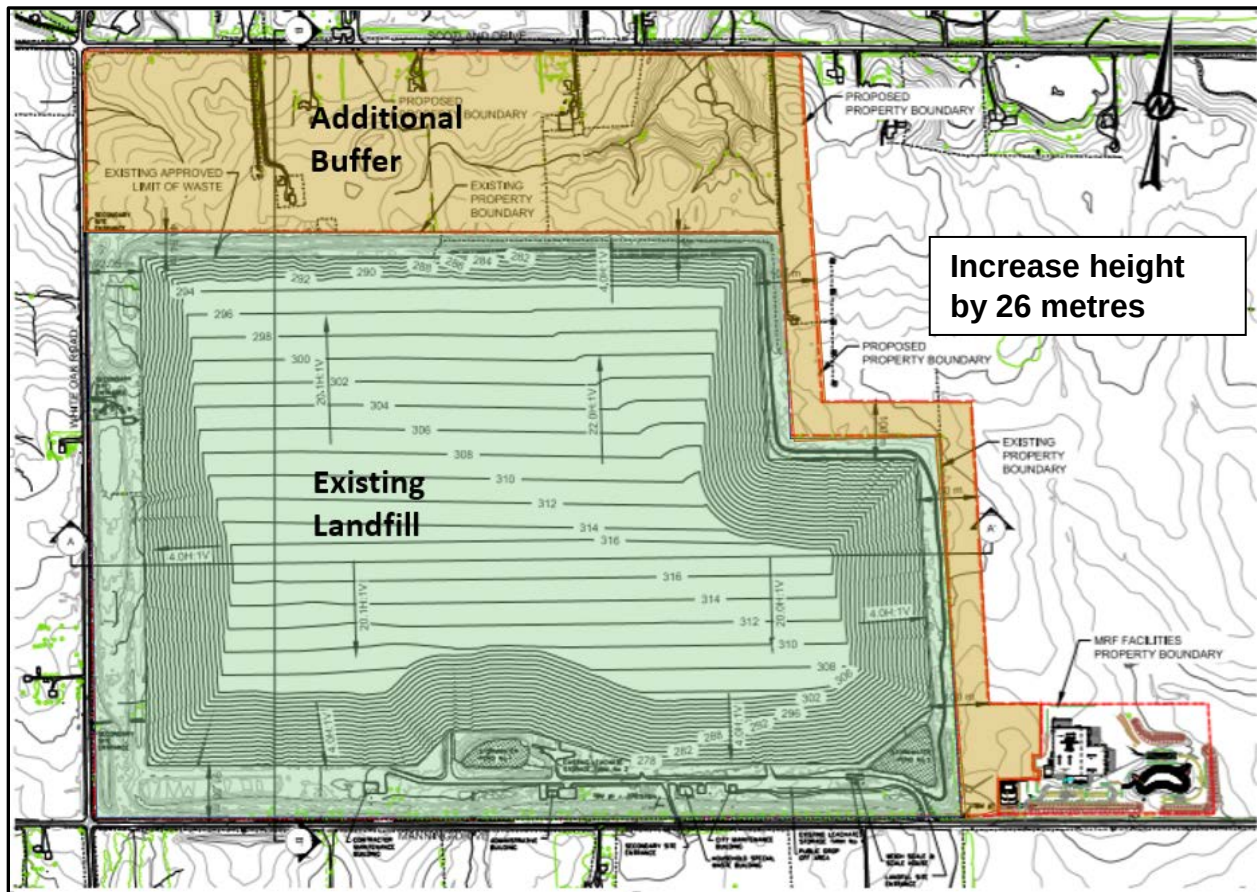
The design capacity for the proposed landfill expansion over the 25 year planning period is 9.6 million tonnes including 0.5 million tonnes from neighbouring municipalities. The space required to hold the estimated waste quantities is approximately 13.8 million cubic metres.

For comparison purposes, the existing approved capacity of the W12A Landfill is approximately 10 million tonnes.

### What landfill expansion alternatives are being considered?

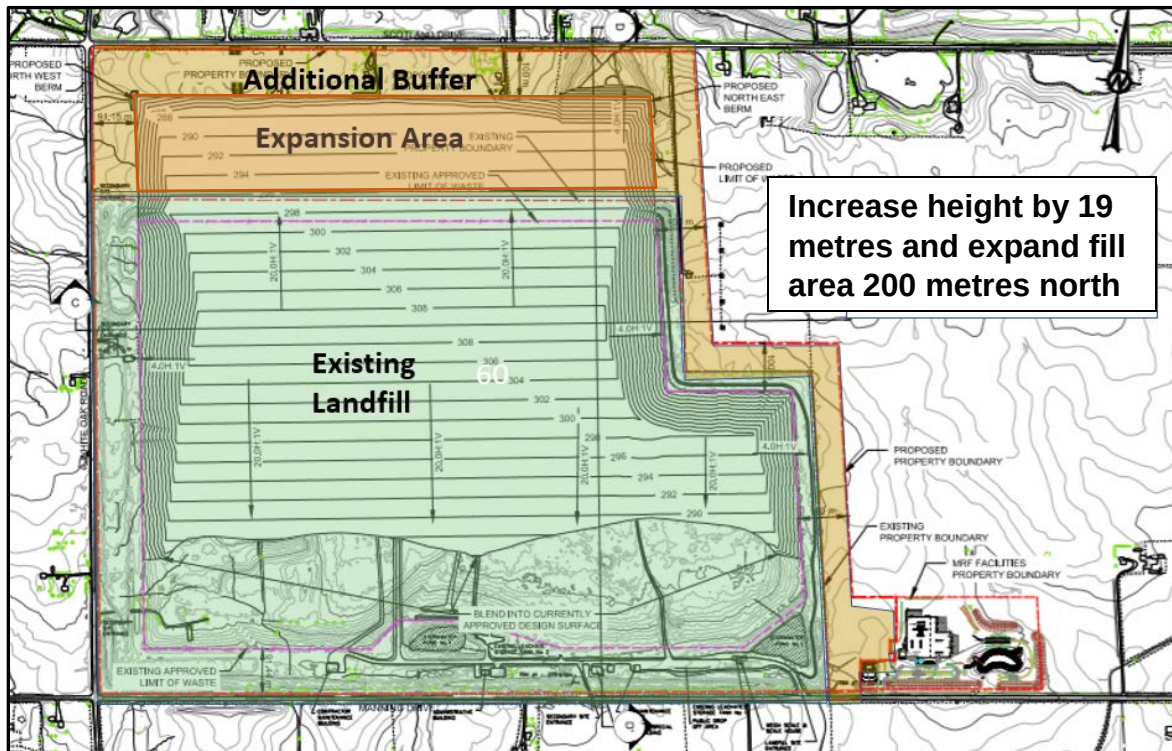
Three landfill expansion alternatives ("Alternative Methods") are being considered and are presented below and on the following page. Alternative 1 has been identified as the preliminary preferred alternative.

#### Alternative #1

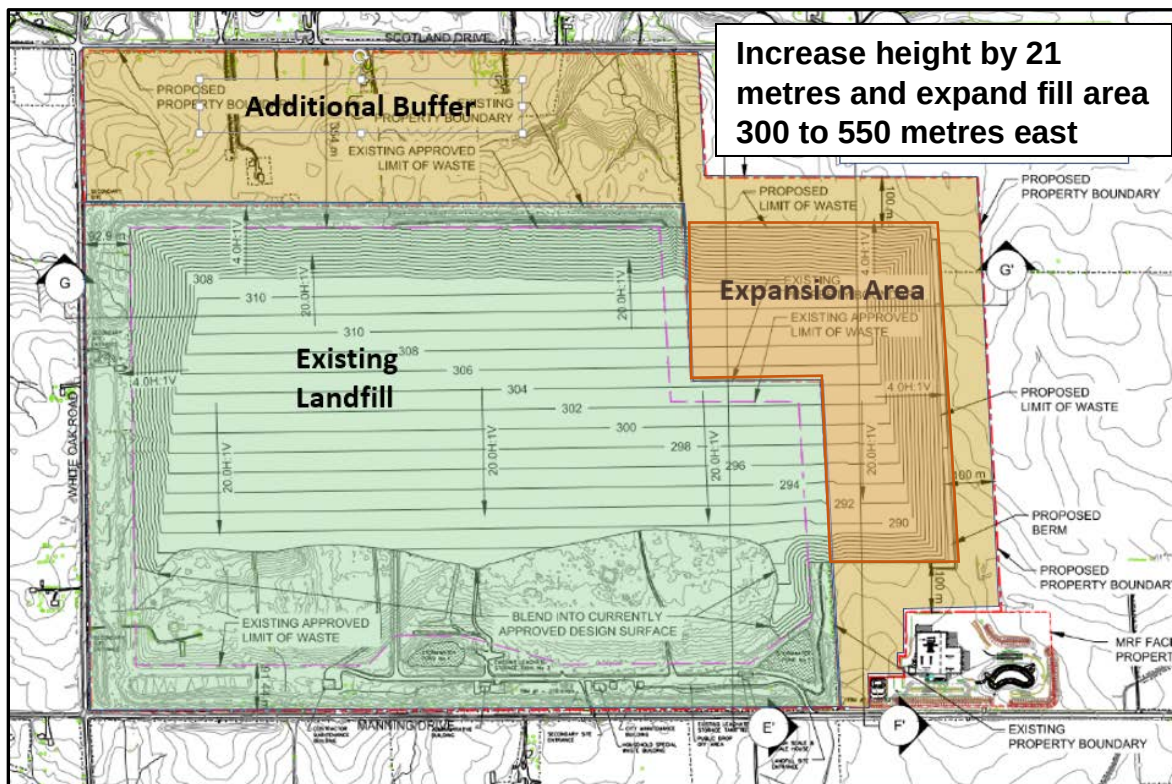


# Frequently Asked Questions

## Alternative #2



## Alternative #3



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## ***Frequently Asked Questions***

### **Why has Alternative #1 been identified as the preliminary preferred expansion alternative?**

A number of detailed investigations and studies were completed in order to compare the three landfill expansion alternatives across a number of environmental, social and technical considerations (see appendix “A”).

The main advantages of Alternative #1 are:



- Highest degree of groundwater protection
- Best alternative to limit odours
- Fewest changes to existing stormwater management system
- Least potential air quality, archaeology, agricultural, aquatic ecosystem, community, land use, noise and terrestrial ecosystem impacts
- Lowest cost alternative

The main disadvantages of Alternative #1 are:



- Greatest visual impact
- More complex design (more engineering infrastructure required to store leachate)

All three alternatives were considered to have similar transportation, heritage and cultural potential impacts.

Information on the various studies and investigations completed will be available at the open house along with the comparative evaluation of the three landfill expansion alternatives.

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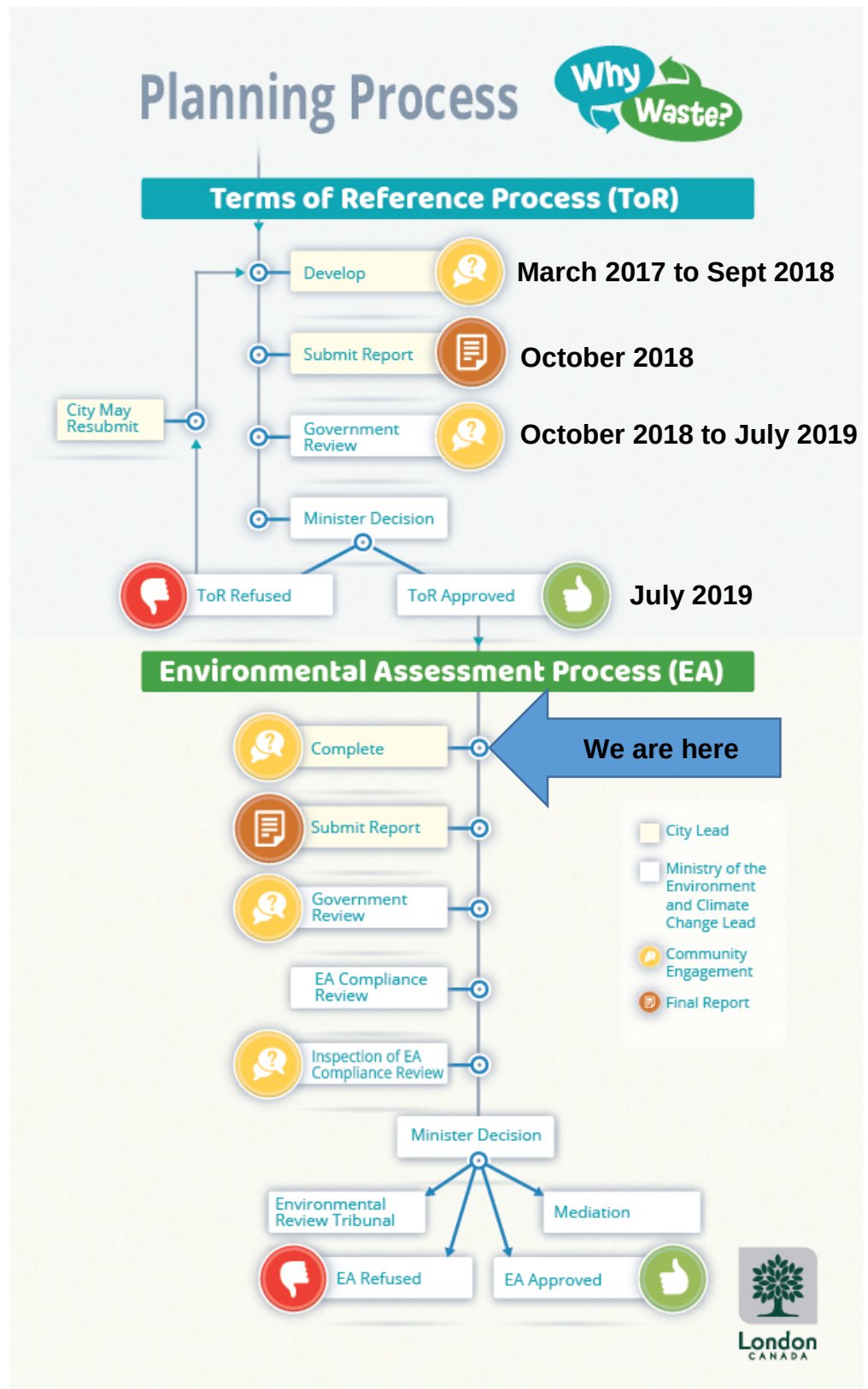
## Where are we in the Process?

The EA process is expected to take approximately four years to complete (from the start date of March 2017).

The first phase was to develop the Terms of Reference that is the work plan or framework for completing the EA. This has been completed and was approved by the Minister of Environment, Conservation & Parks.

The City is currently completing the EA study, which involves the completion of a number of technical investigations (e.g. groundwater) to help determine the best way to expand the landfill. The steps in completing the EA study are listed on page 5.

The completed EA must be approved by the Minister and Cabinet before the project can proceed.



## ***Frequently Asked Questions***

### **What are the remaining steps in completing the EA study?**

Completion of the EA study will be undertaken in a series of nine steps, which are described below. The steps are described fully in the Terms of Reference.

| <b>Step listed in Terms of Reference</b> |                                                                                                 | <b>Description/Explanation</b>                                                                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                 | Characterize the existing environmental conditions                                              | Complete technical studies (e.g., groundwater, surface water, traffic, air quality, archeology, etc.) on the area. This step is complete.                    |
| <b>2</b>                                 | Identify the 'Alternative Methods' of landfill expansion                                        | Develop different vertical (higher) and/or lateral (northern or eastern) expansion alternatives. This step is complete.                                      |
| <b>3</b>                                 | Qualitative or quantitative evaluation of 'Alternative Methods'                                 | Determine the potential impact of each of the different expansion alternatives on the study areas. This step is complete.                                    |
| <b>4</b>                                 | Compare the 'Alternative Methods' for landfill expansion and identify the preferred alternative | Select the expansion alternative that has the least overall impact.<br><b>We are currently completing this step and seeking feedback at this open house.</b> |
| <b>5</b>                                 | Determine the net effects of the preferred alternative                                          | Detailed assessments will be completed on the potential impacts from the preferred expansion alternative.                                                    |
| <b>6</b>                                 | Describe the preferred 'Alternative Method' for landfill expansion                              | Prepare a detailed description of the preferred expansion alternative and confirm how leachate (water that has contacted garbage) will be managed.           |
| <b>7</b>                                 | Consideration of climate change                                                                 | Look at how climate change (e.g. larger rainfall events) may impact the project and how to reduce the project's contribution to climate change.              |
| <b>8</b>                                 | Cumulative Impact Assessment                                                                    | Consider the cumulative impact of expansion of the W12A Landfill with other facilities or activities in the area.                                            |
| <b>9</b>                                 | Preparation of the EA Study Report                                                              | Prepare the EA Study Report for review by stakeholders.                                                                                                      |

# Frequently Asked Questions

## Will there be opportunities to provide feedback?

As shown in the Planning Process figure (page 4), there will be opportunities to provide feedback throughout the process including during the completion of the EA study, finalization of the EA study report and the government review of the EA study.

Opportunities to provide input and feedback during completion of the EA study will include:

- **Open Houses** – another series of open houses is planned in 2020, in addition to the February 2020 open houses;
- **Project Website ([getinvolved.london.ca/WhyWasteDisposal](http://getinvolved.london.ca/WhyWasteDisposal))** - will inform the public on the EA process, public engagement activities and solicit comments from the public. You may want to check the website monthly for updates and feedback opportunities;
- **Group and Committee Meetings** - to discuss the EA project and provide feedback as applicable; and
- **Circulation of Draft EA** for public comment prior to finalization and submission to the Ministry of Environment, Conservation and Parks (MECP) for approval. There will also be a seven week review period by the MECP and review time available to the public after the final EA Study has been submitted.

You will be informed in advance of all key consultation opportunities.

## What other approvals are required?

If the EA for the proposed expansion of the W12A Landfill is approved by the Minister of Environment, Conservation and Parks, there are still other regulatory approvals that will be required before the landfill can be expanded. These approvals are:

- **Environmental Protection Act** (design features and operations related to waste management, air and noise)
- **Ontario Water Resources Act** (stormwater management features)
- **Ontario Planning Act** (zoning amendment may be required)
- **Conservation Authorities** (permits for construction may be required)

## Questions? Comments?

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## Appendix A

The table below lists the studies/investigations that were completed and which alternative is preferred for each study/investigation.

| Environmental Component  | Environmental Sub-component                            | Preferred (Overall Result) |               |               | Public Ranking Group |
|--------------------------|--------------------------------------------------------|----------------------------|---------------|---------------|----------------------|
|                          |                                                        | Alternative 1              | Alternative 2 | Alternative 3 |                      |
| Atmosphere               | Air quality (including dust, odour and LFG)            | ✓                          |               |               | More Important       |
|                          | Noise                                                  | ✓                          |               |               | Less Important       |
| Geology and Hydrogeology | Ground water quality                                   | ✓                          |               |               | More Important       |
| Surface Water            | Surface water quality                                  | ✓                          |               |               | More Important       |
|                          | Surface water quantity                                 | ✓                          |               |               | Important            |
| Biology                  | Aquatic ecosystems                                     | ✓                          |               |               | More Important       |
|                          | Terrestrial ecosystems                                 | ✓                          |               |               | More Important       |
| Land Use Agriculture     | Current and planned future land uses                   | ✓                          |               |               | Important            |
|                          | Agriculture                                            | ✓                          |               |               | Important            |
| Archaeology              | Archaeology                                            | ✓                          |               | ✓             | Less Important       |
| Cultural Heritage        | Cultural heritage resources (including built heritage) | ✓                          | ✓             | ✓             | Less Important       |
| Socio-economic           | Local economic                                         |                            | ✓             | ✓             | Important            |
|                          | Residents and community                                | ✓                          |               |               | More Important       |
| Visual                   | Visual                                                 |                            |               | ✓             | Less Important       |
| Transportation           | Traffic                                                | ✓                          | ✓             | ✓             | Less Important       |
| Design and Operations    | Technical considerations                               |                            |               | ✓             | Important            |
|                          | Financial considerations                               | ✓                          |               |               | Important            |

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