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| TO: | CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 24, 2019 |
| FROM: | JAY STANFORD, M.A., M.P.A. DIRECTOR - ENVIRONMENT, FLEET & SOLID WASTE |
| SUBJECT: | UPDATE ON THE ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED EXPANSION OF THE W12A LANDFILL |

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| RECOMMENDATION |
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That, on the recommendation of the Director, Environment, Fleet and Solid Waste, this report **BE RECEIVED** for information.

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| PREVIOUS REPORTS PERTINENT TO THIS MATTER |
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Relevant reports that can be found at www.london.ca under City Hall (Meetings) include:

- Proposed Terms of Reference - Environmental Assessment of the Proposed W12A Landfill Expansion (September 25, 2018 meeting of the Civic Works Committee (CWC), Item #3.1)
- Draft Proposed Terms of Reference – Environmental Assessment of the Proposed W12A Landfill Expansion (April 17, 2018 meeting of the CWC, Item #3.3)

Relevant reports that can be found at www.london.ca under City Hall (Meetings – Advisory and other Committee Meetings) include:

- Proposed Amended Terms of Reference (April 18, 2019 meeting of the Waste Management Working Group (WMWG), Item #3.2)
- Proposed Terms of Reference (August 15, 2018 meeting of the WMWG, Item #2.1)
- Draft Proposed Terms of Reference (July 13, 2018 meeting of the WMWG, Item #3.2)
- Preliminary Proposed Draft Terms of Reference (March 8, 2018 meeting of the WMWG, Item #2.1)
- Terms of Reference Outline and Next Steps (January 18, 2018 meeting of the WMWG, Item #9)

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| STRATEGIC PLAN 2019-2023 |
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Municipal Council has recognized the importance of solid waste management in its 2019-2023 - Strategic Plan for the City of London as follows:

Building a Sustainable City

London has a strong and healthy environment

- Build infrastructure to support future development and protect the environment

Growing our Economy

London is a leader in Ontario for attracting new jobs and investments

- Build infrastructure to support future development and retain existing jobs

Leading in Public Service

Londoners experience exceptional and valued customer service

- Increase community and resident satisfaction of their service experience with the City)

BACKGROUND

PURPOSE:

This report provides the Civic Works Committee and Council with an update on the status of the environmental assessment for the proposed expansion of the W12A Landfill.

CONTEXT:

An Environmental Assessment (EA) under the EA Act is a planning study that assesses environmental effects, advantages and disadvantages of a proposed project. The environment is considered in broad terms to include the natural, social, cultural and economic aspects of the environment.

There are different classes (types) of EAs depending on the type and complexity of the undertaking (project). The most rigorous EA is an Individual EA. The EA for the proposed expansion of the W12A Landfill is the second Individual EA to be completed by the City and the first in over two decades.

The first phase of the Individual EA process is the development of a Terms of Reference (ToR) which requires the approval of the Minister of the Environment, Conservation and Parks. The ToR becomes the framework or work plan for the preparation and review of the Individual EA. The ToR allows the proponent to produce an EA that is more direct and easier to be reviewed by interested persons.

The second phase of the Individual EA process is the completion and approval of an EA. The proponent completes the EA in accordance with the approved ToR.

DISCUSSION

Terms of Reference

Details on development of the ToR are presented in Appendix A and summarized below.

Work on the ToR began in March 2017 with the issue of the Notice of Commencement. After extensive community engagement, Council approved submission of the Proposed ToR on October 2, 2018. As a result of comments received by Ministry of the Environment, Conservation and Parks (MECP), the City submitted a Proposed Amended ToR on February 7, 2019.

The Amended ToR was approved by the Minister of the Environment, Conservation and Parks on July 30, 2019 (Appendix B). The approval came 28 months after Notice of Commencement was issued. Since 2014 there have been four other landfill ToRs approved in southwestern Ontario with an average completion time of 52 months.

Key aspects of the Amended ToR are:

- Previous studies confirm expansion of the W12A Landfill is the most appropriate method for managing future residual waste.
- Expansion of the landfill will be based on:
 - 25 year capacity;
 - consideration of a regional service area;
 - 60% residential waste diversion; and,
 - reduction of the maximum annual rate of fill from 650,000 tonnes per year to 500,000 tonnes per year.
- The EA will look at different ways of expanding the W12A Landfill site (“alternative methods”) and will consist of a vertical expansion above the existing waste disposal

area and/or a horizontal expansion to the north and/or to the east within a portion of the Waste Management Resource Recovery Area.

- The EA will assess the potential effects of the different alternative methods on the environment and the alternatives will then be compared to identify the overall preferred expansion alternative.

Proposed Amended ToR

As noted above, a Proposed Amended TOR was submitted to the MECP on February 7, 2019 to address comments received by the MECP and from stakeholders during the government 30 day review period. Residents, stakeholders, First Nations and the Government Review Team had an opportunity to comment during the government review period.

The MECP process required that a request for a “time-out” to amend the Proposed TOR be received prior to January 4, 2019 and that the Proposed Amended TOR be submitted within seven weeks of the time-out request (February 7, 2019).

There were no significant changes made between the Amended Proposed ToR and the Proposed ToR (e.g., same 25 year site life, proposed expansion areas, technical studies, community engagement, etc.). Minor, clarity-type changes included:

- information from one of the supporting documents, *W12A Landfill Area Plan* (IBI Group, 2008), on the rationale why expansion of the W12A Landfill was the preferred alternative was included in the main body of the Proposed Amended Terms of Reference instead of an appendix;
- a statement that the proposed regional service area will be further assessed during the EA; and,
- the list of commitments (Section 11.1) was expanded to include additional key activities that were already mentioned in the Proposed ToR (Appendix C).

The reasons provided in the Notice of Approval for approving the Amended ToR are listed in Table 1.

Table 1 Reasons for Amended ToR Approval

| Reason | | Comment |
|--------|--|---|
| 1. | The Amended ToR provides that the environmental assessment will include an identification and evaluation of a reasonable range of alternative methods and that these alternative methods will be assessed during the environmental assessment process. | Approval of the amended ToR means the City only has to look at alternative methods of expanding the W12A landfill and these alternative methods will consist of “ <i>variations in and combinations of landfill height, landfill area and configuration... limited to vertical and/or lateral expansion to the north and east within the Special Policy Area</i> ”. |
| 2. | The Amended ToR requires the proponent to implement a comprehensive consultation plan during the preparation of the environmental assessment. In addition, the <i>Environmental Assessment Act</i> requires consultation and documentation of the consultation during the preparation of the environmental assessment. As well, there will be additional opportunities for public and government agency consultation when the environmental assessment is submitted to the ministry. | Table 2 provides a summary of proposed consultation plan initiatives. |

Table 1 Reasons for Amended ToR Approval

| Reason | | Comment |
|--------|---|---|
| 3. | The Amended ToR provides that the environmental assessment will be prepared using a comprehensive public, Indigenous community and government agency consultation process that is open and transparent; and in particular will include consultation on the selection and evaluation of alternative methods during the environmental assessment. | Table 2 provides a summary of proposed consultation plan initiatives. |
| 4. | The Amended ToR requires that the proponent meet the intent of the <i>Environmental Assessment Act</i> by providing for the identification of issues and concerns, and the preferred means of addressing them with due regard to adoption of environmental management, protection and mitigation measures. | Table 2 provides a summary of proposed consultation plan initiatives. |
| 5. | There are no outstanding issues that have not been incorporated into the Amended ToR or that cannot be addressed during the preparation of the environmental assessment. | - |

Community Engagement during the EA

Work on the EA will begin immediately with the Notice of Commencement which will be advertised in the *Londoner* and sent to local residents, Indigenous Communities and key stakeholders.

Community engagement proposed for the EA is summarized in Table 2 and builds on the work done during development of the ToR.

Table 2 – Summary of EA Community Engagement

| Community Engagement Activity | Comments |
|----------------------------------|---|
| Open Houses | <ul style="list-style-type: none"> Two sets of open houses (one in January, one in Spring 2020) Each set will have an afternoon and evening session at two locations plus a follow-up virtual open house on the project website |
| City of London Public Committees | <ul style="list-style-type: none"> Provide regular updates and seek feedback from various public committees including: <ul style="list-style-type: none"> W12A Landfill Public Liaison Committee Waste Management Community Liaison Committee Advisory Committee on the Environment Agricultural Advisory Committee Environmental and Ecological Planning Advisory Committee |
| Indigenous Communities | <ul style="list-style-type: none"> Consultation specific to the needs of the individual Indigenous Communities will be carried out |
| Community Events | <ul style="list-style-type: none"> Attendance at various community events to provide updates and seek feedback |
| Project Website | <ul style="list-style-type: none"> Getinvolved.London.ca/WhyWasteDisposal will be used to inform the public on the EA process, public engagement activities and to solicit feedback from the public |

| Community Engagement Activity | Comments |
|--------------------------------------|---|
| Letter/email correspondence | <ul style="list-style-type: none"> • Circulation to over 275 nearby property owners and residents, 28 landfill customers, 15 stakeholder groups and over 30 government agencies at key points in the process |
| Newspaper and social media ads | <ul style="list-style-type: none"> • Advertisements at all key milestones in the process |

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| PREPARED BY: | |
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| WESLEY ABBOTT, P. ENG. PROJECT MANAGER SOLID WASTE MANAGEMENT | |
| PREPARED AND RECOMMENDED BY: | CONCURRED BY: |
| | |
| JAY STANFORD, M.A., M.P.A. DIRECTOR, ENVIRONMENT, FLEET & SOLID WASTE | KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER |

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Appendix A – Development of the Amended Terms of Reference

Appendix B – Terms of Reference – Notice of Approval

Appendix C – Terms of Reference - List of Commitments

Appendix A

Development of the Amended Terms of Reference (Amended ToR)

The development process for the ToR is summarized in Table A-1. It is noted that the ToR has a different title depending how far along it is in the approval process.

Table A-1 - ToR Development and Tentative Schedule

| Development Step | | Date |
|--------------------------------|--|-----------------------------|
| Commencement | Notice to stakeholders and general public that work has begun on the development of a ToR for the proposed expansion of the W12A Landfill | March, 2017 |
| Initial Community Engagement | Seek feedback from the Government Review Team (GRT), public, Indigenous communities and other stakeholders. | Completed January 2018 |
| Preliminary Draft Proposed ToR | An early draft of the Draft Proposed ToR. The Ministry of the Environment, Conservation and Parks (MECP) does a preliminary screening of the Preliminary Draft Proposed ToR to ensure all documentation requirements have been met. Preliminary Draft Proposed ToR is revised to address comments. | Completed March 2018 |
| Draft Proposed ToR | The Draft Proposed ToR is submitted to the GRT, public, Indigenous Communities and other stakeholders for review and comment. Draft Proposed ToR is revised to address comments. | Completed August 2018 |
| Proposed ToR | Public participation meeting (September 25, 2018) and Council approval of Proposed ToR (October 2, 2018). Formal submission of Proposed ToR to the MECP for approval. | Completed October 2018 |
| (Final) Amended ToR | MECP 30 day review period (October 12, 2018 to November 12, 2018) for stakeholders to provide comments to MECP on Proposed TOR. | Completed November 12, 2018 |
| | City requests a “time-out” to amended Proposed ToR to address comments from MECP and from stakeholders during the review period. | Completed December 14, 2019 |
| | City submits Proposed Amended ToR. | Completed February 7, 2019 |
| | Minister of the Environment, Conservation and Parks approves the Proposed Amended ToR. It is now called Amended ToR (and represents the final document). | August 30, 2019 |

Proposed Amended ToR

As noted above, a Proposed Amended TOR was submitted to the MECP on February 7, 2019 to address comments received by the MECP and from stakeholders during the government 30 day review period. Residents, stakeholders, First Nations and the Government Review Team had an opportunity to comment during the government review period.

The MECP process required that a request for a “time-out” to amend the Proposed TOR be received prior to January 4, 2019 and that the Proposed Amended TOR be submitted within seven weeks of the time-out request (February 7, 2019).

There were no significant changes made between the Amended Proposed ToR and the Proposed ToR (e.g., same 25 year site life, proposed expansion areas, technical studies, community engagement, etc.). Minor, clarity-type changes included:

- information from one of the supporting documents, *W12A Landfill Area Plan* (IBI Group, 2008), on the rationale why expansion of the W12A Landfill was the preferred alternative was included in the main body of the Proposed Amended Terms of Reference;
- a statement that the proposed regional service area will be further assessed during the EA; and,
- the list of commitments (Section 11.1) was expanded to include additional key activities that were mentioned in the Proposed ToR.

A black-line copy that shows all the changes that were made to the original Proposed ToR was also prepared. The Amended Proposed TOR and the black-lined copy are available on the project website (www.getinvolved.london.ca/WhyWasteDisposal).

A black-line copy of the Executive Summary is provided below.

Proposed Amended Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

Executive Summary

Phase 1: Preparation of a Terms of Reference:

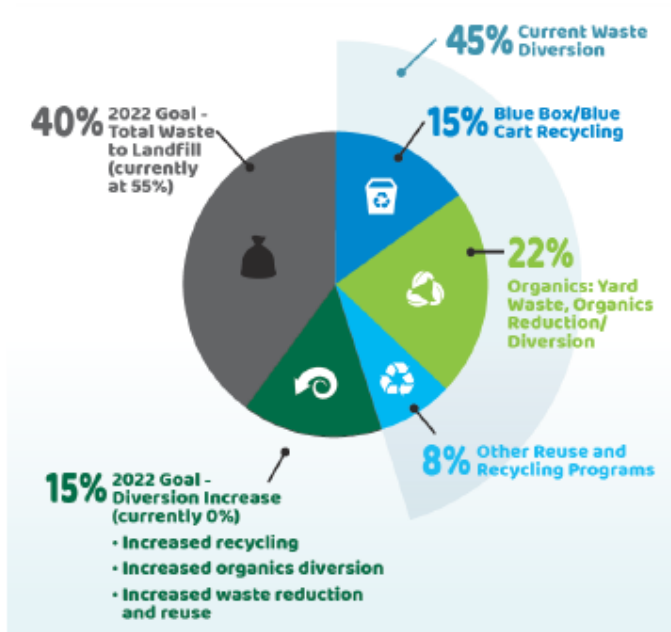
An Individual Environmental Assessment (EA) for expansion of the W12A Landfill site is being undertaken by the City of London and requires approval under the provincial *Environmental Assessment Act*. The first phase in the EA process is preparation of a Terms of Reference (ToR). Work on the ToR started in March, 2017. The ToR becomes the framework for carrying out the EA.

This is an Executive Summary of the content of the proposed ToR, which has been prepared by the City and ~~has been~~will be circulated to government review agencies, Indigenous communities, a number of City committees and the public for comment. ~~The comments received will be considered by the City of London in making revisions and preparing the proposed ToR, which will then be submitted to the Minister of Environment, Conservation and Parks (Minister) for a decision.~~ Once approved by the Minister of Environment, Conservation and Parks, the ToR provides the framework or work plan that must be subsequently completed to prepare the EA, and the basis for review and approval.

The City of London has implemented many waste diversion programs over the years and has achieved 45% diversion of its residential waste stream (Figure 1). This diversion rate is comparable to other medium to large size municipalities in Ontario with the exception of communities with Green Bin programs. The City has commenced the development of its long-term Resource Recovery Strategy. The first component of the strategy is to complete a 60% Diversion Action Plan to determine how best to increase residential waste diversion to 60% by 2022.

In parallel, and recognizing that despite measures to maximize diversion there will still be waste requiring disposal, expansion of the W12A Landfill site is the approach the City is

Figure 1 – Residential Waste Diversion



February 2019

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February 2019

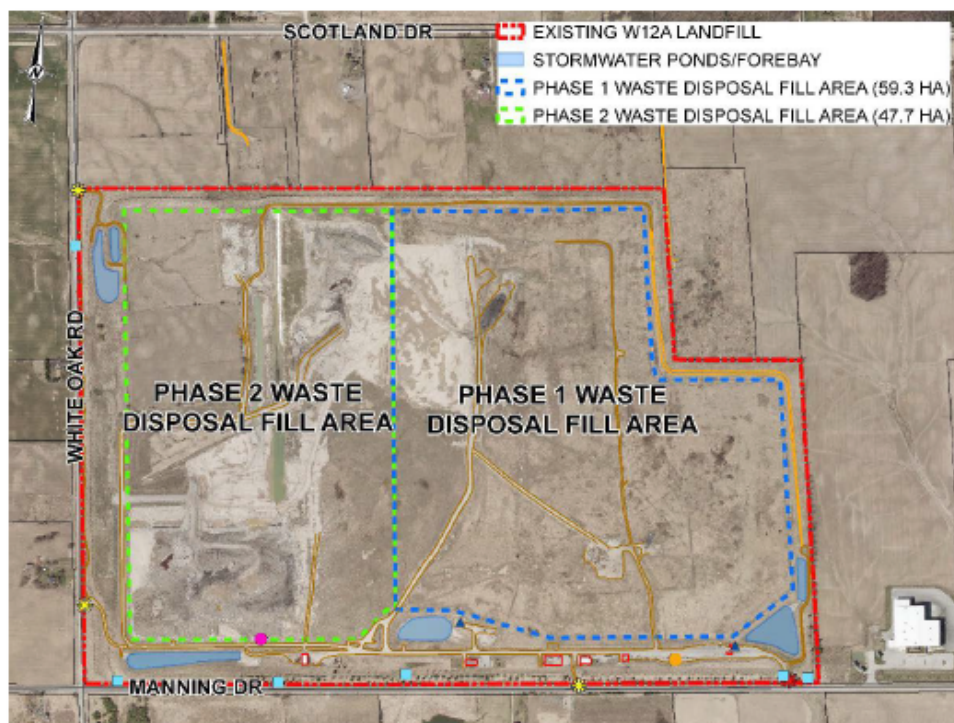
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Proposed Amended Terms of Reference for the Environmental Assessment of the
Proposed W12A Landfill Expansion, City of London

The landfill is divided into two phases (Figure 3). Phase 1 occupies the eastern portion of the disposal area and was filled to capacity in the first 25 years of operation. Phase 2 occupies the remaining western portion and has been constructed with a number of engineering design and operational upgrades (i.e., modern landfill design), and is the active area being used for the residual waste materials generated and requiring disposal. There are engineered collection systems for the leachate (the contaminated liquid produced by precipitation contacting the waste) produced at the site.

Figure 3 – W12A Landfill



For Phase 1 there is a leachate collection system around the perimeter of the disposal area, while for Phase 2 there is a full underdrain collection system below the entire base area. The collected leachate is sent off-site through a piping system for treatment at the Greenway Wastewater Treatment Plant. There is an active landfill gas collection system installed within the completed areas that have received final cover. The collected gas is flared. This gas management system reduces greenhouse gas and odour emissions from the landfill site. There is also a stormwater management system to control the quality and quantity of runoff discharged from the site.

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Proposed W12A Landfill Expansion, City of London

The landfill property and surrounding area is underlain by an extensive deposit of low permeability clayey glacial till soil that provides a natural barrier to control migration of leachate into the groundwater. There are two permeable aquifer zones within the till deposit that are used for water supply from private wells by residences, agricultural and other business purposes in this rural area of the City.

Based on the results from ongoing groundwater and residential well monitoring programs, there is no evidence of leachate effects on the aquifer zones and the W12A Landfill is operating in accordance with the province's requirements in terms of effects on groundwater quality at the property boundary. The W12A Landfill is not having an effect on off-site water well quality.

The ongoing surface water quality monitoring program indicates that the surface water discharged via the stormwater management system meets provincial requirements. The landfill gas monitoring program indicates that landfill gas is not migrating off-site through the subsurface.

Rationale for Expanding the W12A Landfill Site

Since 1969, the City has undertaken a number of waste management planning studies to be able to provide secure, long-term waste management infrastructure for the city. The continued operation of the W12A Landfill site has been a component of the City's long-term plan to provide waste management services since 1977. In 1991 a provincially-appointed arbitrator addressed the City's request to annex additional lands in the Township of Westminster. The arbitrator reported that the W12A Landfill was the most desirable location for a landfill site and that the adjacent lands were likely suitable for an additional landfill site. In the City's 'Vision 96' strategic planning process, it was concluded that the W12A Landfill was a key component of the City's long-term waste management infrastructure.

From 1995 to 1999 the City of London and County of Middlesex were involved in a cooperative long term waste management planning exercise referred to as the London/Middlesex Waste Management plan. This project was 50% funded by the Province. Outcomes of the planning exercise included the approval of the City's long term strategy known as the Waste Management Continuous Improvement System and expansion of the City's Household Special Waste depot to serve the County of Middlesex.

The City commenced the W12A Landfill Area Plan study process in 2005 to study the evolution of the W12A Landfill facility within an overall integrated waste management centre with a planning horizon of 40 years. The study compared seven alternatives that included closing the W12A Landfill and either establishing a new landfill within London or exporting the waste for disposal outside its boundaries, and expanding the W12A Landfill. Technical background studies were completed for the area studied, which was bounded by White Oak Road, Wellington Road South, Scotland Drive and Manning Drive (Figure 2). The alternatives were evaluated and compared qualitatively based on the categories of natural environment, social/cultural, technical/economic and regulatory/administrative. Both numeric and qualitative

Proposed [Amended](#) Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

rating and ranking were applied to the evaluation. This study, which included public consultation events, concluded in 2008 and identified the preferred approach as an integrated resource recovery centre including expansion of the W12A Landfill. This was followed by establishment and designation of the Waste Management Resource Recovery Area in the City's Official Plan, and additional public consultation to develop a Community Enhancement and Mitigative Measures Program to involve the community in the site operations and to benefit the community in the area of the landfill site. Expansion of the W12A Landfill site remains the preferred approach for the City's Residual Waste Disposal Strategy.

Previous waste management studies concluded that expansion of the W12A Landfill is the most appropriate disposal option. Consequently, the City is proposing not to look at other disposal alternatives as part of the EA.

It is proposed that additional assessment of long-term waste disposal alternatives (known as 'Alternatives To' the undertaking) will not be part of the EA.

Description of the Project

Based on previous community engagement activities and ongoing input received, Guiding Principles were developed by the City and approved by City Council to direct the development of the Residual Waste Disposal Strategy. Among these guiding principles, the most support was received for making waste reduction the highest priority, being socially responsible and ensuring that the solution is financially sustainable. In addition, there was support for London managing its waste within its own boundaries.

The W12A Landfill site expansion project will be defined by:

- A 25 year planning period beyond 2025, i.e., until 2050.
- [Consideration is being given to expanding the service area](#) ~~will be expanded~~ to neighbouring municipalities to create a regional service area: The City of London and the Counties of Huron, Perth, Elgin and Lambton and Middlesex [are proposed to](#) ~~will~~ be included in the regional service area. [If approved,](#) ~~the~~ City of London Council will have the authority to decide which, if any, of these other municipalities will be allowed to use the W12A Landfill for disposal of their wastes, and under what conditions. [The regional service area will be confirmed and assessed during the EA.](#)

At current disposal rates, the site is expected to reach its approved capacity at the beginning of 2025. An additional 13,600,000 cubic metres of airspace at the W12A Landfill site, which will about double the current approved capacity, will be required to satisfy disposal requirements for residual waste for the next 25 year period.

Proposed [Amended](#) Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

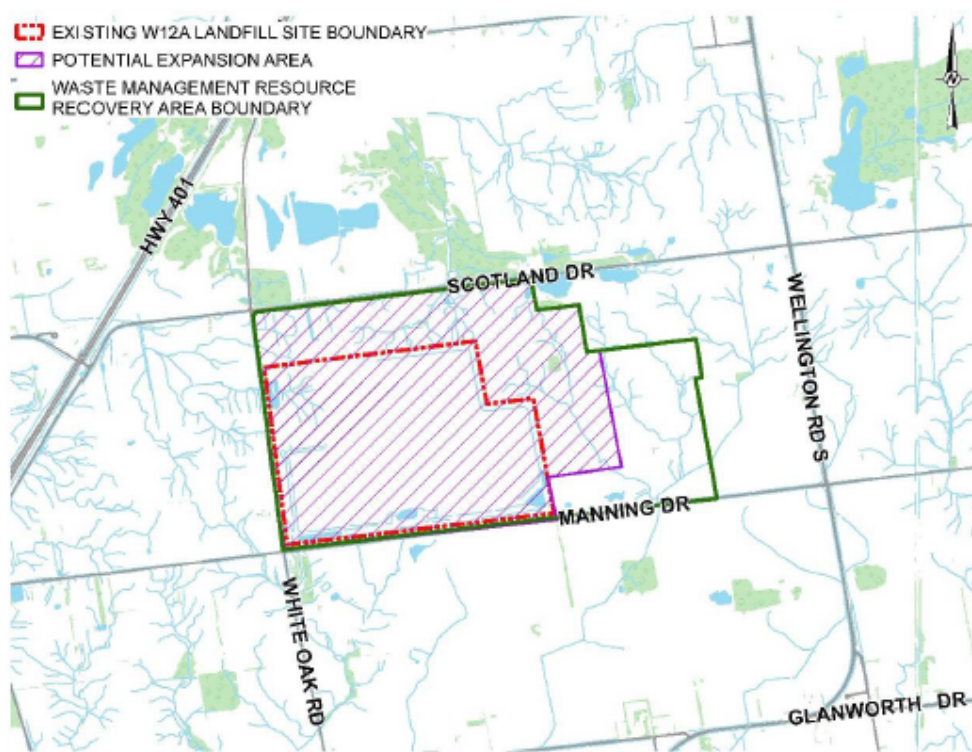
- Reduction in the maximum allowable annual tonnage that can be accepted at the landfill from 650,000 tonnes to 500,000 tonnes.
- Achieving 60% residential waste diversion by 2022.

To satisfy these disposal requirements, expansion of the W12A Landfill should allow for an additional landfill capacity of 13,600,000 cubic metres.

The different ways in which this additional airspace can be achieved on the W12A Landfill site are known as 'Alternative Methods'. The alternative methods of expanding the W12A Landfill site will be developed and described during the EA and will consist of a vertical expansion above the existing waste disposal area and/or a horizontal expansion to the north and/or to the east within a portion of the Waste Management Resource Recovery Area (Figure 4).

The area proposed for horizontal expansion extends beyond the current landfill site about 300 metres northward to Scotland Drive, and eastward about 420 metres. These expansion alternatives will consist of variations in and combinations of landfill height, landfill area and configuration. Different landfill expansion alternatives will be developed at a conceptual level to cover the range of possible alternatives whose characteristics are different enough for comparison purposes, their potential effects on the environment will be assessed, and the alternatives then compared to identify the overall preferred expansion alternative.

Figure 4 – Potential Expansion Area



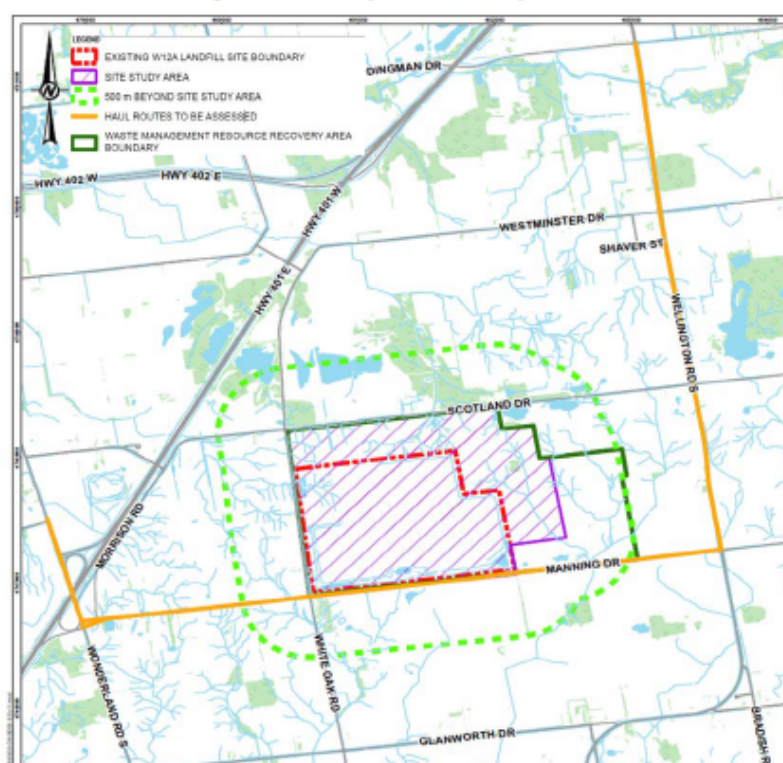
Phase 2: Environmental Assessment

The EA work will be undertaken in a series of nine steps:

- Step 1** – Characterize the existing environmental conditions
- Step 2** – Identify the 'Alternative Methods' of landfill expansion (and incorporate conceptual design mitigation measures)
- Step 3** – Qualitative evaluation of 'Alternative Methods'
- Step 4** – Compare the 'Alternative Methods' for landfill expansion and identify the preferred alternative
- Step 5** – Determine the net effects of the preferred alternative
- Step 6** – Describe the preferred 'Alternative Method' for landfill expansion;
- Step 7** – Consideration of climate change
- Step 8** – Cumulative Impact Assessment
- Step 9** – Preparation of the EA Study Report

Proposed Amended Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

Figure 5 – Proposed Study Areas



Consultation (community engagement) with the public, Indigenous communities, Government review team members, City of London Advisory Committees, and other stakeholders will be ongoing throughout the EA process.

The EA study area is the area within which activities associated with the proposed project will occur and where potential environmental effects will be studied. Three preliminary generic study areas (Figure 5) for the assessment, which may be refined and will be confirmed during the EA, have been identified as follows:

Site Study Area – The existing W12A Landfill Site, located at 3502 Manning Drive and adjacent lands where landfill expansion may occur.

Site-vicinity Study Area – The lands in the area immediately adjacent to the Site Study Area that have the potential to be directly affected by the landfill expansion and activities with the Site Study Area. The extent of the Site-vicinity Study Area will be determined for each of the environmental components. For most environmental components, a Site-vicinity Study Area of 500 metres from the Site Study Area is appropriate.

Wider Study Area – An area that takes on the broader community generally beyond the immediate site vicinity and for specific environmental components may include the entire Municipality.

The components and sub-components of the environment that will be evaluated during the EA such that the potential effects of the proposed landfill expansion alternatives are determined and compared using a set of comparative evaluation criteria, are:

Environmental Components: Atmosphere (air and noise)
Geology and Hydrogeology (groundwater quality)
Surface Water (quality and quantity)
Biology (aquatic and terrestrial)

Socio-Economic Components: Land Use
Agriculture
Archaeology and Cultural Heritage
Socio-economic
Visual Impacts

Technical Components: Design & Operations
Transportation

The ToR provides technical work plans for each of these components and sub-components that will be undertaken during the EA study.

Consultation (Community Engagement)

The ToR describes the Community Engagement Program prepared and undertaken by the City for the development of this ToR, as well as the program proposed for the subsequent EA process.

Engagement and consultation with the public and other stakeholders is a key component of the EA process. It enables stakeholders to participate in the planning process and enhance the quality of the project. The key instruments in the Community Engagement Program that were used to engage the public and the other stakeholders and elicit feedback during the ToR preparation are summarized in Table 1. Input received from this program was considered by the City in preparing the proposed ToR.

A list of potentially affected Indigenous communities was developed in consultation with the Ministry of Environment, Conservation and Parks (MEPC) during the development of this ToR. A program to engage and consult with the eight identified Indigenous communities was carried out considering their specific needs and specific issues. The Indigenous communities were consulted on how they would like to be involved in the EA process. City staff were available to meet with interested Indigenous communities and discuss the proposed project at any time during the development of the ToR.

Proposed [Amended](#) Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

**Table 1 – Key Community Engagement Activities
Between March 2017 and January 2018**

| Community Engagement Activity | Comments |
|---|---|
| Open Houses | <ul style="list-style-type: none"> Two sets of open houses (one in May, one in November 2017) Each set had an afternoon and evening sessions at two locations plus a follow-up virtual open house on the project website |
| W12A Landfill Public Liaison Committee | <ul style="list-style-type: none"> Existing committee Provided updates at six meetings |
| City of London Advisory Committees | <ul style="list-style-type: none"> Advisory Committee on the Environment, Agricultural Advisory Committee and Environmental and Ecological Planning Advisory Committee Attended and presented at two meetings for each advisory committee |
| Community Liaison Committee | <ul style="list-style-type: none"> New committee with members representing various stakeholder groups Four meetings |
| Community Events | <ul style="list-style-type: none"> Booth at 10 community events (e.g., Sunfest, Lifestyle Home Show, etc.) |
| Project Website | <ul style="list-style-type: none"> Getinvolved.London.ca/WhyWasteDisposal Over 1,300 unique visitors |
| Letter/email correspondence | <ul style="list-style-type: none"> Contacted 275 nearby property owners and residents, 28 landfill customers, 15 stakeholder groups and over 30 government agencies on three occasions (Notice of Commencement and both sets of open houses) |
| Newspaper and social media advertisements | <ul style="list-style-type: none"> Numerous ads at various point in the process |

To assist in the comparative evaluation of the expansion alternatives during the EA, the public was asked at open house #2 to rank the environmental components that they considered more important, important and less important. Based on the input received, groundwater quality, aquatic ecosystems and terrestrial ecosystems were the environmental components identified as most important, while cultural heritage landscapes, cultural heritage resources and archaeology were ranked less important.

Following approval of this ToR and during preparation of the EA, a consultation program will be continued to engage the public, businesses, the Government review team, Indigenous communities, as well the various groups and committees during the EA process. Input will be

Proposed [Amended](#) Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

obtained through a number of engagement activities, which will be generally similar to the activities completed during preparation of the ToR.

The Draft EA will be circulated for a seven week public comment period prior to finalization and submission to the MECP for approval. In addition, consultation specific to individual Indigenous communities will also be carried out.

Other Regulatory Approvals

In addition to EA approval, the W12A Landfill expansion will also require approvals under the *Environmental Protection Act*, the *Ontario Water Resources Act* and the *Planning Act*, and perhaps from the Upper Thames and Kettle Creek Conservation Authorities in terms of a permit to undertake specific works associated with the expansion. These approvals processes are expected to be undertaken after EA approval is in place.

Overview of the EA Schedule

The following schedule is anticipated:

| | |
|---|------------------------------------|
| Circulation of Draft ToR for public and agency review | April/June 2018 |
| Submission of Proposed ToR for Minister's Approval | October 2018 |
| Approval of ToR | Early to Mid -2019 |
| EA Studies and EA Submission for Minister's Approval | 2019 and 2020 |
| Approval of EA | Mid-2021 |
| Other Approvals | 2021-2022 |

It is anticipated that all approvals will be in place to allow final design of the preferred landfill expansion and any required construction prior to the W12A Landfill reaching its currently approved capacity, which is predicted at the beginning of 2025.

Appendix B
Terms of Reference – Notice of Approval

TERMS OF REFERENCE - NOTICE OF APPROVAL

ENVIRONMENTAL ASSESSMENT ACT

SUBSECTION 6(4)

APPROVAL OF TERMS OF REFERENCE

FOR

THE PREPARATION OF AN ENVIRONMENTAL ASSESSMENT

RE: Proponent: City of London

Terms of Reference: W12A Landfill Expansion Environmental Assessment

EA File No.: 18016

As provided for by subsection 6(4) of the Environmental Assessment Act, terms of reference, as submitted for approval to the Ministry of the Environment, Conservation and Parks on October 12, 2018 and revised through the submission of an amended terms of reference dated February 7, 2019 is hereby approved.

Pursuant to subsection 6.1(1) of the Environmental Assessment Act, any environmental assessment for the above-noted undertaking, submitted to the Ministry of the Environment, Conservation and Parks pursuant to subsection 6.2(1) of the Environmental Assessment Act, must be prepared in accordance with the amended terms of reference as hereby approved.

Reasons:

I am satisfied that an environmental assessment prepared in accordance with the amended terms of reference will be consistent with the purpose of the Environmental Assessment Act and the public interest for the following reasons:

1. The terms of reference provides that the environmental assessment will include an identification and evaluation of a reasonable range of alternative methods and that these alternative methods will be assessed during the environmental assessment process.
2. The terms of reference requires the proponent to implement a comprehensive consultation plan during the preparation of the environmental assessment. In addition, the Environmental Assessment Act requires consultation and documentation of the consultation during the preparation of the environmental assessment. As well, there will be additional opportunities for public and government agency consultation when the environmental assessment is submitted to the ministry.

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3. The terms of reference provides that the environmental assessment will be prepared using a comprehensive public, Indigenous community and government agency consultation process that is open and transparent and in particular will include consultation on the selection and evaluation of alternative methods during the environmental assessment.
4. The terms of reference requires that the proponent meet the intent of the Environmental Assessment Act by providing for the identification of issues and concerns, and the preferred means of addressing them with due regard to adoption of environmental management, protection and mitigation measures.
5. There are no outstanding issues that have not been incorporated into the terms of reference or that cannot be addressed during the preparation of the environmental assessment.

Dated the 30 day of July, 2019 at TORONTO.



Minister of the Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

Appendix C

Terms of Reference – List of Commitments

| ID | Commitment |
|----|--|
| 1 | The EA will be prepared in accordance with subsections 6(2)(c) and 6.1(3) of the <i>EA Act</i> . |
| 2 | The City has committed to a target of 60% residential waste diversion by the end of 2022. |
| 3 | When requested, the City of London will meet with individuals or groups at their convenience to assist them with understanding the project information and providing input; for example, if they are unable to participate in planned public consultation events or require more information. |
| 4 | The City will contact Indigenous groups to discuss their consultation needs and continue to involve them in the EA process. |
| 5 | Where described in the ToR for the environmental components, detailed workplans for the technical studies will be prepared and provided to the appropriate GRT agency for review and concurrence. |
| 6 | The City will share workplans with Indigenous Communities and post workplans on the project website. |
| 7 | The City will consider the stated purpose of this EA during the EA process and will refine the purpose if required. The final purpose statement will be provided in the EA study report. |
| 8 | During the EA, assumptions used in determining the projected residual waste from the existing service area will be refined and assessed. This will be described in the EA study report. |
| 9 | During the EA the proposed regional service area will be confirmed and further assessed. This will be described in the EA study report. |
| 10 | During the EA, the preliminary criteria and indicators for each of the environmental components will be refined and described in the EA study report. |
| 11 | The preliminary Study Areas will be reviewed and confirmed during the EA and described in the EA study report. |
| 12 | A more detailed description of the environmental conditions will be prepared during the EA to reflect the confirmed Study Areas using a combination of sources of existing information and site-specific investigations and studies and provided in the EA study report. |
| 13 | The individual Alternative Methods of expanding the W12A Landfill will be identified, refined and confirmed during the EA, and described in the EA study report. |
| 14 | Further input on the relative importance of the assessment indicators will be obtained during the initial stages of the EA. |
| 15 | During the EA, the capability of the WWTP to continue to receive the leachate generated from the preferred landfill expansion alternative will be evaluated. This will be described in the EA study report. |
| 16 | The preferred expansion alternative will be assessed from the perspective of climate change. |
| 17 | A cumulative impact assessment will be completed and described in the EA study report. |
| 18 | Post-closure commitments will be described in the EA study report |
| 19 | The list of ToR commitments will be provided in the EA study report together with the way in which these commitments were addressed during the EA and the location of the information within the EA documents. The EA Report will also include a list of commitments made by the City during the preparation of the EA studies and during consultation throughout the EA process |
| 20 | The City commits to developing a monitoring framework during the preparation of the EA. |