Waste Management Working Group

Report

4th Meeting of the Waste Management Working Group
August 15, 2018
Committee Room #1

Attendance

PRESENT: Mayor M. Brown (Acting Chair); Councillors M. Cassidy, J. Helmer and H. Usher and J. Bunn (Secretary)

ABSENT: Councillors S. Turner and M. van Holst

ALSO PRESENT: W. Abbott, M. Losee, K. Scherr and J. Stanford

The meeting was called to order at 4:07 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

2. Scheduled Items

2.1 Update Report #11 – Proposed Terms of Reference

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the release of the Proposed Terms of Reference related to the Environmental Assessment of the Proposed W12A Landfill Expansion Site for a public participation meeting on September 25, 2018, BE SUPPORTED by the Waste Management Working Group; it being noted that the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, was received with respect to this matter.

3. Consent

3.1 3rd Report of the Waste Management Working Group

That it BE NOTED that the 3rd Report of the Waste Management Working Group, from its meeting held on July 13, 2018, was received.

4. Items for Discussion

None.

5. Deferred Matters/Additional Business

None.

6. Adjournment

The meeting adjourned at 4:48 PM.

TO:	**CHAIR AND MEMBERS WASTE MANAGEMENT WORKING GROUP MEETING ON AUGUST 15, 2018**
FROM:	**JAY STANFORD, M.A., M.P.A. DIRECTOR - ENVIRONMENT, FLEET & SOLID WASTE**
SUBJECT:	**UPDATE REPORT #11: PROPOSED TERMS OF REFERENCE**

RECOMMENDATION

That, on the recommendation of the Director - Environment, Fleet and Solid Waste, the release of the Proposed Terms of Reference for a Public Participation Meeting on September 25, 2018 **BE SUPPORTED**.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Relevant reports that can be found at www.london.ca under City Hall (Meetings) include:

- Draft Proposed Terms of Reference – Environmental Assessment of the Proposed W12A Landfill Expansion Site (April 17, 2018 meeting of the Civic Works Committee (CWC), Item #3.3)
- Appointment of Consulting Engineer for Various Technical Studies as part of the Environmental Assessment Process for the Proposed Expansion of the W12A Landfill Site (July 17, 2017 meeting of the CWC, Item #6)
- Update and Next Steps – Resource Recovery Strategy and Residual Waste Disposal Strategy as part of the Environmental Assessment Process (February 7, 2017 meeting of the CWC, Item #10)

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

- Draft Proposed Draft Terms of Reference (July 13, 2018 meeting of the Waste Management Working Group (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)
- General Framework for the Community Engagement Program for the Resource Recovery and Residual Waste Disposal Strategies as part of the Environmental Assessment Process (January 19, 2017 meeting of the WMWG, Item #7)

COUNCIL'S 2015-2019 STRATEGIC PLAN

Municipal Council has recognized the importance of solid waste management in its 2015-2019 - Strategic Plan for the City of London (2015 – 2019 Strategic Plan) as follows:

Building a Sustainable City
- Strong and healthy environment
- Robust infrastructure

Growing our Economy
- Local, regional, and global innovation
- Strategic, collaborative partnerships

Leading in Public Service
- Proactive financial management
- Innovative & supportive organizational practices
- Collaborative, engaged leadership
- Excellent service delivery

BACKGROUND

PURPOSE:

This report provides the Waste Management Working Group (WMWG) with an opportunity to review and comment on the Proposed Terms of Reference.

CONTEXT:

An Environmental Assessment (EA) under the EA Act is a planning study that assesses environmental effects and 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.

The first phase of the Individual EA process, used for large-scale projects like landfill sites, is the development and approval of a Terms of Reference (ToR) by the Minister of 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

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

Table 1 - ToR Development and Tentative Schedule

Development Step		Tentative Schedule
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.	April to July 2018
Proposed ToR	**Public participation meeting and Council approval of Proposed ToR. Formal submission of Proposed ToR to the MECP for approval. The MECP may ask for revisions to the Proposed ToR to address concerns prior to MECP staff submitting the Proposed ToR to the Minister for approval.**	**Late Summer to Fall 2018 (In Progress)**
(Final) ToR	ToR as approved by the Minister of the Environment, Conservation and Parks. EA must be carried out according to the ToR.	Early 2019 to Spring 2019

Proposed ToR

The development process for the Proposed ToR is summarized in Table 2 and began with the release of the Draft Proposed ToR to the GRT (18 Ministries and agencies), Indigenous communities (8 communities), public and other stakeholders (5 groups) for review and comment.

Table 2 - Development Proposed Terms of Reference

Date	Event	Comments
April 26	Draft Proposed ToR released to GRT, Indigenous communities, general public and other stakeholders.	Start of 45 day review period
June 7	Meeting with Technical Support Section of the Southwest Region of MECP	Discussion on air quality comments and City's initial and/or revised responses
June 8	Original end date for 45 day review period	
June 20	Additional comments received	Some GRT members requested additional time
July 20	Teleconference with Environmental Assessment and Permissions Branch of MECP	Discussion on EA comments and City's initial and/or revised responses
July 26	Teleconference with Environmental Assessment and Permissions Branch, Corridor Management Section, West Region of MTO	Discussion on transportation comments and City's initial and/or revised responses

In total, the City received 86 comments from five members of the GRT (Environmental Assessment and Permissions Branch of the MECP; Technical Support Section of the Southwest Region of the MECP; Programs and Services Branch of the Ministry of Tourism, Culture and Sport; Corridor Management Section (MTCS), West Region of the Ministry of Transportation Ontario (MTO) and the Kettle Creek Conservation Authority) and the general public. It was expected that most organizations would not have comments given the previous opportunities to provide feedback.

A breakdown of the comments received is provided in Table 3. Discussions were held with some of the GRT members responding to seek clarification on their comments.

Table 3 – Breakdown of Comments on Draft Proposed Terms of Reference

Stakeholder		Comments	
		#	Subject
GRT	Environmental Assessment and Permissions Branch of the MECP	40	EA Process/ General
	Technical Support Section of the Southwest Region of the MECP	10	Air Quality
	Programs and Services Branch of the Ministry of Tourism, Culture and Sport (MTCS)	6	Archaeology & Built Heritage
	Corridor Management Section, West Region of the MTO	5	Transportation
	Kettle Creek Conservation Authority	7	Surface Water
General Public	One individual provided written comments	12	General
	Six individuals provided comments on the project website	6	General
Total		86	

A summary of how the comments received were handled is presented in Table 4.

Table 4 – Categories of Comments and how They were Addressed in the Proposed ToR

Category of Comment and Type of Change (if Required)		Number
Comment not requiring a change.		34
Minor rewording of existing information or reordering of existing information.		12
Additional details or clarification provided	Information about the W12A Landfill,	6
	how the W12A Landfill Area Study was used to determine that expansion of the W12A Landfill was the preferred alternative for the disposal of waste,	4
	how the EA process will be completed,	4
	how technical studies will be completed, and	19
	background details on service area expansion.	2
Minor changes to how Technical Studies will be completed	Air modelling is typically done using standard emission rates, the City will consider developing site-specific emission rates if warranted following a review of historical odour complaints, recorded weather and operational procedures.	1
Changes to EA Process	The number of alternatives methods (different landfill expansion alternatives) developed in the EA is limited to 3 or 4. The specific number of alternative methods has been removed at this time as this will be finalized in the EA.	1
Change to “undertaking”	Reduction in estimated waste from proposed expanded service area from 1.3 million tonnes to 0.6 million tonnes (about 28,000 tonnes per year). This has the potential to impact tipping fee revenues and potentially increase the net cost of landfill operations. The amount is difficult to estimate but could range between $250,000 and $500,000. Overall capacity drops from 14.7 million m^3 to 13.6 million m^3. This will reduce the height of the landfill expansion by 1.5 to 3 metres.	1
Changes to “List of Commitments”	The Proposed ToR contains a list of commitments which is a public statement of key actions the City will undertake to facilitate the EA process. The MECP requested that two of the many EA requirements (actions, tasks and studies) contained in the Proposed ToR be included in the “List of Commitments” to highlight their importance. The revised List of Commitments is provided in Table 5.	2
Total		86

Table 5 – Revised List of Commitments

ID	Commitment
1	The City has committed to a target of 60% residential waste diversion by 2022.
2	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.
3	NEW - Post-closure commitments will be described in the EA Report.
4	NEW - The City will share workplans with Indigenous Communities and post workplans on the project website.

The edits and revisions to address the 86 comments are underway and will be completed by August 20, 2018. Appendix A contains the edits and revisions (via track changes) to the Executive Summary to illustrate what is required throughout the document. Following completion of the edits to the Proposed ToR, it will be posted on the City's website as per the City's 30 day notification period for large EAs prior to a Public Participation Meeting.

Summary
The Draft Proposed ToR was revised to address the 86 comments received. The resulting Proposed ToR contains a number of changes but no changes to the key elements of the undertaking which are:

- 60% waste diversion by the end of 2022
- Expansion of the W12A Landfill to provide capacity for a further 25 years
- Expansion of the service area to include neighbouring municipalities (Elgin, Huron, Lambton, Middlesex and Perth Counties)
- Reduction in the maximum allowable annual tonnage that can be accepted at the landfill from 650,000 tonnes to 500,000 tonnes (It is noted that the annual rate of fill limit includes a 20% contingency allowance for annual variation due to changing economic conditions, populations projections, natural disasters, etc.)

It is recommended that the WMWG support the release of the Proposed Terms of Reference for a Public Participation Meeting on September 25, 2018 at the Civic Works Committee.

ACKNOWLEDGEMENTS

This report was prepared with assistance from Mike Losee, Division Manager, Solid Waste Management and Jane Kittmer, Solid Waste Planning Coordinator.

PREPARED BY:	
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 - Revisions to the Draft Proposed Terms of Reference Executive Summary

Appendix A
Revisions to the Draft Proposed Terms of Reference
Executive Summary

Executive Summary

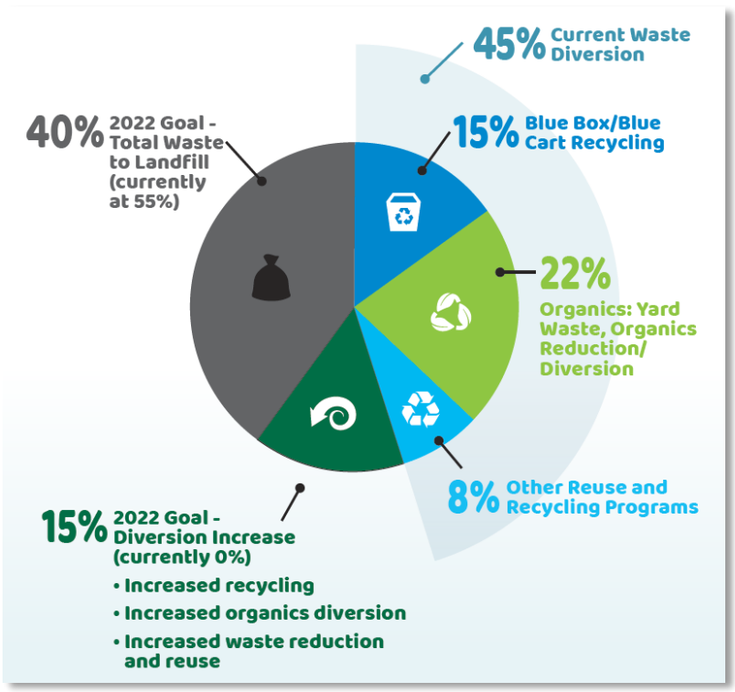
Phase 1: Preparation of a Terms of Reference:

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 ~~draft~~ proposed ToR, which has been prepared by the City and 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 the Environment, Conservation and Parks ~~Environment & Climate Change~~ (Minister) for a decision. Once approved by the Minister, the ToR provides the framework or work plan that must be subsequently completed to prepare the EA, and the basis for review and approval.

Figure 1 - Residential Waste Diversion

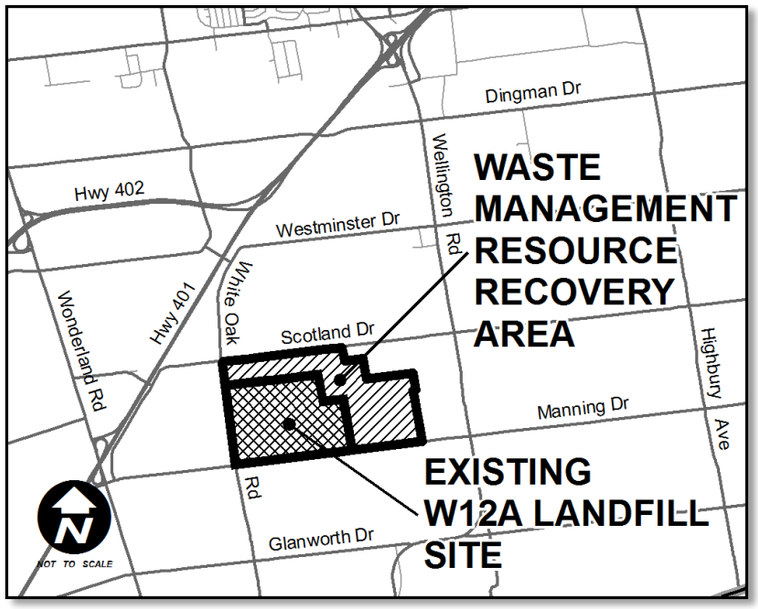
The City of London has implemented many waste diversion programs over the years and has achieved 45% diversion of its residential waste stream (Figure 1). This diversion rate is comparable to other medium to large size municipalities in Ontario with the exception of communities with Green Bin programs. 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 taking for the long term Residual Waste Disposal Strategy for materials that cannot be diverted.

The W12A Landfill Site

Figure 2 - W12A Landfill Location



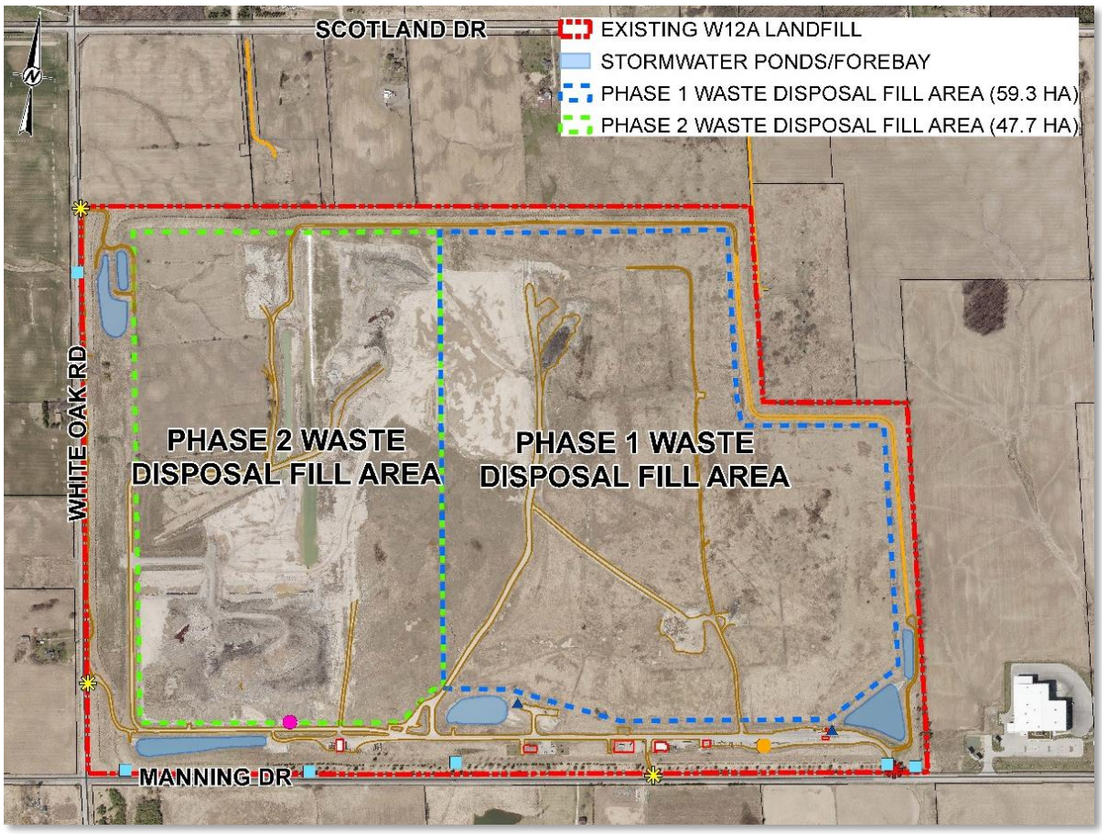
The W12A landfill site is located in the south portion of the City of London, within the western part of the block of land bounded by Manning Drive, Scotland Drive, White Oak Road and Wellington Road South (Figure 2). The site is currently licensed by the Province of Ontario to dispose of waste within a 107 hectare disposal area, which is located within a 142 hectare property. There is an approved site capacity of 12,500,000 cubic metres for waste (about 10,000,000 tonnes), cover soil and final cover. The site is allowed to accept solid non-hazardous waste from a specified area, consisting of the City of London, the Municipality of Thames Centre, the Lake Huron and Elgin Area water treatment plants and Try Recycling Facilities located adjacent to the City's northern boundary. The site can also accept Municipal Hazardous or Special Waste from the City of London, the County of Elgin and the County of Middlesex for transfer off-site for recycling or disposal. The areas described above are referred to as the site's current service area.

The landfill property is located within the Waste Management Resource Recovery Area, which is a large area of City-owned land identified within the City's Official Plan for future waste management facilities. A City-owned Material Recycling Facility (MRF) is located within these lands just east of the landfill site.

The W12A Landfill Site has been in operation since 1977. The majority of the wastes that it receives are from London residences and some businesses. The remainder of the businesses within the city export their waste for disposal to facilities outside the City. As of January 2018, the remaining approved airspace is approximately 2.5 million m^3 which is equivalent to approximately 1.85 million tonnes of disposal capacity. At current disposal rates, the W12A Landfill is expected to reach its approved capacity at the beginning of 2025.

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.

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 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 ~~within an integrated resource recovery centre~~. 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.

~~As part of the developing this ToR, a confirmatory screening assessment fo the seven alternatives evaluated in the previous study was completed and the results presented to he public, various committee and City Council. This assessment confirmed that expansion of the W12A Landfill site remains the preferred approach for the City's Residual Waste Disposal Strategy.~~

Previous waste management studies ~~and work completed as part of the TOR process~~ 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.
- 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 will be included in the regional service area. 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.
- 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.

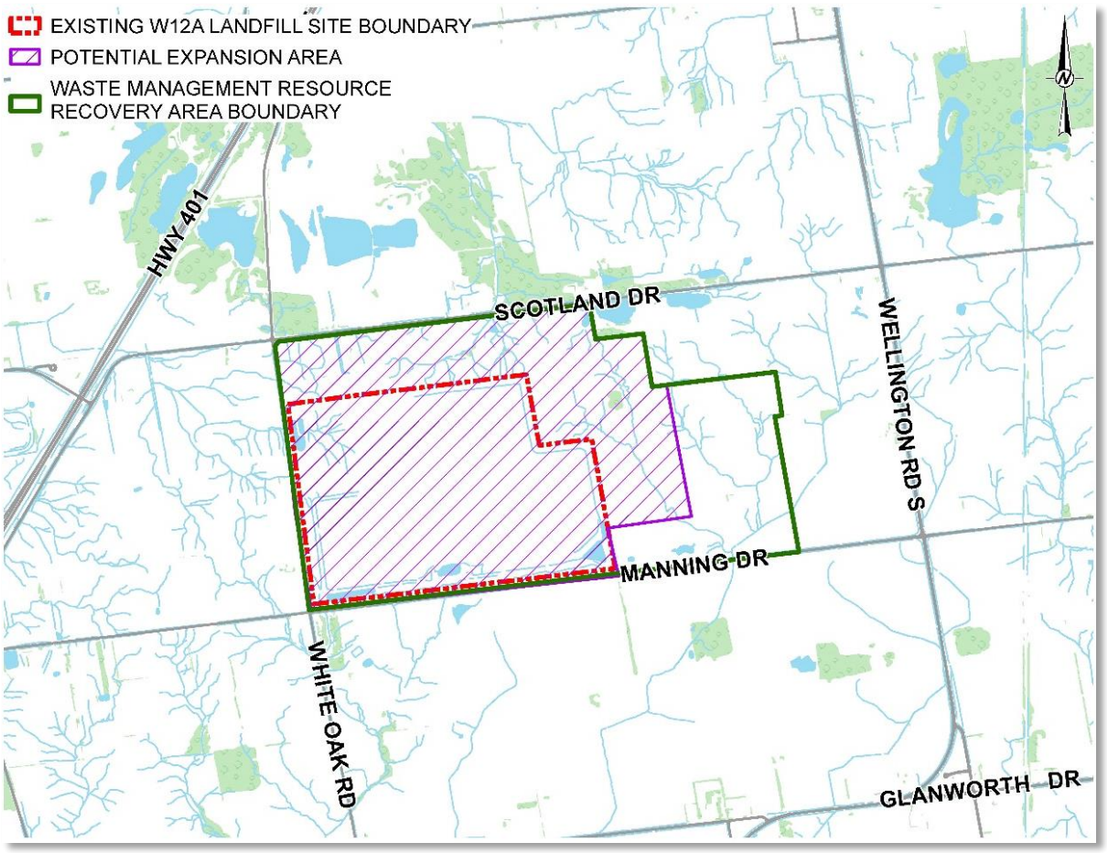
At current disposal rates, the site is expected to reach its approved capacity at the beginning of 2025.
An additional ~~14,7~~13,600,000 cubic metres of airspace at the W12A Landfill site, which will about double the current approved capacity, will be required to satisfy disposal requirements for residual waste for the next 25 year period.

To satisfy these disposal requirements, expansion of the W12A Landfill should allow for an additional landfill capacity of ~~14,7~~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. ~~It is expected that there will be three or four d~~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 ~~Identify the 'Alternative Methods' of landfill expansion (and incorporate conceptual design mitigation measures)~~

Step 2 – Identify the 'Alternative Methods' of landfill expansion (and incorporate conceptual design mitigation measures) ~~Characterize the existing environmental conditions~~

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

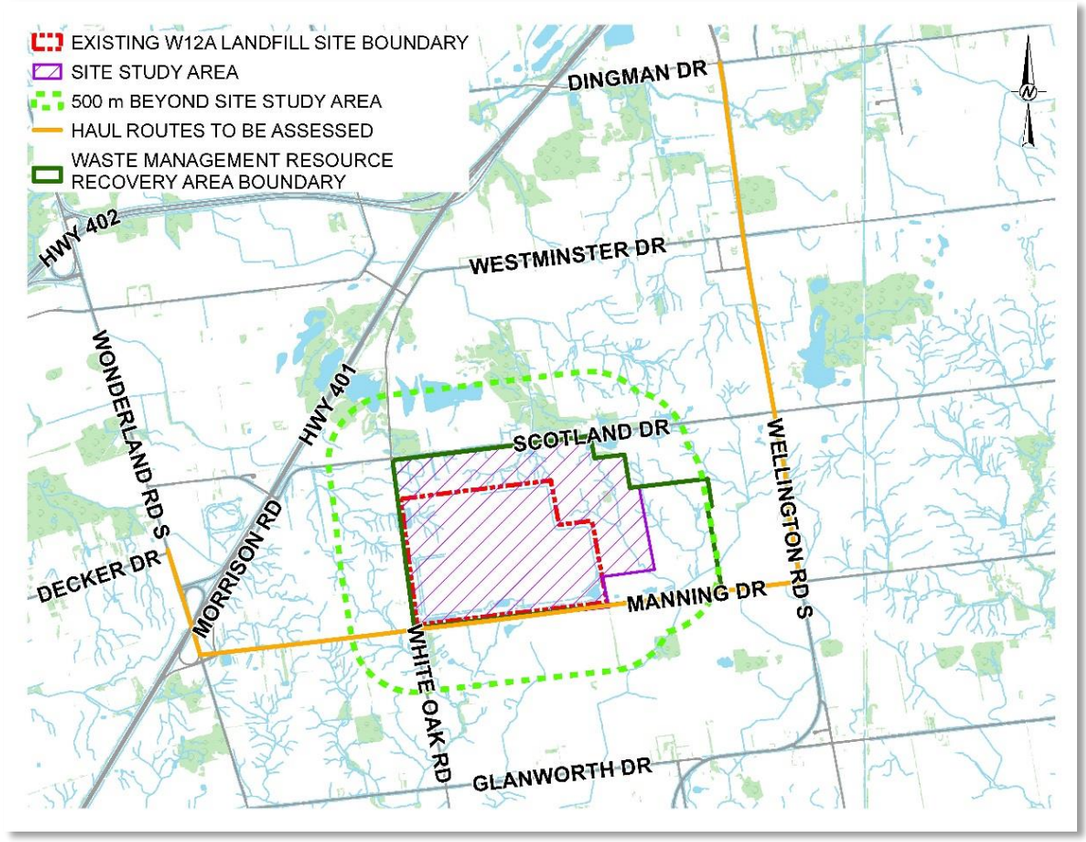
Step 6 – Describe the preferred 'Alternative Method' for landfill expansion;

Step 7 – Consideration of climate change

Step 8 – Cumulative Impact Assessment

Step 9 – Preparation of the EA Study Report

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 ~~draft~~ proposed ToR.

A list of potentially affected Indigenous communities was developed in consultation with the ~~MOECC~~ 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.

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

Community Engagement Activity	Comments
Open Houses	• 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	• Existing committee • Provided updates at six meetings
City of London Advisory Committees	• 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	• New committee with members representing various stakeholder groups • Four meetings
Community Events	• Booth at 10 community events (e.g., Sunfest, Lifestyle Home Show, etc.)
Project Website	• Getinvolved.London.ca/WhyWasteDisposal • Over 1,300 unique visitors
Letter/email correspondence	• 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	• 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 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 ~~MOECC~~ 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 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/~~May~~ June2018
Submission of Proposed ToR for Minister's Approval	~~August~~ October 2018
Approval of ToR	~~Late 2018~~/Early 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.

Proposed Terms of Reference Expansion of the W12A Landfill

Waste Management Working Group

August 15, 2018

Outline

1. ToR Process
2. Overview - ToR
3. Summary of Comments
4. Other

August 3, 2018

Volume I

Proposed Terms of Reference

Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

GOLDER

London

1. Terms of Reference Process (ToR)

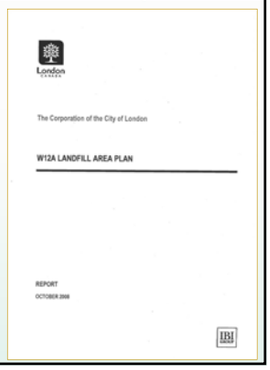
1. ToR Process (Develop)

Initial ToR Development	March 2017 to January 2018
Preliminary Draft Proposed ToR	January to March 2018, Released by Council
Draft Proposed ToR	April to July 2018
Proposed ToR	We are here
Submit after Sept. 25 PPM at CWC, Council	
ToR	Early 2019 to Spring 2019

City Led | MECP Led

2:ToR Overview (Disposal Method)

Expansion of the W12A Landfill is the most appropriate disposal option based on previous waste plan studies (2008)



2: ToR Overview (Diversion)

2: ToR Overview (Planning Period)

Plan for additional 25 years
(2025 – 2050)

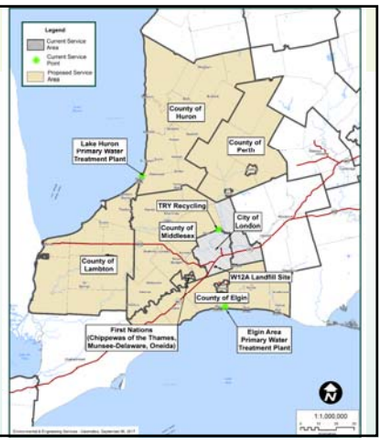
- Maximum supported by MECP staff
- The London Plan in effect until 2035
- Waste disposal security for at least 6 terms of Municipal Council
- Consistent with *Waste-Free Ontario Act*

2: ToR Overview (Limit on Annual Tonnage)

- Current limit = 650,000 tonne/year
- **Proposed limit = 500,000 tonne/year**

Consideration	Average (Tonnes)	Peak (Tonnes)
Existing Service Area	370,000	380,000
Expanded Service Area	24,000	40,000
Contingency	-	80,000
Total	**-**	**500,000**

2: ToR Overview (Regional Service Area)



2. ToR Overview (EA Studies)

Category	Environmental Component	Environmental Sub-components
Environmental	Atmosphere	• Air quality (including dust, odour and greenhouse gases) • Noise
	Biology	• Aquatic ecosystems • Terrestrial ecosystems
	Geology & Hydrogeology	• Groundwater quality
	Surface Water	• Surface water quality • Surface water quantity
Social	Agriculture	• Agriculture
	Archaeology	• Archaeology
	Culture	• Cultural heritage landscapes • Cultural heritage resources (including built heritage)
	Land Use	• Current and planned future land uses
	Socio-economic	• Local economy • Residents and community
	Visual	• Visual
Technical	Design and Operations	• Technical Considerations • Financial Considerations
	Transportation	• Traffic

Provincial Direction

Year	Gov't	*Act*/Direction	Diversion Level
2018 -	PC		
2003 - 2018	**Liberal**	***Waste-Free Ontario Act, 2016***	**Adjusted - 30% by 2020; 50% by 2030; 80% by 2050**
		60% Waste Diversion Goal (2004)	**Added** - 60% by 2008
1995 - 2003	PC	*Waste Diversion Act, 2002*	**Added** - 60% recovery of Blue Box materials
1990 - 1995	NDP	*Environmental Protection Act* (3Rs Regs – 1994)	**Confirmed** - 50% by 2000
1985 - 1990	Liberal	Waste Reduction Action Plan (1989)	50% by 2000 25% by 1992
1981 - 1985	PC	Blueprint for waste management (1983)	

3. Summary of Comments

	Stakeholder	Comments #	Comments Subject
GRT	MECP (EA)	40	EA Process/ General
	MECP (Air Quality)	10	Air Quality
	MTCS	6	Archaeology & Built Heritage
	MTO	5	Transportation
	KCCA	7	Surface Water
Public	Written comments (1 person)	12	General
	Project website (6 persons)	6	General
Total		86	

3. Summary of Comments

No change/Minor Changes (46)

Additional Details/Clarification (35)

Examples…

- More details on where MHSW goes
- More details on MRF
- Difference between phase 1 and 2 portions of the landfill

3. Summary of Comments

Change to Technical Studies (1)

Will consider developing site-specific emission rates for air contaminants

Changes to EA Process (1)

Alternatives methods (expansion alternatives) to be finalized in EA

3. Summary of Comments

Changes to List of Commitments (2)

Commit to:

1. 60% residential diversion
2. Meet outside of planned pubic engagement

3. **Post-closure commitments**
4. **Share final (technical study) workplans**

3. Summary of Comments

Change to Undertaking (1)

Reduction in waste from proposed regional service area.

- 1.3 million tonnes down to 0.6 million tonnes
- No change to proposed service area
- Potential increase in net landfill cost
- Minor reduction in landfill height

4: Other Updates

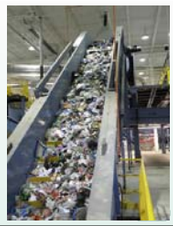
60% Waste Diversion Action Plan

- Project website – Feedback Request
- Circulation to stakeholders
- Gather on the Green II (August 19)
- WMCLC (August 20)
- ACE (September 5)
- PPM (September 25)

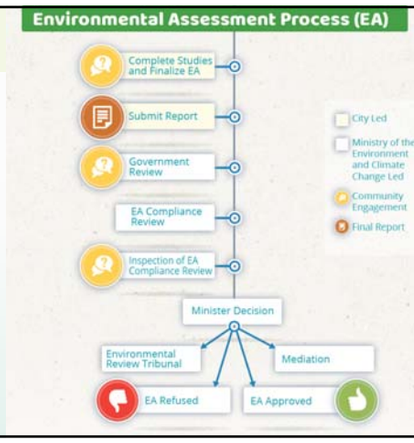
4: Other Updates

Resource Recovery

- Request for Information
  - ✓ 26 responses
  - ✓ Further review underway
- London Waste to Resources Innovation Centre
  - ✓ ICFAR NSERC initiative



4. EA Process



Waste Management Working Group
Report

3rd Meeting of the Waste Management Working Group
July 13, 2018
Committee Room #1

Attendance

PRESENT: Councillor M. van Holst (Chair); Mayor M. Brown; Councillors J. Helmer and S. Turner and J. Bunn (Secretary)

ABSENT: Councillors M. Cassidy and H. Usher

ALSO PRESENT: W. Abbott, M. Losee and J. Stanford

The meeting was called to order at 12:00 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

2. Scheduled Items

2.1 Decision Report #8 – 60% Waste Diversion Action Plan

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the following actions be taken with respect to the 60% Waste Diversion Action Plan:

a) the staff report dated July 13, 2018, with respect to the 60% Waste Diversion Action Plan, BE RECEIVED;

b) the action plan to achieve 60% waste diversion by 2022 BE SUPPORTED IN PRINCIPLE; and,

c) the release of the above-noted Action Plan for review and comment by the general public and other stakeholders BE SUPPORTED; it being noted that minor changes/revisions to the report may be made prior to release to improve readability or layout of the report;

it being noted that the ~~attached~~ presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to this matter, was received.

3. Consent

3.1 2nd Report of the Waste Management Working Group

That it BE NOTED that the 2nd Report of the Waste Management Working Group, from its meeting held on March 8, 2018, was received.

3.2 Update Report #10 - Draft Proposed Terms of Reference

That it BE NOTED that the staff report dated July 13, 2018, with respect to an update report (#10) related to the Draft Proposed Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion for the City of London, was received.

4. Items for Discussion

None.

5. Deferred Matters/Additional Business

None.

6. Adjournment

The meeting adjourned at 1:12 PM.