

Waste Management Working Group

Report

The 1st Meeting of the Waste Management Working Group
December 18, 2019
Committee Room #3

Attendance PRESENT: Councillor E. Pelozo (Chair), Councillors S. Lehman, S. Turner and M. van Holst and J. Bunn (Committee Clerk)

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

The meeting was called to order at 4:01 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

1.2 Election of Chair and Vice Chair for the term ending in November 30, 2020

That it BE NOTED that the Waste Management Working Group elected Councillor E. Pelozo and Councillor S. Turner as Chair and Vice Chair, respectively, for the term ending November 30, 2020.

2. Scheduled Items

None.

3. Consent

3.1 1st Report of the Waste Management Working Group

That it BE NOTED that the 1st Report of the Waste Management Working Group, from its meeting held on April 18, 2019, was received.

3.2 Municipal Council Resolution - Waste Management Working Group

That it BE NOTED that the Municipal Council resolution, from its meeting held on November 26, 2019, with respect to the Waste Management Working Group, was received.

3.3 Progress Report #8: Community Engagement Program Update - April 1, 2019 to November 30, 2019

That it BE NOTED that the staff report dated December 18, 2019, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to progress report #8 on the Community Engagement Program Update from April 1, 2019 to November 30, 2019, was received.

3.4 Progress Report #9: 60% Waste Diversion Action Plan

That it BE NOTED that the staff report dated December 18, 2019, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to progress report #9 on the 60% Waste Diversion Action Plan; it being noted that the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to this matter, was received.

4. Items for Discussion

4.1 Adjustment to Environmental Assessment Project Manager Role - Verbal Update

That it BE NOTED that a verbal update from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to an adjustment to the Environmental Assessment Project Manager role, was received.

4.2 Decision Report #9: Environmental Assessment Process

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the three Alternative Methods for the proposed expansion of the W12A landfill, as explained in the attached staff report dated December 18, 2019, BE SUPPORTED IN PRINCIPLE for release to the public for the upcoming Open Houses tentatively scheduled for February 2020; it being noted that the three Alternative Methods are very similar to the ones that have been before the Waste Management Working Group, the Civic Works Committee, Municipal Council and the community as design concepts; it being further noted that the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to this matter, was received.

5. Adjournment

The meeting adjourned at 5:28 PM.

Waste Management Working Group

Report

1st Meeting of the Waste Management Working Group
April 18, 2019
Committee Room #1

Attendance PRESENT: Councillors S. Lehman, E. Pelozza, S. Turner and M. van Holst and J. Bunn (Secretary)

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

The meeting was called to order at 4:00 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

1.2 Election of Chair and Vice-Chair for the Term Ending November 30, 2019

That it BE NOTED that the Waste Management Working Group elected Councillor E. Pelozza and Councillor S. Lehman as Chair and Vice Chair, respectively, for the term ending November 30, 2019.

2. Scheduled Items

2.1 Background and Status on Environmental Assessment Process, 60% Waste Diversion Action Plan and Resource Recovery Strategy

That it BE NOTED that the ~~attached~~ presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to background and status on the Environmental Assessment Process, 60% Waste Diversion Action Plan and Resource Recovery Strategy, was received.

3. Consent

3.1 4th Report of the Waste Management Working Group

That it BE NOTED that the 4th Report of the Waste Management Working Group, from its meeting held on August 15, 2018, was received.

3.2 Update Report #12 – Proposed Amended Terms of Reference - Environmental Assessment of the Proposed W12A Landfill Expansion

That it BE NOTED that the staff report dated April 18, 2019, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to update report #12 on the Proposed Amended Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion, was received.

3.3 Progress Report #6 – Community Engagement Program Update – March 1, 2018 to March 30, 2019

That it BE NOTED that the staff report dated April 18, 2019, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to progress report #6 on the Community Engagement Program Update from March 1, 2018 to March 30, 2019, was received.

3.4 Progress Report #7 – 60% Waste Diversion Action Plan

That it BE NOTED that the staff report dated April 18, 2019, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to progress report #7 on the 60% Waste Diversion Action Plan, was received.

4. Items for Discussion

None.

5. Deferred Matters/Additional Business

None.

6. Adjournment

The meeting adjourned at 5:20 PM.



London
CANADA

P.O. Box 5035
300 Dufferin Avenue
London, ON
N6A 4L9

November 27, 2019

C. Saunders
City Clerk

I hereby certify that the Municipal Council, at its meeting held on November 26, 2019 resolved:

That on the recommendation of the City Clerk, the following actions be taken with respect to the Waste Management Working Group:

- a) the following appointments to the Waste Management Working Group, BE EXTENDED to June 30, 2021, or until the Working Group completes its mandate, whichever is sooner: Councillors van Holst, Lehman, Turner and Peloza; and,
- b) subject to the approval of part a), above, the Terms of Reference BE AMENDED to reflect the Term of Office for the Working Group. (2.3/22/SPPC) (2019-E07)

B. Westlake-Power
Deputy City Clerk
/hw

cc: J. Bunn, Committee Clerk

TO:	CHAIR AND MEMBERS WASTE MANAGEMENT WORKING GROUP MEETING ON DECEMBER 18, 2019
FROM:	JAY STANFORD, M.A., M.P.A. DIRECTOR - ENVIRONMENT, FLEET & SOLID WASTE
SUBJECT:	PROGRESS REPORT #8: COMMUNITY ENGAGEMENT PROGRAM UPDATE - APRIL 1, 2019 TO NOVEMBER 30, 2019

RECOMMENDATION

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

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:

- 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 Civic Works Committee (CWC), Item #10)
- Individual Environmental Assessment Long Term Solid Waste Resource Recovery & Disposal Plans (October 6, 2015 meeting of the CWC, Item #14)

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

- Progress Report #6: Community Engagement Program (April 18, 2019 meeting of the Waste Management Working Group (WMWG), Item #3.3)
- Progress Report #5: Community Engagement Program (March 8, 2018 meeting of the WMWG, Item #3.2)
- Progress Report #4: Community Engagement Program (January 18, 2018 meeting of the WMWG, Item #7)
- Update Report #4: Community Engagement Program (September 28, 2017 meeting of the WMWG, Item #6)
- Progress Report #1: Community Engagement Program (June 27, 2017 meeting of the WMWG, Item #6)
- 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 2019-2023 STRATEGIC PLAN

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 Waste Management Working Group (WMWG) with an update on Community Engagement Program activities for the Resource Recovery and Residual Waste Disposal Strategies that have taken place between April 1, 2019 and November 30, 2019.

CONTEXT:

In February 2017 Municipal Council directed City staff to undertake a number of actions with respect to the development of a long term Resource Recovery Strategy and a Residual Waste Disposal Strategy for the City of London. These actions included approving the general framework of the Community Engagement Program including:

- Using the following community engagement tools and forums: public notices, project website including use of the *getinvolved.london.ca* website, interested stakeholders contact and distribution list, open houses, meetings/presentations, City of London Advisory Committees, and using a range of information and communications tools; and,
- Contacting individuals and groups within the following broad stakeholder categories: the general public, the Government Review Team (GRT) and Indigenous Communities.

The Community Engagement Program began on March 30, 2017 with the release of the Notice of Commencement.

The WMWG has received community engagement activity updates for the following periods:

1. March 30, 2017 to June 5, 2017 (on June 5, 2017)
2. June 6, 2017 to September 12, 2017 (on September 28, 2017)
3. September 13, 2017 to January 10, 2018 (on January 18, 2018)
4. January 11, 2018 to March 1, 2018 (on March 8, 2018)
5. March 2, 2018 to March 30, 2019 (on April 18, 2019)

Addressing the Need for Action on Climate Change

On April 23, 2019, the following was approved by Municipal Council with respect to climate change:

Therefore, a climate emergency be declared by the City of London for the purposes of naming, framing, and deepening our commitment to protecting our economy, our eco systems, and our community from climate change.

Both the Resource Recovery Strategy and Waste Disposal Strategy (including the EA) address various aspects of climate change mitigation and climate change adaptation. These elements are also a requirement that must be addressed as part of EA documentation.

DISCUSSION

Overview

A formal Public Consultation Report (i.e., the title assigned by the Ministry of Environment, Conservation and Parks - MECP) for the Environmental Assessment (EA) process is required for both the Terms of Reference (ToR) and for the EA. The Public Consultation Report documents all aspects of the Community Engagement Program including information on advertising, outreach, events and activities as well as comments received.

The Public Consultation Report for the ToR was submitted in 2018. The Public Consultation Report for the EA will be submitted once the EA has been completed. A similar report will be prepared for the Resource Recovery Strategy by City staff.

Summary of Community Engagement Activities

Table 1 provides an update summary of the community engagement activities that took place from April 1 to November 30, 2019.

Table 1 – Community Engagement Activities April 1 to November 30, 2019

Activity	Description
Project Website (<i>getinvolved.london.ca</i>)	<p><i>Residual Waste Disposal Strategy</i></p> <ul style="list-style-type: none"> • Over 370 visits to the website between April 1 and November 30, 2019 with over 270 unique visitors. • Total visits since community engagement program started exceeds 3,400 visits with over 2,200 unique visitors. • Opportunity for people to review and comment on the order of importance of Environmental Components. <p><i>Resource Recovery Strategy</i></p> <ul style="list-style-type: none"> • Over 410 visits to the website between April 1 and November 30, 2019 with 280 unique visitors. • Total visits since the community engagement program started exceeds 6,700 visits with over 4,800 unique visitors.
Notice of Commencement of the Environmental Assessment	<ul style="list-style-type: none"> • Advertised in Londoner and project website. • Notices sent to stakeholders (Nearby residents, government review team, Indigenous Communities, various stakeholder groups, etc.).
Government Review of Work Plans	<ul style="list-style-type: none"> • Detailed work plans for atmosphere (air quality, dust, noise and odour) biology, geology & hydrogeology (groundwater) and surface water were submitted to the appropriate government agencies for review in September 2019. Comments received from government agencies have been addressed and the work plans finalized.
Indigenous Communities	<ul style="list-style-type: none"> • Provided update by email to First Nation communities¹ on April 23, 2019 on status of proposed expansion of the W12A Landfill. • Tour of Greenway Wastewater Treatment Plant and W12A Landfill on July 16, 2019. Attendees from COTTFN, Munsee and Oneida. • Groundwater Work Plan Workshop held at the COTTFN Community Centre on August 26, 2019. Attendees from AFN, COTTFN, Munsee and Oneida.
Community Liaison Committee (CLC)	<ul style="list-style-type: none"> • No in-person meetings were held during this period. All members of the CLC received a project update by email on June 2, 2019.

Table 1 – Community Engagement Activities April 1 to November 30, 2019

Activity	Description
Other	<ul style="list-style-type: none"> • Updates provided to the W12A Landfill Public Advisory Committee on August 15 and October 17, 2019.

Notes

1. First Nation communities are Aamjiwnaang First Nation (AFN), Caldwell First Nation (Caldwell), Chippewas of the Thames First Nation (COTTFN), Chippewas of Kettle and Stony Point (Kettle and Stony Point),), Oneida Nation of the Thames (Oneida), Delaware Nation (Delaware), Munsee-Delaware First Nation (Munsee) and Walpole Island First Nation (WIFN).

PREPARED BY:	
MIKE LOSEE, B.SC., DIVISION 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

- c Wesley Abbott, Technical Project Manager

TO:	CHAIR AND MEMBERS WASTE MANAGEMENT WORKING GROUP MEETING ON DECEMBER 18, 2019
FROM:	JAY STANFORD, M.A., M.P.A. DIRECTOR - ENVIRONMENT, FLEET & SOLID WASTE
SUBJECT:	PROGRESS REPORT #9: 60% WASTE DIVERSION ACTION PLAN

RECOMMENDATION

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

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:

- Public Participation Meeting 60% Waste Diversion Action Plan (September 25, 2018 meeting of the Civic Works Committee (CWC), Item #3.2)
- 60% Waste Diversion Action Plan (July 17, 2018 meeting of the CWC, Item #3.1)
- 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 Committee Meetings) include:

- Progress Report #7: 60% Waste Diversion Action Plan (April 18, 2019 meeting of the Waste Management Working Group (WMWG), Item #3.4)
- Decision Report #8: 60% Waste Diversion Action Plan (July 13, 2018 meeting of the WMWG, Item #2.1)
- Background Report #3 - Development of 60% Waste Diversion Action Plan (March 8, 2018 meeting of the WMWG, Item #3.3)
- Update Report #8 - Programs, Projects and Provincial Activities that will Inform and/or Influence Strategies (January 18, 2018 meeting of the WMWG, Item #8)
- Update Report #5 - Programs, Projects and Provincial Activities that will Inform and/or Influence Strategies (September 28, 2017 meeting of the WMWG, Item #7)
- Update Report #2 - Programs, Projects and Provincial Activities that will Inform and/or Influence Strategies (June 14, 2017 meeting of the WMWG, Item #8)
- Update Report #1 - Resource Recovery Update (January 19, 2017 meeting of the WMWG, Item #7)

COUNCIL'S 2019-2023 STRATEGIC PLAN

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

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BACKGROUND

PURPOSE

This report provides the Waste Management Working Group (WMWG) with an update on the 60% Waste Diversion Action Plan (Action Plan).

CONTEXT

In London, more than one tonne of waste is produced annually per person. This includes waste generated at home as well as waste generated by the industrial, commercial and institutional (IC&I) sectors. About a third of this waste is diverted through numerous waste reduction, reuse, recycling and composting programs. The overall waste diversion rate for London is between 30% and 35%. The residential (household) diversion rate has averaged about 45% over the last five years.

Regarding future waste diversion, Council has set a diversion goal of 60% by the end of 2022. On October 30, 2017 City Council passed the following resolution:

“The W12A Landfill expansion be sized assuming the residential waste diversion rate is 60% by 2022 noting this does not prevent increasing London’s residential waste diversion rate above 60% between 2022 and 2050.”

This 60% waste diversion goal was included in the Environmental Assessment (EA) submission as part of the List of Commitments made by the City for the EA.

In October 2018, Council passed the following resolution:

“...the 60% Waste Diversion Action Plan (Action Plan) containing programs and initiatives to be phased in between 2019 and 2022 to achieve 60% waste diversion BE APPROVED...”

Addressing the Need for Action on Climate Change

On April 23, 2019, the following was approved by Municipal Council with respect to climate change:

Therefore, a climate emergency be declared by the City of London for the purposes of naming, framing, and deepening our commitment to protecting our economy, our eco systems, and our community from climate change.

Both the Resource Recovery Strategy and Waste Disposal Strategy (including the EA) address various aspects of climate change mitigation and climate change adaptation. These elements are also a requirement that must be addressed as part of EA documentation.

DISCUSSION

60% Waste Diversion Action Plan – Proposed Actions

The 60% Waste Diversion Action Plan proposes a set of 21 actions to achieve 60% diversion of residential waste by the end of 2022. These actions, a brief status and proposed timing are summarized in Table 1. A more comprehensive report will be submitted to Civic Works Committee in February/March 2020 providing further updates on implementation, cost estimates and financing. Due to other activities (noted on the next page) on the waste diversion file, it was not possible to complete this work in 2019.

Some of the timeframes on Table 1 have been adjusted to reflect when budgets are likely to be available to undertake the work, all subject to final approval of the 2020-2023 Multi-year budget process (March 2020). Additional and unplanned work in 2019 was required on the following waste diversion related initiatives:

- London Waste to Resources Innovation Centre including the launch of the NSERC Industrial Research Chair Thermochemical Conversion of Biomass and Waste to Bioindustrial Resources.
- London was asked to be part of the two month mediation process led by Special Advisor David Lindsay to develop recommendations for transitioning the management of Ontario's Blue Box Program to producers of packaging and paper products including an agreed to timeframe. The process resulted in ways to improve recycling and increase the number of products that can be recycled, while making sure the program continues to be accessible and convenient. The report is entitled *Renewing the Blue Box: Final report on the blue box mediation process*.
- Contributions towards the organics management and implementation framework in Ontario being undertaken by the Provincial Government. Further details are expected in the first half of 2020.
- London's Hefty® EnergyBag® Pilot Project (for hard-to-recycle plastic items that are currently placed in the garbage) was launched in October.
- Additional details, timing adjustments, etc. associated with 2020-2023 multi-year budget.

Table 1 – Status of 60% Residential Waste Diversion Actions

Action	Brief Status – Tentative Timing and Adjusted Timing
Blue Box (Blue Cart) Programs	
1. Increase capture of recyclables from 63% to 75% (less placed in garbage)	<ul style="list-style-type: none"> • Province has approved transferring responsibility for Blue Box and Blue Cart programs to industry. Targets will be set through a regulation being developed in 2020. The transition of the recycling program will occur between 2023 and end of 2025.
New (or Expanded) Recycling Programs and Initiatives	
2. Bulky Plastics	<ul style="list-style-type: none"> • Continuing to divert bulky plastics incorrectly placed in Blue Box.
a) Continue with existing pilot project	
b) Consider implementation of an expanded program once long-term, stable markets have developed	<ul style="list-style-type: none"> • Currently there is no stable long term market. Working with the Canadian Plastics Industry Association on potential solutions.
3. Carpets	
a) Wait to see if the Province develops a provincial program for carpets under the Waste-Free Ontario Act as there are limited markets for recycling carpets in the province	<ul style="list-style-type: none"> • Province still considering developing a provincial program; likely not to be introduced for a couple of years.
b) If no provincial program exists by 2021, implement a pilot project	
4. Ceramics	
a) Provide drop-off location for ceramics at no cost at the City's EnviroDepots	<ul style="list-style-type: none"> • Tentative start date for ceramics drop-off at EnviroDepots is Fall 2020 (revised from Fall 2019).
b) Ban collection of toilets at the curb	<ul style="list-style-type: none"> • Tentative date for toilet/ceramics ban is Fall 2021 (revised from Fall 2020).

continued

Table 1 – Status of 60% Residential Waste Diversion Actions

Action	Brief Status – Tentative Timing and Adjusted Timing
5. Clothing and Textiles a) Develop a textile awareness strategy to promote existing reuse opportunities for all Londoners	<ul style="list-style-type: none"> • Tentative start date is Spring 2020 (revised from Fall 2019).
b) Pilot depot collection at select multi-residential buildings	<ul style="list-style-type: none"> • Tentative start date is Fall 2020.
6. Small Metal (Small Appliances/Electrical Tools/Scrap Metal) a) Implement semi-annual curbside collection of small metal items	<ul style="list-style-type: none"> • Tentative date for collection is Fall 2021 to coincide with other collection changes (e.g., Green Bin).
b) Pilot depot collection at select multi-residential buildings	<ul style="list-style-type: none"> • Begin pilot in Fall 2020.
7. Furniture a) Provide a drop-off location at W12A EnviroDepot for wooden furniture	<ul style="list-style-type: none"> • Tentative start date is Fall 2020 (revised from Fall 2019).
b) Begin semi-annual collection of wooden furniture c) Ban wooden furniture from curbside garbage collection	<ul style="list-style-type: none"> • Tentative date for implementation is Fall 2021 to coincide with other collection changes (e.g., Green Bin).
8. Mattresses a) Wait to see if the Province develops a provincial program for mattresses under the Waste-Free Ontario Act as there are limited markets for recycling mattresses in the province b) If no provincial program exists by 2021, implement a pilot project	<ul style="list-style-type: none"> • Province still considering developing a provincial program; likely not to be introduced for a couple of years.
Curbside Organics Management Program	
9. Implement a curbside (residential) Green Bin program	<ul style="list-style-type: none"> • See Table 2 for tentative schedule and status.
10. Implement bi-weekly (same day) garbage collection	<ul style="list-style-type: none"> • Subject to final approval on collection system parameters, tentative date for implementation is Fall 2021 to coincide with other collection changes (e.g., Green Bin).
Multi-Residential Organics Management Program	
11. Implement a mixed waste processing pilot (to recover organics and other materials) on a portion of the waste from multi-residential homes	<ul style="list-style-type: none"> • Tentative date for implementation is Fall/Winter 2021 but will depend on facility availability (revised from Fall/Winter 2020).
Other Organics Management Programs	
12. Develop and implement a food waste avoidance strategy	<ul style="list-style-type: none"> • Development underway with major roll-out of program in early 2020.
13. Reduce the cost of composters at the EnviroDepots and undertake additional sale events at select community locations	<ul style="list-style-type: none"> • Tentative date for implementation is June 2020 or January 2021 to coincide with new Fee and Charges by-law (revised from January 2020).

continued

Table 1 – Status of 60% Residential Waste Diversion Actions

Action	Brief Status – Tentative Timing and Adjusted Timing
14. Provide financial support to community groups or environmental organizations that want to set up a community composting program	<ul style="list-style-type: none"> • Tentative start date is Winter/Spring 2020.
Waste Reduction and Reuse Initiatives and Policies	
15. Create a Waste Reduction and Reuse Coordinator position within the Solid Waste Management Division	<ul style="list-style-type: none"> • Tentative start date is Summer 2020.
16. Provide financial support for community waste reduction and reuse initiatives	<ul style="list-style-type: none"> • Tentative start date is Fall 2020.
17. Reduce the garbage container limit to two or three containers per collection (based on every other week garbage collection)	<ul style="list-style-type: none"> • Tentative date for implementation is Fall 2021 to coincide with other collection changes (e.g., Green Bin).
18. Further explore the use of clear bags for garbage collection if London does not move to a roll-out cart based garbage collection system	<ul style="list-style-type: none"> • Tentative date for further examination is Fall 2020 (after operational details for Green Bin are finalized) (revised from Fall 2019). • Tentative date for implementation of selected action(s) is Fall 2021 to coincide with other collection changes (e.g., Green Bin).
19. Further explore a full user pay garbage system if London moves to a roll-out cart based garbage collection system	
20. Further examine other incentive and disincentive initiatives (best practices) from other municipalities (e.g., mandatory recycling by-law, reward systems, user fees, etc.)	
21. Provide additional feedback approaches to residents (including how waste reduction and waste diversion are calculated when providing waste management progress reports)	<ul style="list-style-type: none"> • To be completed in Summer 2020 (revised from Summer 2019).

Table 2 – Tentative Schedule and Status of Green Bin Program

Task	Brief Status – Tentative Timing
a) Finalize operational details	<ul style="list-style-type: none"> • Underway <ul style="list-style-type: none"> ○ Need to make decisions on materials collected, Green Bin container size, type of collection vehicle, bi-weekly garbage collection etc. ○ Report to CWC on proposed operational details tentatively scheduled for February/March 2020 ○ Will require community engagement before final decisions made ○ Final decisions mid 2020
b) Select Green Bin material processor	<ul style="list-style-type: none"> • Release request for proposals (RFP) in winter 2020 and award by mid-year 2020.
c) Select Collection Vehicle Manufacturer	<ul style="list-style-type: none"> • Release RFP in early 2020 and award by the summer of 2020.
d) Select Green Bin Manufacturer	<ul style="list-style-type: none"> • Release RFP in Summer 2020 and award by the end of the year.

Table 2 – Tentative Schedule and Status of Green Bin Program

Task	Brief Status – Tentative Timing
e) Promotion and Awareness Program and Distribution of Green Bins	<ul style="list-style-type: none"> • Tentative start date is June 2021.
f) Begin Roll-out of Program	<ul style="list-style-type: none"> • Tentative start date for beginning roll-out is Fall 2021.

PREPARED BY:	
MIKE LOSEE, B.SC., DIVISON 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

- c Anne Boyd, Manager, Waste Diversion
Kevin Springer, Manager, Waste Collection

Why Waste?

Background and Status on: 60% Waste Diversion Action Plan

**Waste Management Working Group
December 18, 2019**



Why Waste? **Council Direction(s)**

On October 30, 2017 City Council passed the following resolution:


"The W12A Landfill expansion be sized assuming the residential waste diversion rate is 60% by 2022 noting this does not prevent increasing London's residential waste diversion rate above 60% between 2022 and 2050."

In October 2018, Council passed the following resolution:

"...the 60% Waste Diversion Action Plan (Action Plan) containing programs and initiatives to be phased in between 2019 and 2022 to achieve 60% waste diversion ... BE APPROVED..."

In July 2019, Minister of the Environment, Conservation & Parks:

"I am satisfied that an environmental assessment prepared in accordance with the amended terms of reference will be consistent with the purpose of the EA Act"



Why Waste? **Provincial Direction(s)**




To mark our progress and keep on track, we have set three interim goals:

- 30% diversion rate by 2020
- 50% diversion rate by 2030
- 80% diversion rate by 2050

Many Targets ("must")

- 70% reduction/recovery of food and organic waste from single family homes by 2025
- 50% reduction/recovery of food and organic waste generated at the multi-residential building by 2025



Why Waste? **How much waste and resources in London?**





Between 425,000 and 450,000 tonnes per year



Why Waste?

- 21 actions
- split into 6 categories
- Operating \$6.5 million
- Capital \$16 million

60% Waste Diversion Action Plan

What's in the garbage?

Single Family Homes Apartments

Waste Management Working Group: July 13, 2018
 Civic Works Committee: July 17, 2018
 Municipal Council: July 24, 2018
 Community Engagement: July 25 - September 27, 2018

getinvolved.london.ca

Why Waste? **MYB 2020 -2023**

Operating Budget – initially focused on waste reduction including food waste avoidance

Business Case Tax Levy Impact (\$000's)	2020	2021	2022	2023	2020-2023 TOTAL
Annual Net Requested Tax Levy	\$700	\$3,900	\$6,500	\$6,500	\$17,600
Annual Net Incremental Tax Levy	\$700	\$3,200	\$2,600	\$0	\$6,500
Estimated Tax Levy Impact %	0.12%	0.51%	0.40%	0.00%	0.26% (Average)
Estimated Tax Payer Impact (Dollars) ¹	\$3.28	\$18.27	\$30.46	\$30.46	\$20.62 (Average)

Note 1: Calculated based on the average assessed value of \$241,000 for a residential property (excludes education tax portion and impacts of future tax policy).

Capital Budget – funded through Federal Gas Tax

	Life-to-Date	2020-2023 TOTAL
Capital (Project SW6050)	\$500	\$16,400

Why Waste? **Overview of Updates**

2019 had several adjustments

- Additional work on a number of items:
 - London Waste to Resources Innovation Centre
 - Provincial Blue Box mediation
 - Provincial organics framework & policies
 - London's Hefty EnergyBag Pilot Project
 - MYB budget items

Why Waste? **Overview of Updates**

2019 had several adjustments

- Work that has been delayed:
 - Diverting ceramics, some furniture through the depots
 - Coordinated textile awareness program
 - Detailed implementation plans

Why Waste? How much Avoidable Food Waste is there?

Diversion/Recovery Opportunities	% of Waste by weight
Avoidable food waste	23%
Unavoidable food waste	12%
Other Organics	15%
Pet waste	10%
Organics	60%

Why Waste? Lost Value


Local Research (Western University), London Pilot Projects . . . and experience in Canada, USA and Europe



• **\$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food**



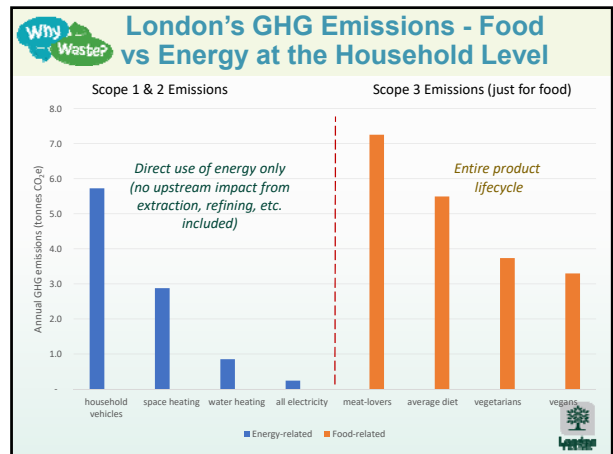
Why Waste? Food & Climate Change The Global Picture



Food systems emissions contribute **19-29% OF TOTAL GHG EMISSIONS.**

Industry & manufacturing (businesses, factories) contribute about **21% OF TOTAL GHG EMISSIONS**

Sources: CGIAR (formerly the Consultative Group for International Agricultural Research) IPCC, 2014



Why Waste? **Green Bin Implementation Decisions**

What goes in the Green Bin?

1	2	3	4	5
Food Scraps	Paper Products	Animal Waste	Personal Hygiene Products	Other



Why Waste? **Green Bin Implementation Decisions**



- Type of carts
- Single or co-collection vehicles
- Level of automation



Why Waste? **Green Bin Implementation Decisions**

Choices: Aerobic Composting or Anaerobic Digestion (Biogas)




TO:	CHAIR AND MEMBERS WASTE MANAGEMENT WORKING GROUP MEETING ON DECEMBER 18, 2019
FROM:	JAY STANFORD, M.A., M.P.A. DIRECTOR - ENVIRONMENT, FLEET & SOLID WASTE
SUBJECT:	DECISION REPORT 9: ENVIRONMENTAL ASSESSMENT PROCESS

RECOMMENDATION

That, on the recommendation of the Director - Environment, Fleet and Solid Waste, the following actions **BE TAKEN**:

- a) The Report **BE RECEIVED** for information;
- b) The three Alternative Methods for the proposed expansion of the W12A landfill **BE SUPPORTED IN PRINCIPLE** for release to the public for the upcoming Open Houses tentatively scheduled for February 2020; it being noted that the three Alternative Methods are very similar to the ones that have been before the Waste Management Working Group, Civic Works Committee, Council and the community as design concepts; and
- c) The Minutes from the December 18, 2019 Waste Management Working Group include this entire report as an appendix to ensure that the alternative methods are before the Civic Works Committee on January 7, 2020.

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 Expansion of the W12A Landfill Site: Updated Environmental Assessment Engineering Consulting Costs (October 22, 2019 meeting of the Civic Works Committee (CWC), Item #2.12)
- Proposed Terms of Reference - Environmental Assessment of the Proposed W12A Landfill Expansion (September 25, 2018 meeting of the 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)
- 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 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)
- 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 2019-2023 STRATEGIC PLAN

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 Waste Management Working Group (WMWG) with an update on the status of the Environmental Assessment process and seeks the WMWG support for the proposed three Alternative Methods (landfill expansion alternatives). These three Alternative Methods are very similar to the ones that have been before the Waste Management Working Group (WMWG), Civic Works Committee (CWC), Council and the community as design concepts.

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.

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. An individual EA is less prescribed than the more common class EAs and is used for large-scale projects like landfill sites.

The first phase of the Individual EA process is the development and approval of a Terms of Reference (ToR) by 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 completion and approval of an EA. The proponent completes the EA in accordance with the approved ToR.

Addressing the Need for Action on Climate Change

On April 23, 2019, the following was approved by Municipal Council with respect to climate change:

Therefore, a climate emergency be declared by the City of London for the purposes of naming, framing, and deepening our commitment to protecting our economy, our eco systems, and our community from climate change.

Both the Resource Recovery Strategy and Waste Disposal Strategy (including the EA) address various aspects of climate change mitigation and climate change adaptation. These elements are also a requirement that must be addressed as part of EA documentation.

DISCUSSION

Amended ToR Approval

The Amended ToR was approved on July 30, 2019 (Appendix A). The details on this approval were contained in the Proposed Terms of Reference - Environmental Assessment of the Proposed W12A Landfill Expansion report submitted to the September 25, 2018 meeting of the CWC.

The approved Amended ToR contained over 20 commitments including commitments to consult with Indigenous groups, prepare detailed work plans for certain studies and refine the service area, study areas, criteria and alternative methods.

Environmental Assessment

The following outlines work that has been completed on the EA now that the Amended ToR has been approved.

Development of Detailed Technical Study Work Plans

General work plans for all technical studies were included in the Amended ToR. The Ministry of Environment Conservation and Parks (MECP) requested the Amended ToR include a requirement that detailed work plans be prepared for four technical studies and provided to the appropriate Government Review Team (GRT) agency for review and concurrence at the start of the EA. The studies that required a detailed work plan were atmosphere (air quality, dust, noise and odour) biology, geology & hydrogeology (groundwater) and surface water.

These detailed work plans were submitted to the appropriate GRT agencies in September 2019. Comments received from government agencies have been addressed and the work plans were finalized.

Field Component of Technical Studies

Below is a summary of the status of the field work for the various technical studies. It should be noted that field work on many of the technical studies began before final approval of the ToR because of timing constraints. For example, the biology assessment requires a three season (spring, summer and fall) study.

Table 1 – Status of Field Work

Environmental Component (Technical Consulting Firm)		% Complete	Comments
Environmental	Atmosphere (Golder Associates)	n.a.	<ul style="list-style-type: none"> No field work required as impacts assessed using standard MECP models.
	Biology (AECOM)	100%	<ul style="list-style-type: none"> Various aquatic and terrestrial ecosystem assessments completed. Key features within the potential expansion area include two watercourses, cultural meadow vegetation providing species at risk and significant wildlife habitat, unevaluated wetland patches and one forested patch.
	Geology & Hydrogeology (Dillon Consulting)	95%	<ul style="list-style-type: none"> Field work including additional monitoring wells, collection of soil and water samples and excavation of test pits completed. Waiting for some test results from water and soil samples collected.
	Surface Water (Dillon Consulting)	100%	<ul style="list-style-type: none"> Existing water features in and around the landfill have been documented

Table 1 – Status of Field Work

Environmental Component (Technical Consulting Firm)		% Complete	Comments
			through field surveys and existing documentation.
Social	Agricultural (MHBC Planning Ltd.)	100%	<ul style="list-style-type: none"> Existing agricultural conditions in and around the landfill have been documented through road site surveys and review of existing information.
	Archeological Studies (Golder Associates)	100%	<ul style="list-style-type: none"> Stage 2 archeological studies completed on potential expansion lands. First Nation monitors on-site during field work. Discovered one area that required Stage 3 and Stage 4 investigations. The Stage 3 is complete, the Stage 4 work cannot be completed until the preferred expansion alternative is chosen.
	Cultural (Golder Associates)	100%	<ul style="list-style-type: none"> Existing cultural conditions in and around the landfill have been documented through road site surveys and review of existing information.
	Land Use (MHBC Planning Ltd.)	100%	<ul style="list-style-type: none"> Existing land use conditions in and around the landfill have been documented through road site surveys and review of existing information.
	Socio-Economic (Golder Associates)	100%	<ul style="list-style-type: none"> Existing socio-economic conditions in and around the landfill have been documented through road side surveys and review of existing information.
	Transportation (Golder Associates)	100%	<ul style="list-style-type: none"> Turning movements' counts completed at all key intersections.
	Visual (RKLA)	100%	<ul style="list-style-type: none"> Road site surveys completed.
Technical	Design and Operations (Golder Associates)	n.a.	<ul style="list-style-type: none"> No field work required. Assessment is completed using engineering and financial models/principles.

Service Area Update

The MECP requested the Amended ToR include a requirement that the proposed regional service area for the W12A Landfill be confirmed and further assessed. Municipalities within the proposed regional service have been contacted to confirm if they are still interested in being part of the regional service area. The majority of municipalities have responded and all have indicated they still want to be part of the regional service area. Staff will be following up with the municipalities that have not responded.

Development of Alternative Methods

'Alternative Methods' are the different ways that the proposed expansion of the W12A Landfill could be implemented to gain an additional 25 years of disposal capacity. The two key factors that were considered in designing the Alternative Methods (expansion alternatives) were:

- the requirements in the Landfill Standards Regulation (O. Reg. 232/98); and
- the existing leachate collection system including the leachate mound in the older section of the landfill.

Accordingly, three Alternative Methods for expansion of the W12A Landfill were developed. These alternatives are referred to as:

- Alternative 1 – Vertical Expansion Over Existing Footprint
- Alternative 2 – Horizontal Expansion to the North and Vertical Expansion Over Part of the Existing Footprint
- Alternative 3 – Horizontal Expansion to the East and Vertical Expansion Over Part of the Existing Footprint

The expansion alternatives are shown in Figures 1, 2 and 3 and land requirements are summarized in Table 2.

Figure 1 - Alternative 1 – Vertical Expansion Over Existing Footprint

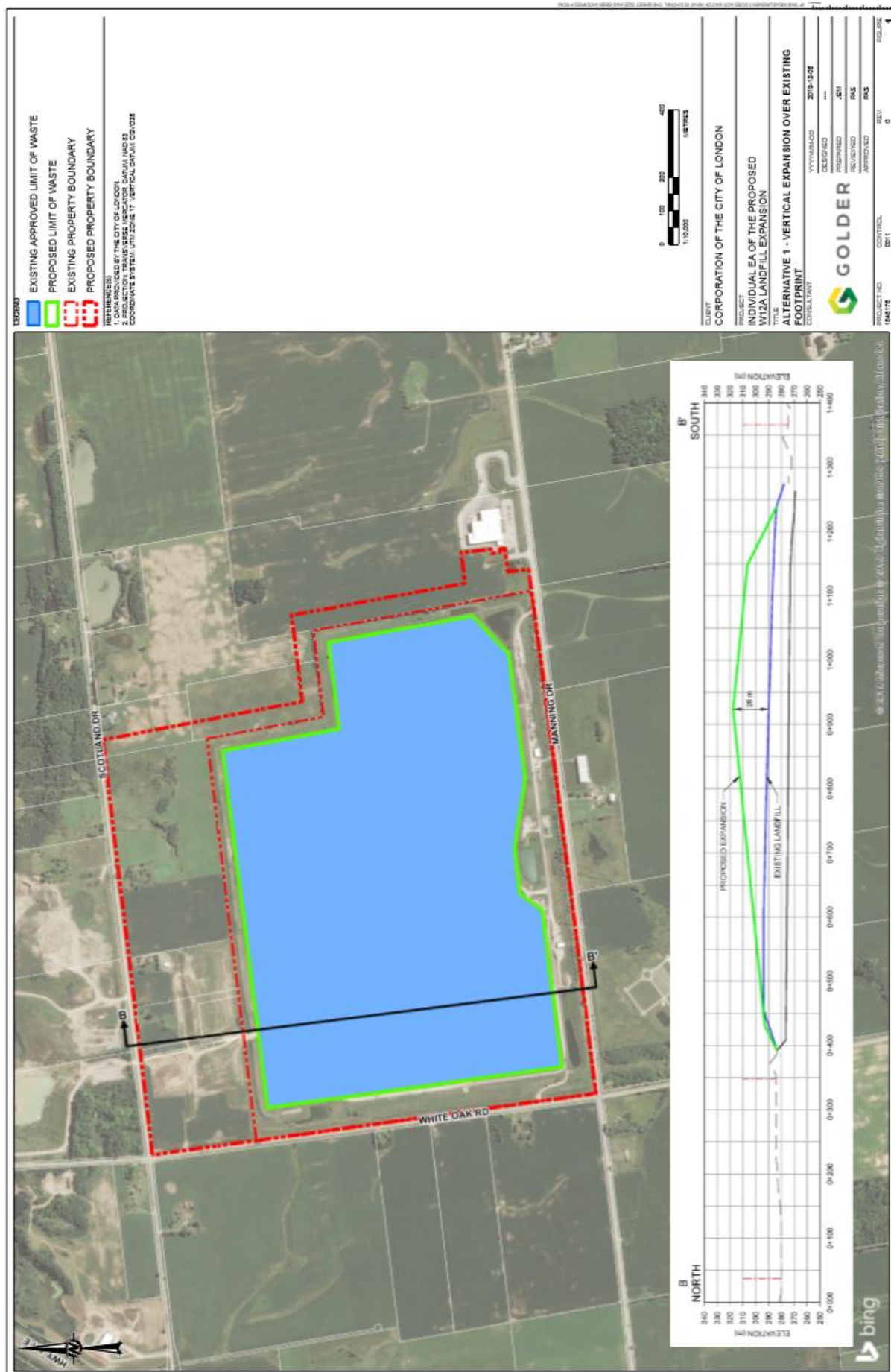


Figure 2 - Alternative 2 – Horizontal Expansion to the North and Vertical Expansion Over Part of the Existing Footprint

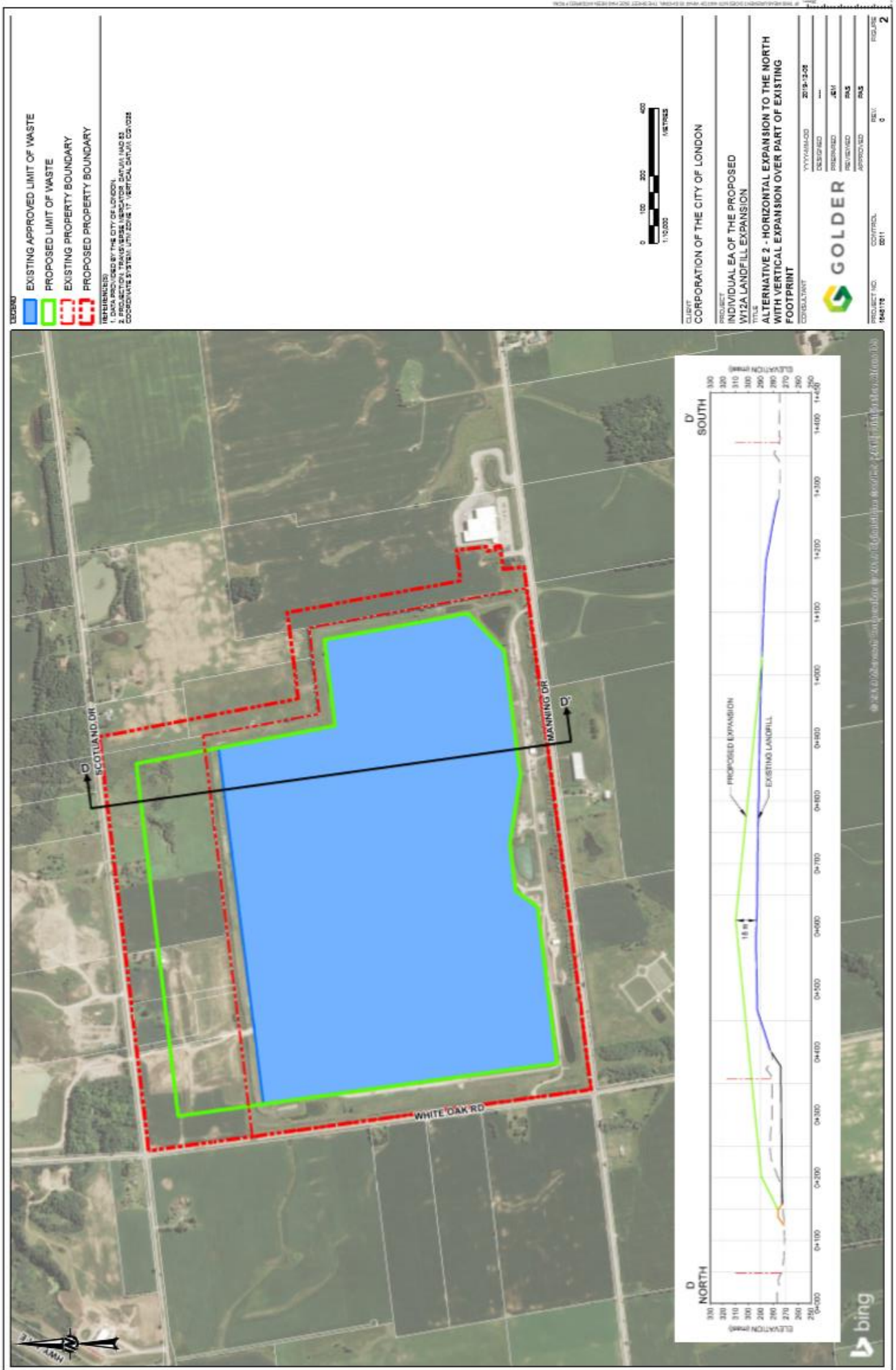


Figure 3 - Alternative 3 – Horizontal Expansion to the East and Vertical Expansion Over Part of the Existing Footprint

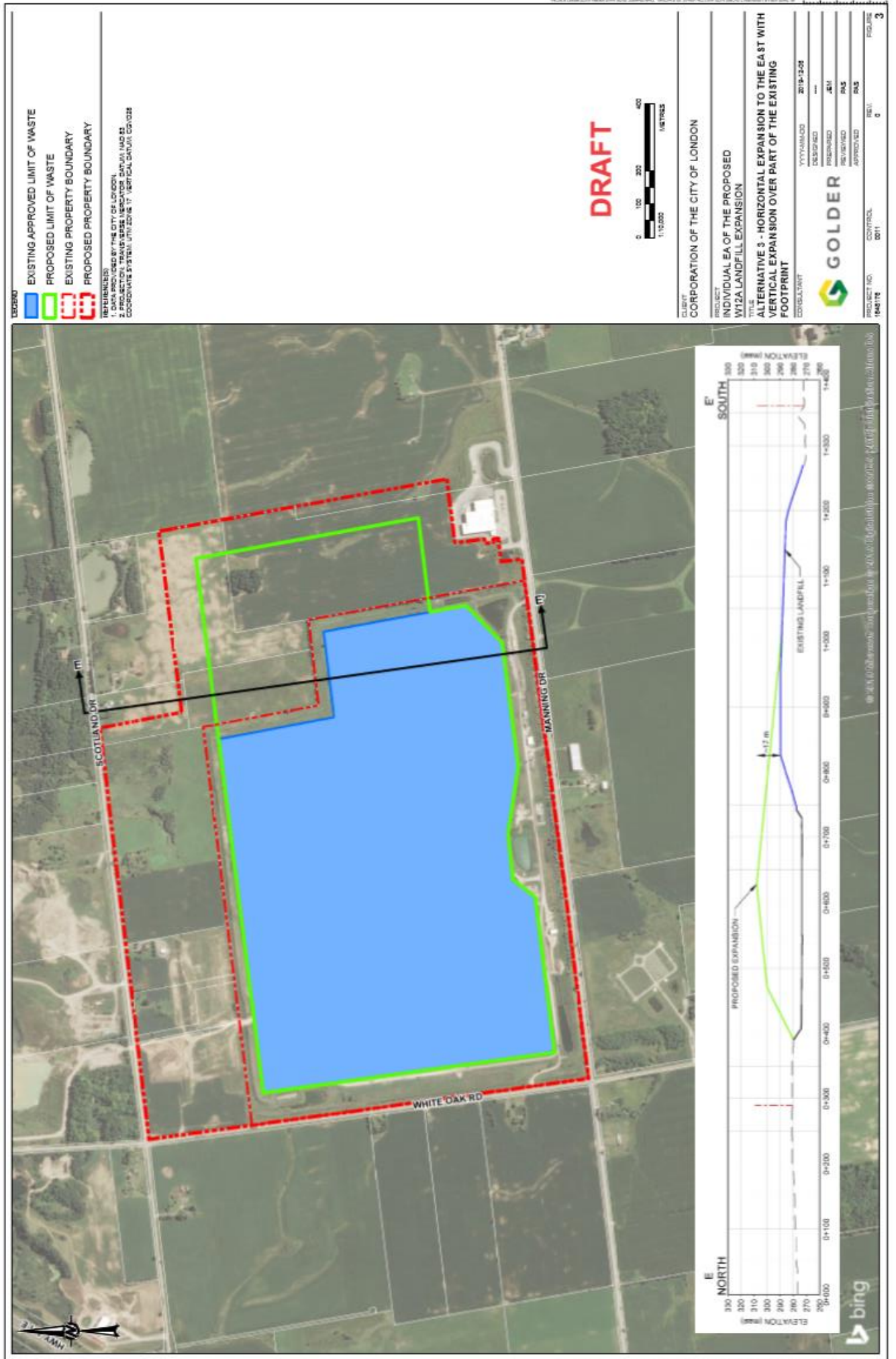


Table 2 – Preliminary Summary of W12A Landfill Expansion Alternative Methods

Design Concept	Existing Landfill	Alternative 1: Vertical Expansion	Alternative 2: Vertical and Northern Expansion	Alternative 3: Vertical and Eastern Expansion
Total Footprint Area (ha)	107	107	134	136
Average Height of Peak above Ground (m)	9	35	26.5	26
Volume of Excavation (m ³)	0	0	2,040,000	850,000

Next Steps

The remaining tasks and schedule to complete the EA are summarized in Table 3.

Table 3 – Schedule and Remaining Tasks to Complete EA

Task	Timeline	Comments
Selection of Preferred Alternative	<ul style="list-style-type: none"> December 2019 to February, 2020 	<ul style="list-style-type: none"> Complete studies and compare alternatives Open house in February to present results 2nd First Nations Workshop
Detailed Assessment of Preferred Alternative	<ul style="list-style-type: none"> March to May, 2020 	<ul style="list-style-type: none"> Detailed assessment of landfill and management of leachate Consideration of Climate Change Open house in May to present results
Prepare Preliminary Draft EA Report	<ul style="list-style-type: none"> June to August 2020 	<ul style="list-style-type: none"> Prepare preliminary draft EA report and send to MECP for comments
Prepare Draft EA Report	<ul style="list-style-type: none"> September to December 2020 	<ul style="list-style-type: none"> Update report based on comments and prepare Draft EA report Review of Draft by MECP, GRT, Stakeholder Council Approval
Formal Submission of EA Documentation	<ul style="list-style-type: none"> January 2021 	<ul style="list-style-type: none"> Publish required notices and submit to MECP
Minister Decision	<ul style="list-style-type: none"> February 2021 to July 2021 	<ul style="list-style-type: none"> The MECP process requires the Minister to make a decision on whether to approve or reject an EA within 30 weeks of submission. This includes the MECP public and agency review period. A decision by the Minister after 30 weeks is still valid.

PREPARED BY:	
MIKE LOSEE, B.SC., DIVISION 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 – Amended Terms of Reference Approval

- c Wesley Abbott, Technical Project Manager

Appendix A
Amended Terms of Reference 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.

- 2 -

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.


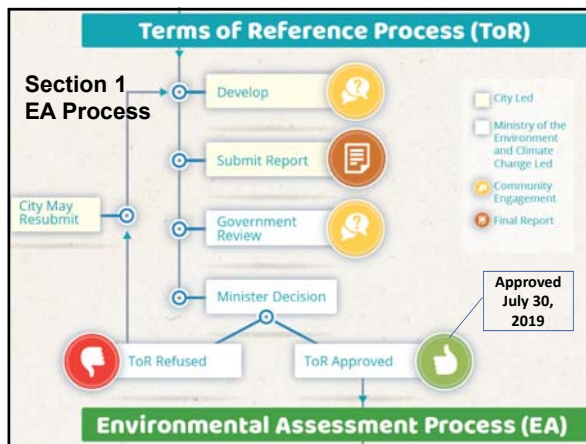
Dated the 30 day of July, 2019 at TORONTO.


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

Why Waste?

Background and Status on: Environmental Assessment Process

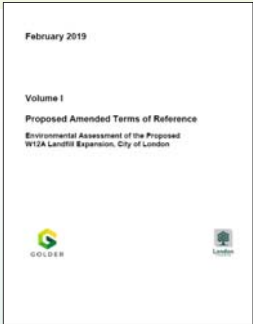

**Waste Management Working Group
December 18, 2019**

Why Waste?

Proposed Amended ToR


- Key step...
 - Confirms landfill expansion is most appropriate option
 - Establishes waste quantities that need to be managed
- Over 20 commitments during EA

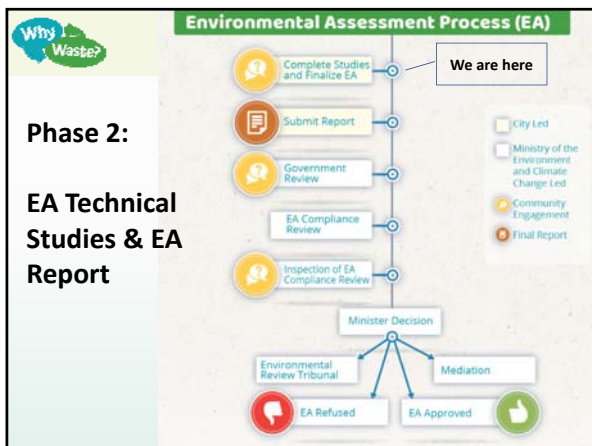



Why Waste?

Sample of Commitments

- 60% residential waste diversion target by 2022
- Prepare detailed work plans for review by appropriate GRT members
- Various community engagement commitments
- Evaluate capability of WTPP to continue to receive leachate
- Consideration of climate change
- Undertake cumulative impact assessment
- Post-closure commitments to be described in the EA Report

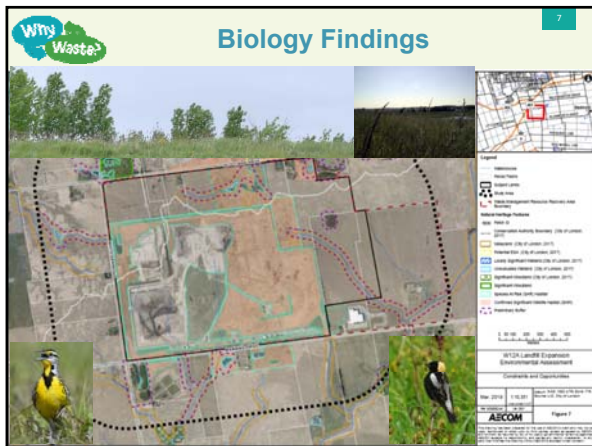




EA Studies

field work nearly complete
 comparison of alternatives underway

Category	Proposed Environmental Components	
	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
	Agriculture	• Agriculture
Social	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
Technical	Visual	• Visual
	Design and Operations	• Technical Considerations • Financial Considerations
	Transportation	• Traffic



Why Waste?

Hydrogeology

9

Drilling Boreholes

Excavate Test Pit

Why Waste?

Alternative Method 1

10

Additional Buffer

Existing Landfill

Increase height

Why Waste?

Alternative Method 1

11

CROSS SECTION

CROSS SECTION

Why Waste?

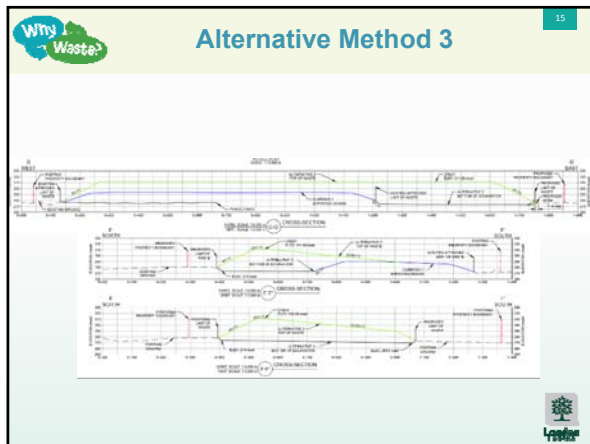
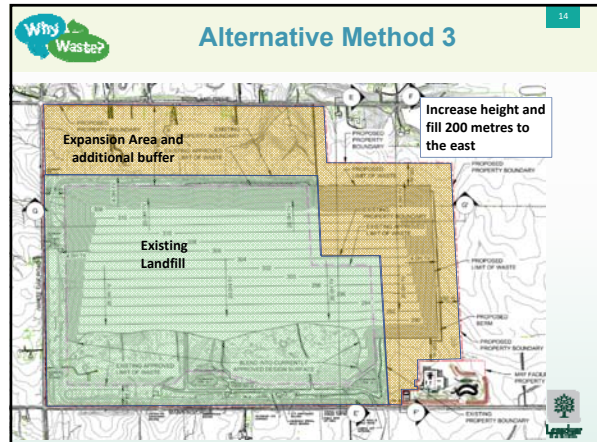
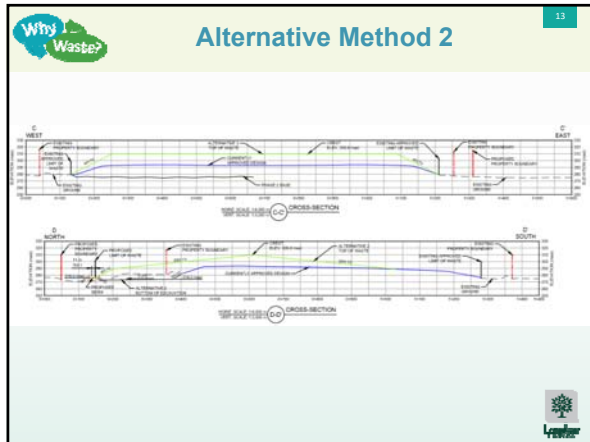
Alternative Method 2

22

Expansion Area and additional buffer


Existing Landfill

Increase height and fill 200 metres to the north




Proposed Schedule


Time Frame	Task
Dec 2019 to February 2020	Selection of Preferred Alternative (includes open house)
March to May 2020	Detailed Assessment of Preferred Alternative (includes Open House)
June to August 2020	Preliminary Draft EA Report
September to December 2020	Draft EA Report
January 2021	Formal Submission of EA Documentation
February to July 2021	MECP Approval process



Community Engagement

- Two Open Houses
- Project Website
- Direct Mailings (e.g., residents within 2 km of Landfill, project mailing list, etc.)
- Community requests for meetings
- Waste Management CLC, W12A Landfill PLC, First Nations & GRT
- Traditional & Social Media
- PPM at CWC





Recommendation

18

- a) The Report **BE RECEIVED** for information;
- b) The three Alternative Methods for the proposed expansion of the W12A landfill **BE SUPPORTED IN PRINCIPLE** for release to the public for the upcoming Open Houses tentatively scheduled for February 2020; it being noted that the three Alternative Methods are very similar to the ones that have been before the Waste Management Working Group, Civic Works Committee, Council and the community as design concepts; an
- c) The Minutes from the December 18, 2019 Waste Management Working Group include this entire report as an appendix to ensure that the alternative methods are before the Civic Works Committee on January 7, 2020.

