

**6TH REPORT OF THE**  
**ADVISORY COMMITTEE ON THE ENVIRONMENT**

Meeting held on May 3, 2017, commencing at 12:16 PM, in Committee Room #4, Second Floor, London City Hall.

**PRESENT:** S. Ratz (Chair), M. Bloxam, S. Hall, M. Hodge, J. Howell, L. Langdon, G. Sass, T. Stoiber, D. Szoller and A. Tipping and J. Bunn (Secretary).

**ABSENT:** K. Birchall, S. Brooks, R. Harvey and N. St. Amour.

**ALSO PRESENT:** W. Abbott and J. Stanford.

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**I. CALL TO ORDER**

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

**II. SCHEDULED ITEMS**

2. Proposal on How to Increase Textile Recycling in London

That the attached presentation from S. Langer and K. Desjardins, Diabetes Canada, with respect to a proposal related to increasing textile recycling in London BE REFERRED to the Waste Sub-Committee for further review and follow-up.

3. Early Stages of the Residual Waste Disposal Strategy (Including Environmental Assessment for the expansion of the W12A Landfill) and the Development of the Resource Recovery Strategy

That the attached presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, and W. Abbott, Project Manager, with respect to the early stages of the residual waste disposal strategy (including Environmental Assessment for the expansion of the W12A Landfill) and the development of the resource recovery strategy BE REFERRED to the Waste Sub-Committee for further review.

**III. CONSENT ITEMS**

4. 5th Report of the Advisory Committee on the Environment

That it BE NOTED that the 5th Report of the Advisory Committee on the Environment, from its meeting held on April 5, 2017, was received.

5. 4th Report of the Transportation Advisory Committee

That it BE NOTED that the 4th Report of the Transportation Advisory Committee, from its meeting held on April 4, 2017, was received.

6. Municipal Council Resolution - 4th Report of the Advisory Committee on the Environment

That it BE NOTED that the Municipal Council resolution from its meeting held on April 4, 2017, with respect to the 4th Report of the Advisory Committee on the Environment, was received.

**IV. SUB-COMMITTEES & WORKING GROUPS**

None.

**V. ITEMS FOR DISCUSSION**

7. Update Primer for the Community Energy Action Plan

That the Update Primer for the Community Energy Action Plan from J. Stanford, Director - Environment, Fleet and Solid Waste, BE REFERRED to the Energy Sub-Committee for further review and to prepare a report for the June meeting of the Advisory Committee on the Environment.

8. Update and Next Steps - Review of Impacts from Industrial Sources (Focus on Odour) and Potential Municipal Actions (Primarily South of Highway 401)

That it BE NOTED that the staff report from G. Kotsifas, Managing Director, Development and Compliance Services and Chief Building Official and K. Scherr, Managing Director, Environmental and Engineering Services and City Engineer, dated April 24, 2017, with respect to the update and next steps for the review of impacts from industrial sources (focus on odour) and potential municipal actions (primarily south of Highway 401), was received.

9. Advisory Committee Reception

That it BE NOTED that the Advisory Committee on the Environment held a general discussion with respect to the Advisory Committee reception being held on May 4, 2017.

10. Urban Agriculture Draft Strategy

That it BE NOTED that the Advisory Committee on the Environment held a general discussion with respect to the Urban Agriculture Draft Strategy.

11. Resilient Cities Conference Update - S. Ratz

That it BE NOTED that the Advisory Committee on the Environment held a general discussion with respect to an update on the Resilient Cities Conference.

**VI. DEFERRED MATTERS/ADDITIONAL BUSINESS**

12. (ADDED) The Bees Act

That the Natural Environment Sub-Committee BE REQUESTED to contact P. Kozak, Provincial Apiarist, Ministry of Agriculture, Food and Rural Affairs, to request that the Advisory Committee on the Environment be notified when The Bees Act, R.S.O. 1990, c. B.6 is available for review and public consultation, as it is expected this review will begin later this year.

**VII. ADJOURNMENT**

The meeting adjourned at 2:01 PM.

**NEXT MEETING DATE: June 7, 2017**



## Textile Diversion Program

### Opportunities for collaboration



## Who we are & what we do

- Diabetes Canada has been operating for over 30 years
- Our collections contribute over \$10 million/year to Diabetes Canada to support its mission to end diabetes
- Divert over 100 M lbs of textiles from landfill every year
- We have over 70 municipal partnerships across Canada
- Our organization collects textiles from 1.7M homes, 4,000 textile recycling bins and over 2,900 partnerships
- Proud member of the National Zero Waste Council among many other established and reputable sustainability and environmental organizations across the county



## Importance of textile diversion

Despite all of the organizations involved in textile recycling:

- **85%** of all textiles go to landfill sites across Canada
- Textiles account for **5-11%** of all garbage
- It is estimated that over **1 Billion pounds** of textile waste is going to Ontario's landfill sites every year
- Studies indicate that every consumer in Canada produces **80 pounds** of textile waste per year



## Why don't more people recycle?

Research shows residents are more likely to recycle if:

- It is convenient and accessible
- They have confidence in the organization
- If they are fully educated in what can be donated
- If they know how their donations impact their community
- Only **42%** of the participants in a recent study in Ontario were aware of at least one bin that is very convenient to reach.



## The City of London and Diabetes Canada

### The City of London – The Birthplace of Insulin

In memory of Dr. Frederick Banting, Diabetes Canada would be very proud and deeply appreciative for the opportunity to continue growing our partnership with the City of London, in our mission to **end diabetes**.

Since 2014, Diabetes Canada's current municipal bin placements (which are located at all City of London arenas) have diverted an impressive 131,083 pounds of textiles from the landfill.

In 2015, these bins collected over **57,849 pounds** of textiles  
In 2016 – this number increased to **73,234 pounds** of textiles

Since 2014, the generous residents of the City of London, in partnership with Diabetes Canada have been able to divert over **959,955 pounds** of textiles from the landfill.



## The City of London and Diabetes Canada Building Upon our Current Relationship

### Social Impact through our pilot program



#### Social Impact:

Our current textile collections in the City of London have allowed Diabetes Canada to send over **128 children** to our D-Camp program. D-camp is a medically supervised camp for children that suffer from type 1 diabetes.

While at camp, children have the opportunity to learn about diabetes management in an enriching, diabetes-friendly environment.

#### Building upon our current partnership – opportunities to expand:

##### Strategic Placements:

- City of London Community Centres – 6 prospective sites
- City of London Fire Halls and Police Stations – 9 prospective sites
- City of London Libraries – 5 prospective sites
- City of London Waste Management Sites – 3 prospective sites

Based on our current national collection averages, these prospective sites could potentially divert an additional **230,000 pounds** of textiles from the landfill and would send 30 children to our D-Camp program (conservative estimates).



## Multi-Residential Donation Bins City of Markham



DIABETES  
CANADA

## Multi-Residential Donation Bins

- Placed inside or outside depending on space
- 3 ft. wide x 2 ft. deep x 5.1 ft. tall
- residents only
- Secure and locked
- Serviced weekly
- Collection data tracked



DIABETES  
CANADA

## Diabetes Canada Pilot Program How does it work?

1. Collaborate with City staff to identify best spots
2. Joint communication piece created
3. Sites selected in a specific municipality
4. Bin placement determined
5. Service schedule created
6. Bins are ordered and placed
7. Data collected at each site, information is forwarded to the municipality
8. Social impact & sustainability reports delivered
9. Direct access to local operation and Clothesline rep
10. Program adjusted as needed

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## Municipal branded boxes are available at no cost.



DIABETES  
CANADA

## Benefits of partnering with Diabetes Canada

- Through working with Diabetes Canada and York University, the City of London will be contributing to Canada's first national textile recycling research study
- Potential to divert over 5 million pounds of textiles from the landfill on a yearly basis
- Education and awareness campaign that addresses textile waste and collection efforts
- Significant cost saving for the City of London's waste management infrastructure
- Customized operational service plan to meet the specific needs of the City of London (service runs 7 days a week)
- Diabetes Canada is fully insured, \$2 million liability insurance for each bin placement
- City of London branded textile recycling bins at no additional cost (supplied and maintained by Diabetes Canada)
- Textile collection diversion data provided on provided on an ongoing basis
- Convenient and accessible donation locations to help increase textile waste diversion
- Diabetes Canada's textile recycling program is a FREE service

DIABETES  
CANADA

## Diabetes Canada is proud to partner with:



DIABETES  
CANADA


# Thank you! Any Questions?

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**DIABETES  
CANADA**





## UPDATES - Resource Recovery Strategy and Residual Waste Disposal Strategy

**Advisory Committee on the Environment**  
May 3, 2017

## Overview

1. Starting the City's most significant waste management project since 1975
2. Provincial legislation and regulation continues to evolve
3. One of the lowest cost, integrated waste management systems, in Canada
4. 45% waste diversion
5. About 8 years of waste disposal capacity remains






## 2 Major Projects

Processes are Different	
<b>Resource Recovery Strategy</b>	London driven but must address new Provincial strategy
<b>Residual Waste Disposal Strategy</b>	Provincial Environmental Assessment process but must address local needs


  

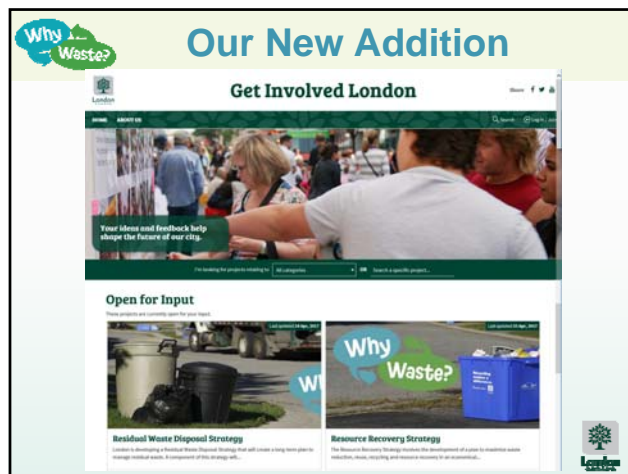
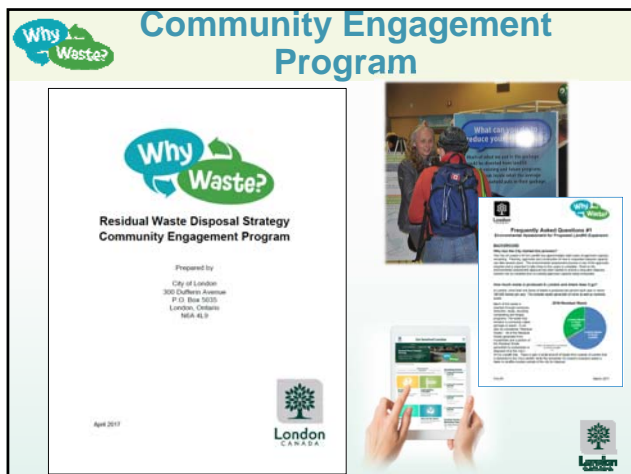
Common Elements	
Community Engagement	Reporting Structure
Guiding Principles	Information and Data

## Council Direction – February 2017

1. A general framework for the community engagement was approved
2. Solicit feedback on 11 Draft Guiding Principles
3. Solicit feedback on 4 key parameters as part of Terms of Reference development
4. Canvass municipalities responsible for waste management within the proposed service area to determine interest in using any future waste disposal or future resource recovery facility
5. Further reports to CWC via the WMWG





**Why Waste?**  
**Community Engagement Program**

**1. Who will be consulted?**

**2. What is the Reporting Structure and Information Flow?**

London

**Why Waste?**  
**1. Who**

General Public	Government Review Team	Indigenous Communities
<ul style="list-style-type: none"> <li>Interested residents, businesses and groups</li> <li>City of London Advisory Committee</li> <li>W12A Landfill PLC</li> <li>Waste Management CLC (new)</li> </ul>	<ul style="list-style-type: none"> <li>Environment and Climate Change</li> <li>Agriculture, Food and Rural Affairs</li> <li>Natural Resources and Forestry</li> <li>UTRCA &amp; KCCA</li> <li>MLHU</li> </ul>	<ul style="list-style-type: none"> <li>engage indigenous communities as early as possible</li> <li>facilitate their involvement in the process in ways that meet their needs</li> </ul>

**Why Waste?**

## 1. Who

Includes:

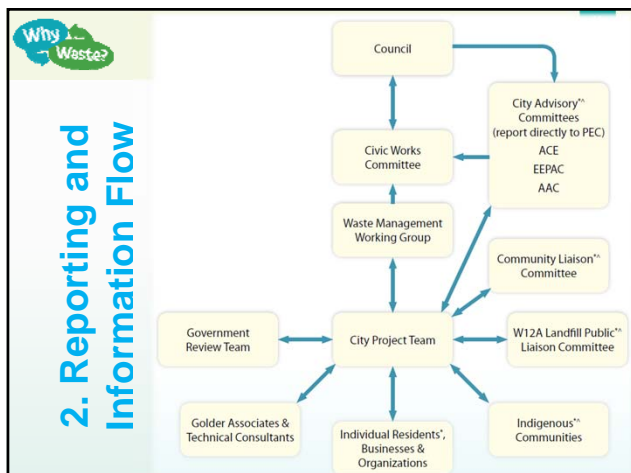
- W12A Landfill PLC
- W12A landfill neighbours (275 letters)

**Why Waste?**

## 1. Who

### New - Waste Management Community Liaison Committee

- Informal sounding board for City staff
- Represents diverse views
- Provides input on public materials
- Assistance in reviewing issues received from the community, as appropriate.

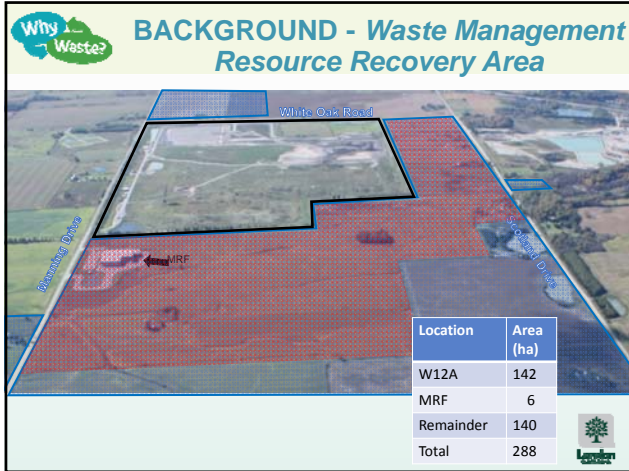


**Why Waste?**

## BACKGROUND - Waste Management Resource Recovery Area

Date	Event
1969 to 1972	• W12A Landfill Location Selection
1973	• Environmental Approvals
1974	• Planning Approvals
1977	• Begin Operations
1991 to 1993	• Westminster Town Annexation Process
2001 to 2002	• Major Redesign/Improvements of Landfill
2005 to 2008	• Area Plan (long term planning study)
2009	• Special Policy Area added to Official Plan • Community Engagement and Mitigative Measures Program Approved
2015	Development of Residual Waste Disposal & Resource Recovery Strategies Approved
2017	Proposed Landfill Expansion Process Begins

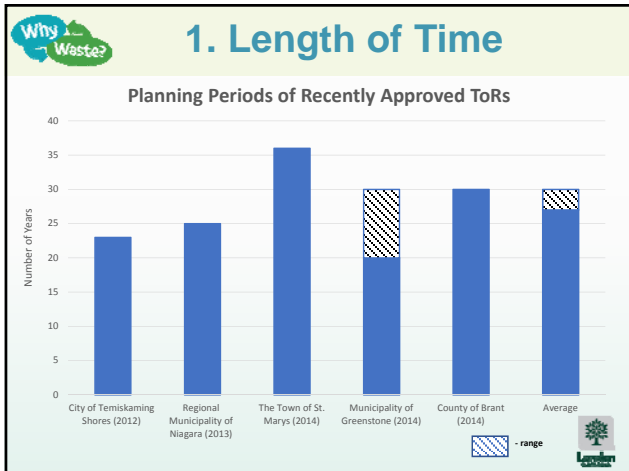




### Why Waste? Residual Waste Strategy

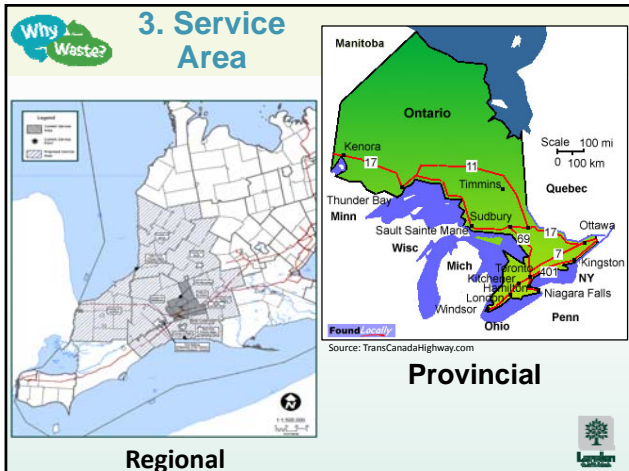
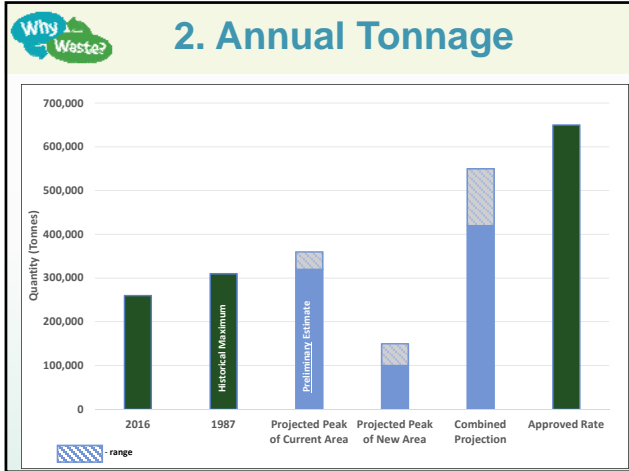
**Proposed Expansion of W12A Landfill**

1. Expand to 2050 (25 years beyond existing capacity).
2. Place limits on annual tonnage that can be landfilled.
3. Consider allowing neighbouring municipalities to use new/expanded facilities.
4. Commit to increasing residential waste diversion from 45% to 60%.



### Why Waste? 1. Length of Time

Considerations	New Disposal Planning Periods (years)			
	20	25	30	35
Consistent with Other EAs	✓	✓	✓	✓
Consistent with Waste-Free Strategy	✓	✓	✗	✗
MOECC Comments	✓	✓	✗	✗
Understanding of Community Considerations	✓	✗	✗	✗
Financial Considerations	✗	✓	✓	✓



### Why Waste? 3. Service Area

Considerations	Service Area		
	Existing	Regional	Provincial
Consistency with Current Approach	✓	✓	✗
Geographic Location (waste shed)	✗	✓	✗
Final Draft Strategy for a Waste-Free Ont.	✗	✓	✓
Provincial Shortfall in Disposal Capacity	✗	✓	✓
Publically-owned Disposal Option	✗	✓	✓
Community Support	✓?	✓?	✗
Local Nuisance Impacts	✓	✗	✗
Financial Benefit	✗	✓	✓
Backup/Contingency Disposal Capacity	✗	✓	✓
Ease of Approvals	✓	✓	✗

**Why Waste?**

### 4. Determining Amount of Residual Waste

**By weight**

Category	Percentage
Organics	45%
Garbage	30%
Other Recyclable Materials	15%
Blue Box Recyclables	10%

Curbside Collection

Generally single family homes, duplexes, townhomes, condos

**Direction from Council (part of Resource Recovery strategy):**

1. Reduce avoidable food waste
2. Handle "Green Bin" organics soon
3. What are near term options?
4. What are longer term options?

**Why Waste?**

### 4. Determining Amount of Residual Waste

**Food Waste Avoidance**

**Home Composting**

**Community Composting**

**Source Separated Organics**

**Facility Separated Organics**

**Waste Conversion**

**Why Waste?**

### 4. Determining Amount of Residual Waste

December 2016 FINAL DRAFT

**Interim Diversion Goals (all solid waste):**

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

**Visionary Goals:**

1. Zero Waste
2. Zero GHG emission from the waste sector

**Why Waste?**

### 4. Determining Amount of Residual Waste

**Achievable with Today's Technologies**

Component	Diversion Rate	Comment
Existing Diversion	45%	• Blue Box, leaf/ yard, depots, etc.
Source separated organics (Green Bin? Other?)	8% to 12%	• May need to go to biweekly garbage
Other Programs	3% to 5%	• Reduction, more captured, more items
<b>Total</b>	<b>56% to 62%</b>	

**Why Waste?** **4. Determining Amount of Residual Waste**

Anaerobic Digestion

Solid Recovered Fuel (SRF)

Waste Conversion (e.g., gasification)

Mixed Waste Processing / Mechanical/Biological Treatment (MBT)

Region of Durham EFW (using combustion)

**Why Waste?** **4. Determining Amount of Residual Waste**

**Achievable with Tomorrow's Technologies?**

Component	Diversion Rate Recovery Rate
Existing Diversion (regulated?)	45%
Mechanical/Biological Treatment (MBT) <ul style="list-style-type: none"> <li>material and energy recovery</li> <li>anaerobic digestion</li> </ul> Waste conversion technologies <ul style="list-style-type: none"> <li>gasification, gas phase reduction, pyrolysis</li> </ul>	15% to 45%
<b>Total</b>	<b>60% to 90%</b>

**Why Waste?** **Key Stages in TOR Phase Community Engagement**


Stage	When?
<b>Community Engagement – Overall</b>	<b>March 2017 to April 2018</b>
<b>1. Announcement of Project</b>	March/April 2017
<b>2. Confirm Project Scope</b> <ul style="list-style-type: none"> <li>Introduction of project</li> <li>Feedback on overall direction</li> </ul>	April - July 2017
<b>3. Develop Landfill Expansion Alternatives</b> <ul style="list-style-type: none"> <li>Review of landfill alternatives</li> <li>Input on technical studies</li> </ul>	August – Nov. 2017
<b>4. Feedback on Draft TOR</b>	Dec. 17 - Feb. 2018

**Why Waste?** **Key Stages in Resource Recovery Community Engagement**

Stage	When?
<b>Community Engagement – Overall</b>	<b>March 2017 to March 2018</b>
<b>1. Announcement</b>	March/April 2017
<b>2. Discovery</b> <ul style="list-style-type: none"> <li>Choices, Ideas, Transition</li> <li>What is practical? What is possible?</li> </ul>	May - July 2017
<b>3. Develop 60% Diversion by 2022 Plan</b> <ul style="list-style-type: none"> <li>Feedback on implementation plan</li> </ul>	August – Nov. 2017
<b>4. Develop Overall Long Term Resource Recovery Strategy</b> <ul style="list-style-type: none"> <li>Feedback on long term strategy</li> </ul>	August – Feb. 2018

### Why Waste? How Can ACE Participate?


- Chair sign up on behalf of ACE
- Individual members/groups sign up
- City staff meet with ACE Subcommittee, as required
- City staff meet with ACE at key milestones
- Answer GI Questions



### Why Waste? ADDITIONAL SLIDES

**NOTE** - The following slides are part of the overall presentation.

However to accommodate available timeframes with different audiences some slides may be provided in hard and/or electronic copy and not referred to in the verbal presentation.



### Why Waste? Years of Local Engagement



### Why Waste? Draft Guiding Principles

- Be Socially Responsible
- Ensure Financial Sustainability
- Ensure Impacts of Residual Waste Disposal are Minimized
- Ensure Responsibility for Waste Management
- Implement more Resource Recovery Solutions
- Make the Future System Transparent



**Why Waste?** **Draft Guiding Principles**  
(continued)

- Make Waste Reduction the First Priority
- Prioritize our Community’s Health and Environment
- Support Development of Business (contractual) Partnerships
- Support Development of Community Partnerships
- Work to Mitigate Climate Change Impacts



**Why Waste?** **Steps in Environmental Assessment Process**

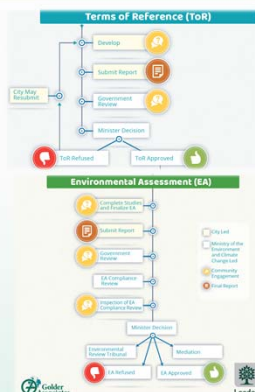
Two Phase Process

**Phase 1 – Terms of Reference (TOR)**

- Work plan for EA


**Phase 2 – Environmental Assessment (EA)**

- Complete studies to assess impacts
- Compare alternatives



**Why Waste?** **Develop ToR Tentative Reporting Schedule**

Step	When
<b>Community Engagement</b>	<b>March 2017 to April 2018</b>
Prepare/Review Draft ToR	May 2017 to Feb. 2018
Interim Update to CWC	December 2017
Prepare Proposed Final ToR	March/April 2018
WMWG Meetings	May, Sept. Dec. 2017
WMWG/Committee (hold PPM) & Council	March/April 2018
Council approved Proposed ToR to MOECC	May 2018




**Why Waste?** **Future EA Activities & Reporting Schedule**

Step	When
Minister ToR Approval	September 2018
All EA activities + All community engagement	October 2018 to December 2019
Prepare Draft/Proposed EA	January to June 2020
Committee / Council Approval	June 2020
Submission to MOECC	July 2020




 <b>Resource Recovery Strategy Schedule</b>	
Step	When
Community Engagement	March 2017 – March 2018
Provincial Actions (inc. Organics Action Plan and Recycling Funding)	March 2017 – April 2018
Updates to WMWG/CWC/ Council – General Direction	Sept – Nov. 2017
CWC/Council – final approval	March 2018



**#1 - Action Required**

**Please Rank the Draft Guiding Principles**  
 Please indicate what you feel are the most important principles for the development of London's Residual Waste Disposal Strategy, including a proposed landfill expansion **AND** Resource Recovery

**Instructions:**

- Drag and drop the options into the space below. The higher the principle is in the rectangle, the higher the ranking. Please move all principles into the rectangle before submitting.
- Any changes, additions, deletions




**#2 - Action Required**


**The Residual Waste Disposal Strategy, including a proposed landfill expansion will:**


Find solutions that will manage Residual Waste (garbage) until 2050 (25 years beyond the current approved capacity of the W12A Landfill)

- Agree
- Disagree, should be longer period
- Disagree, should be shorter period

Look at the possibility of allowing neighbouring municipalities to use any new waste disposal facilities developed by the City of London;

- Agree
- Undecided
- Disagree





**#2 - Action Required**

Place limits on the amount of Residual Waste that will be accepted at any new waste disposal facilities;

- Agree
- Undecided
- Disagree

Commit to increasing the current household waste diversion rate to 60% by 2022 from the current rate of 45%.

- Agree
- Undecided
- Disagree

Any comments on the above components?

