


**Why Waste?**

# UPDATES - Resource Recovery Strategy and Residual Waste Disposal Strategy


Environment and Ecological Planning Advisory Committee  
June 22, 2017



**Why Waste?**

## 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




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## 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



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## 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





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## Community Engagement Program

Residual Waste Disposal Strategy  
Community Engagement Program

Prepared by  
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April 2017

**Why Waste?**

## Our New Addition


Get Involved London

Your ideas and feedback help shape the future of our city.

Open for Input

**Residual Waste Disposal Strategy**  
London is developing a Residual Waste Disposal Strategy that will ensure a long-term plan to manage residual waste. As a component of this strategy, we...

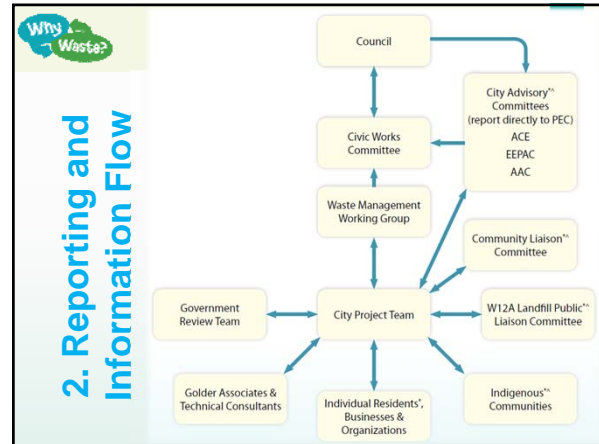
**Resource Recovery Strategy**  
The Resource Recovery Strategy focuses the development of options to maximize waste reduction, reuse, recycling and resource recovery for the community.



**Why Waste?**

## 1. Who

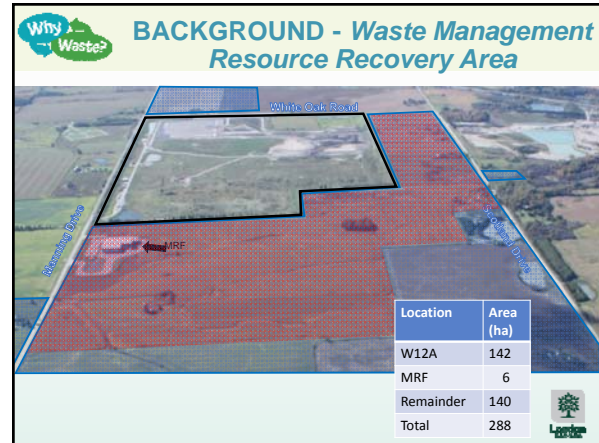
General Public	Government Review Team	Indigenous Communities
<ul style="list-style-type: none"> <li>Interested residents, businesses and groups</li> <li>City of London Advisory Committees</li> <li>W12A Landfill PLC</li> <li>Waste Management CLC (new)</li> </ul>	<ul style="list-style-type: none"> <li>Environment 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>



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## 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

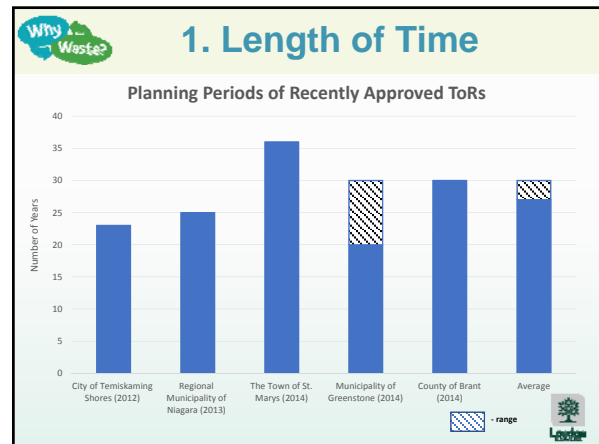


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## Residual Waste Strategy

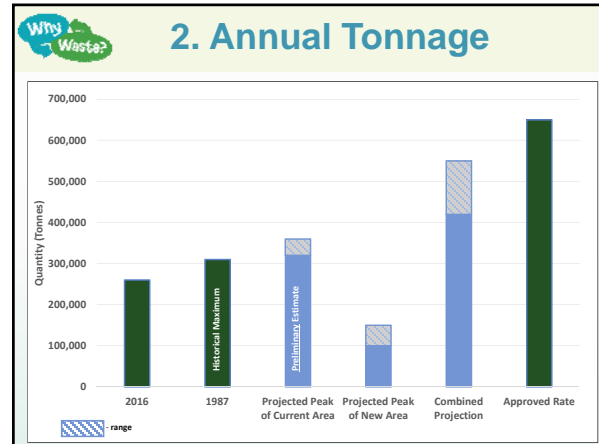
### Proposed Expansion of W12A Landfill

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



**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	✗	✓	✓	✓



**3. Service Area**

**Current:**

1. Solid non-hazardous waste
2. Municipal hazardous and special waste
3. Recyclables (Provincial)

**3. Service Area**

**Provincial**

**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	✗	✓	✓
Publicly-owned Disposal Option	✗	✓	✓
Community Support	✓?	✓?	✗
Local Nuisance Impacts	✓	✗	✗
Financial Benefit	✗	✓	✓
Backup/Contingency Disposal Capacity	✗	✓	✓
Ease of Approvals	✓	✓	✗

**4. Determining Amount of Residual Waste**

**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?

Generally single family homes, duplexes, townhomes, condos

**Why Waste?**

### 4. Determining Amount of Residual Waste

- Food Waste Avoidance
- Home Composting
- Community Composting
- Source Separated Organics
- Facility Separated Organics
- Waste Conversion

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### 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

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### 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>	

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### 4. Determining Amount of Residual Waste

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 March 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 Technical Studies

- Archaeology/Heritage
- **Atmosphere (air quality, dust, odour & noise)**
- **Biology (aquatic and terrestrial ecosystems)**
- Design/Operations
- Economic/Social
- **Hydrogeology (groundwater)**
- **Hydrology (surface water)**
- Leachate Treatment
- Planning (agricultural, Land Use)
- Traffic
- Visual Impact




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

### Why Waste? How Can EEPAC participate?


- Chair sign up on behalf of EEPAC
- Individual members/groups sign up
- City staff meet with EEPAC at key milestones
- Answer GI Questions (individually and/or as a group)



### 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? 1. Who

Includes:

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



**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.



**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



**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



**Steps in Environmental Assessment Process**

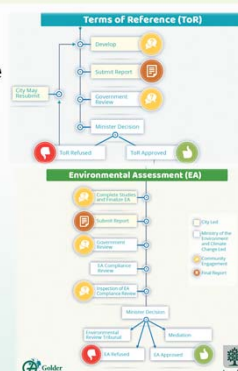
Two Phase Process

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

- Work plan for EA


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

- Complete studies to assess impacts
- Compare alternatives



**Develop ToR Tentative Reporting Schedule**

Step	When
Community Engagement	March 2017 to April 2018
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



**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




Resource Recovery Strategy Schedule	
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?



