



# Draft Proposed Terms of Reference Expansion of the W12A Landfill

**Civic Works Committee**  
**April 17, 2018**



## Outline



- 1. Overview –  
Process to Date**
- 2. Initial Council/  
EA Decisions**
- 3. EA Work Plan**
- 4. Other Updates**
- 5. ToR – Recent/  
Next Steps**

April 5, 2018

Volume I

Draft Proposed Terms of Reference

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





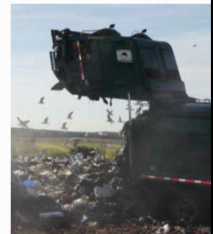
## 1: Overview – Process to Date

- Maintained a visible/transparent process
- Included decided matters of Council
- Addressed various stakeholders
- Made changes/adjustments
- Produced 3 Volumes of work:
  - Vol 1 – Draft Proposed ToR (~130 pages)
  - Vol 2 – Supporting Documentation (~170 pages)
  - Vol 3 – Community Engagement (~1,100 pages)



## 2: Council/EA Initial Decisions

- i. **Expand** W12A Landfill
- ii. Plan to **2050**
- iii. Place **limits on annual tonnage**
- iv. **Allow neighbouring municipalities** to use facilities with Council conditions
- v. Commit to increasing residential **waste diversion from 45% to 60%**



**Why Waste?** 5  

# Expand W12A Landfill

**i. Expansion of the W12A Landfill is the most appropriate disposal option based on:**

- Previous waste plan studies (2008)
- Work completed as part of ToR

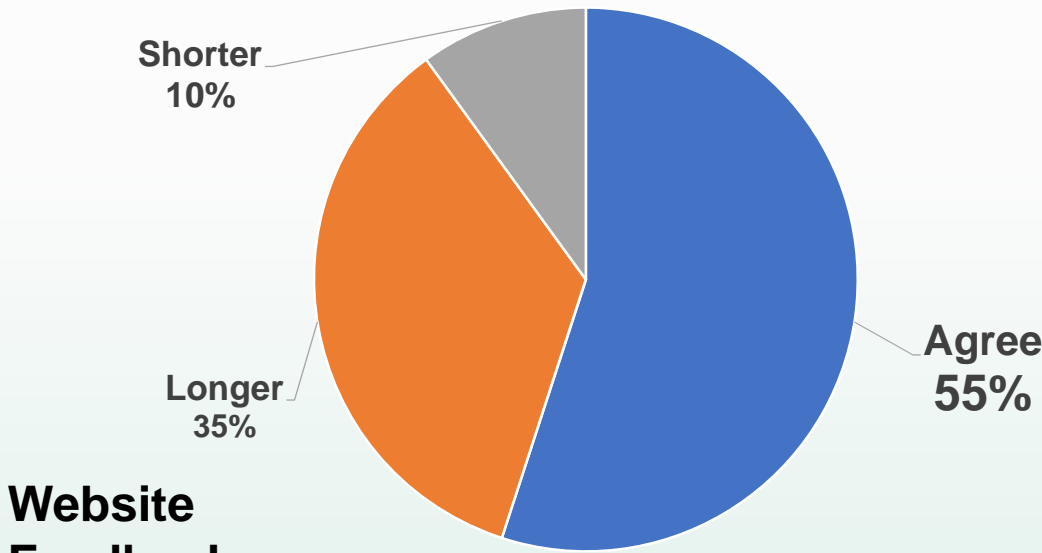
**Table 4.2-1: Confirmatory Screening Assessment of 'Alternatives To' the Undertaking**

Screening Criteria	Group 1: Establish new Greenfield landfill site within the City (Alternatives 1 and 5)	Group 2: Expand the W12A Landfill (Alternatives 2, 3, 4 and 7)	Group 3: Export Waste (Alternative 6)	Do- Nothing Alternative

**Why Waste?**  

# ii. Plan to 2050

**Overall, general support**





### iii. Limits on Annual Tonnage

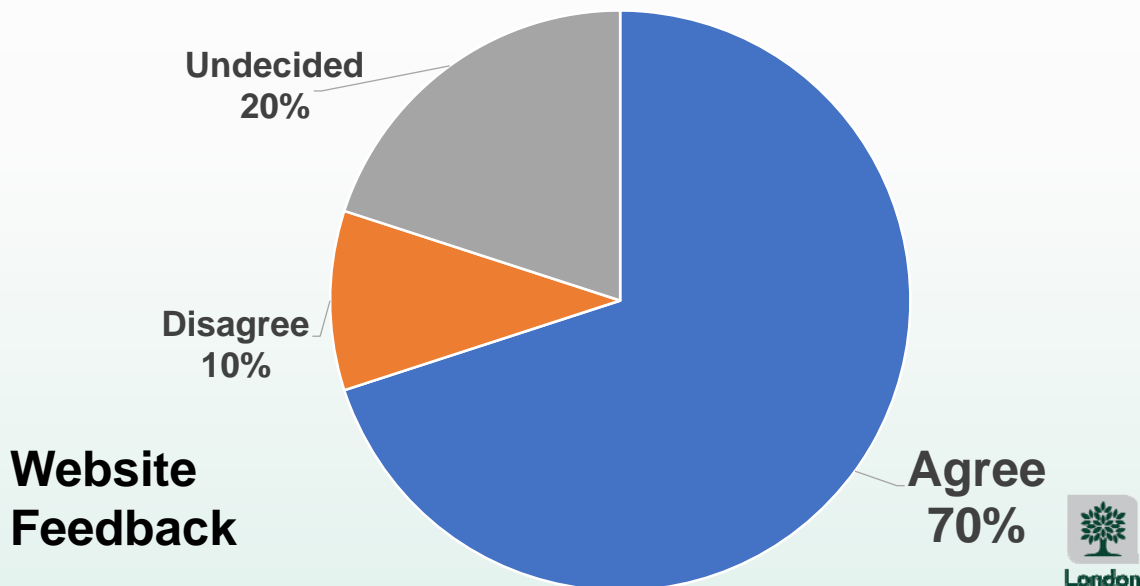
- Current limit = 650,000 tonne/year
- Proposed limit = 500,000 tonne/year

Consideration	Average (Tonnes)	Peak (Tonnes)
Existing Service Area	370,000	380,000
Expanded Service Area	55,000	100,000
Contingency	-	20,000
<b>Total</b>	<b>-</b>	<b>500,000</b>



### iii. Limits on Annual Tonnage

## Overall, general support





## iv. Allow Neighbouring Municipalities

### Feedback from Neighbouring Municipalities - Disposal

#### Responses

- Oxford - not interested
- Lambton/Stratford/St. Marys - interested, unlikely to use
- Most Others – interested, may use depending on cost

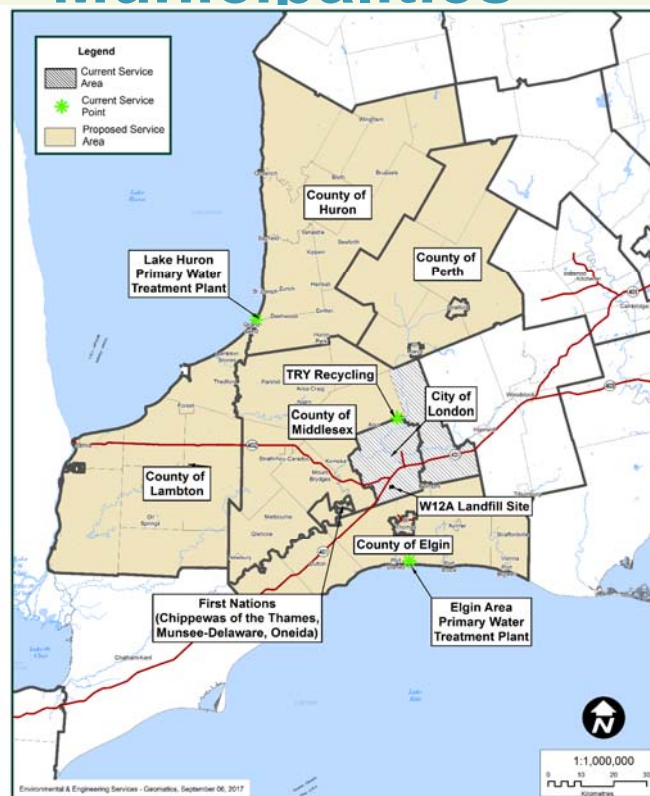
#### Estimated Quantity

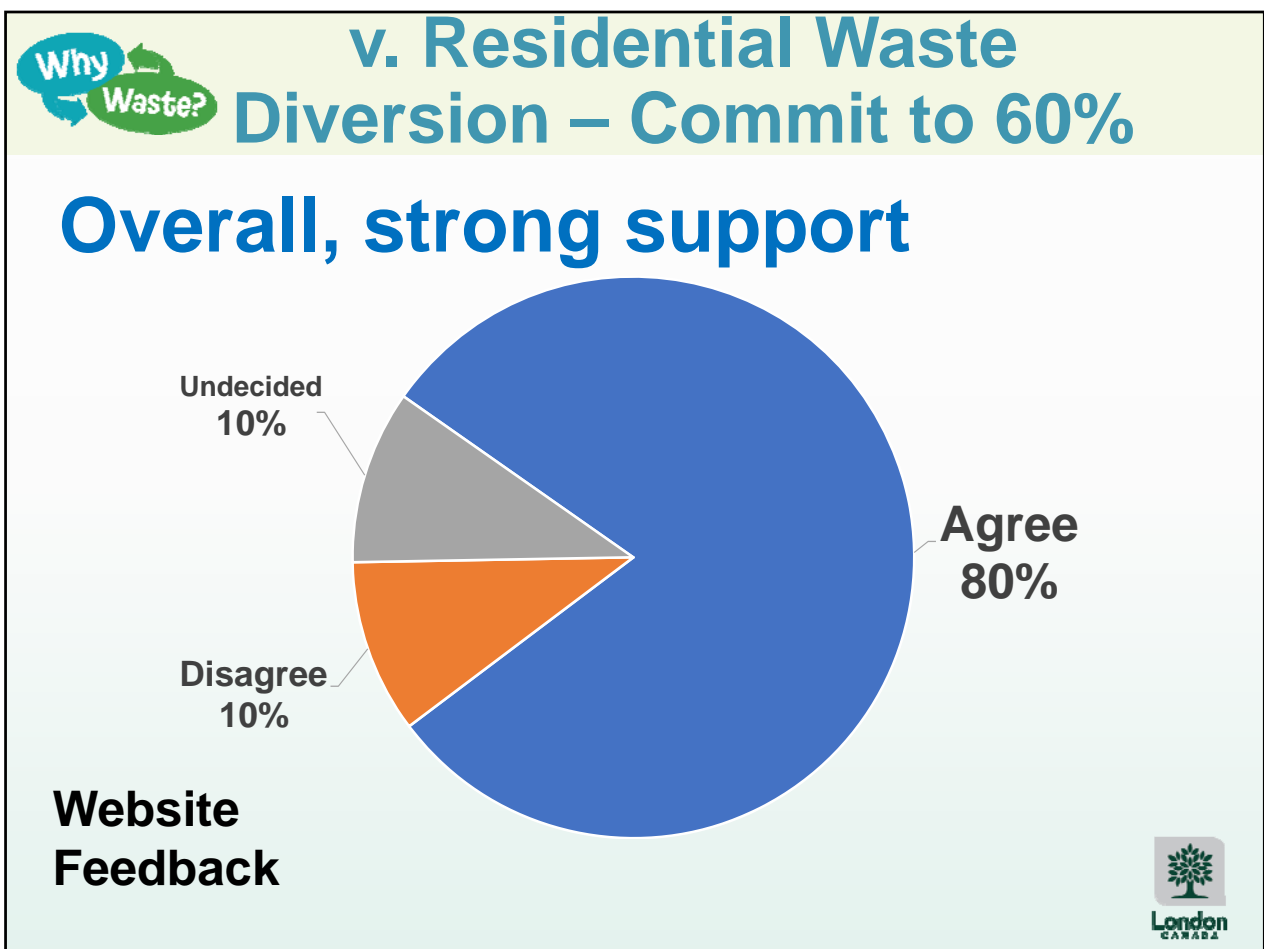
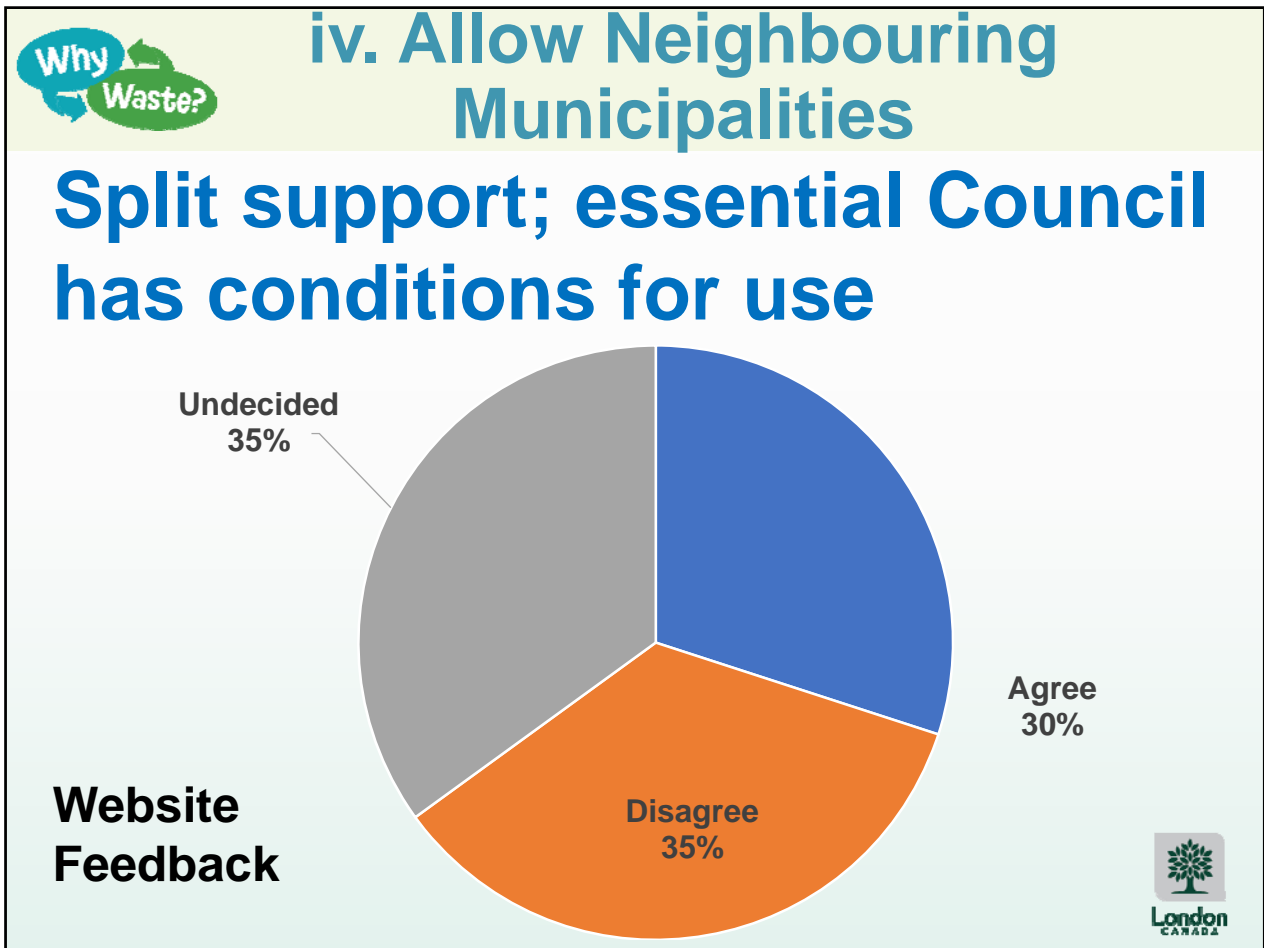
- 55,000 tonnes/year (50% residential, 50% business)
- 20% increase over current W12A Landfill tonnage
- 15% increase of tonnage over 25 year life




## iv. Allow Neighbouring Municipalities

### Disposal: Proposed Service Area for EA













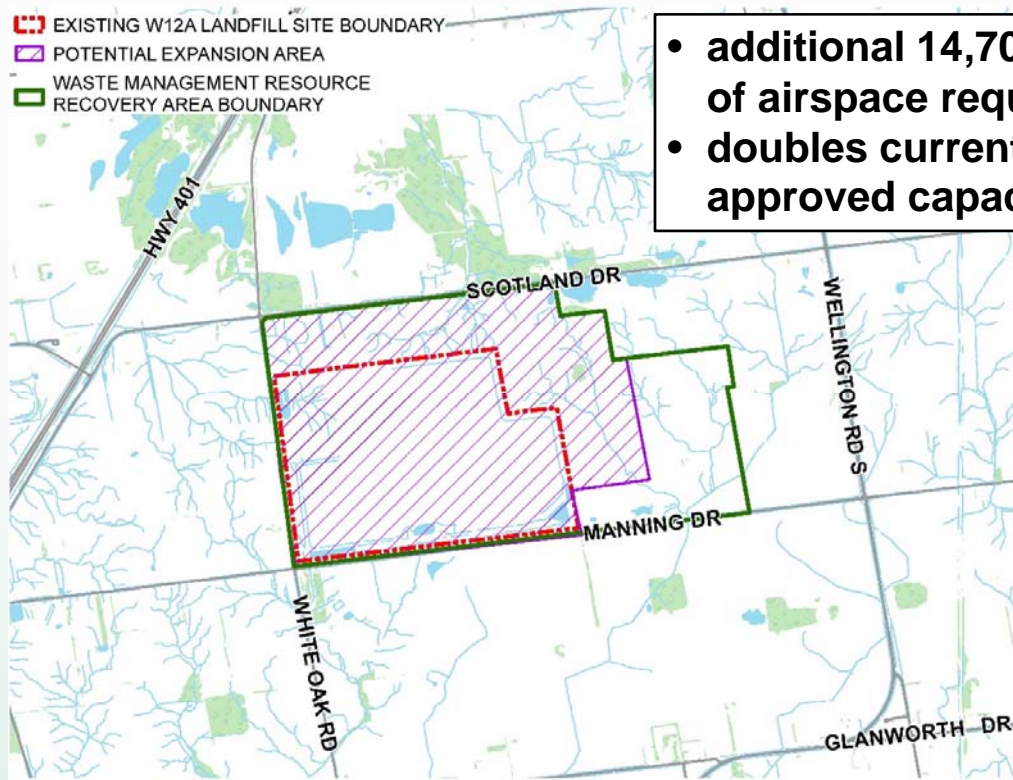
## 3: EA Work Plan

- 1. Expansion Limits**
- 2. Preliminary Design Concepts**
- 3. Studies/ Investigations**




## Expansion Limits

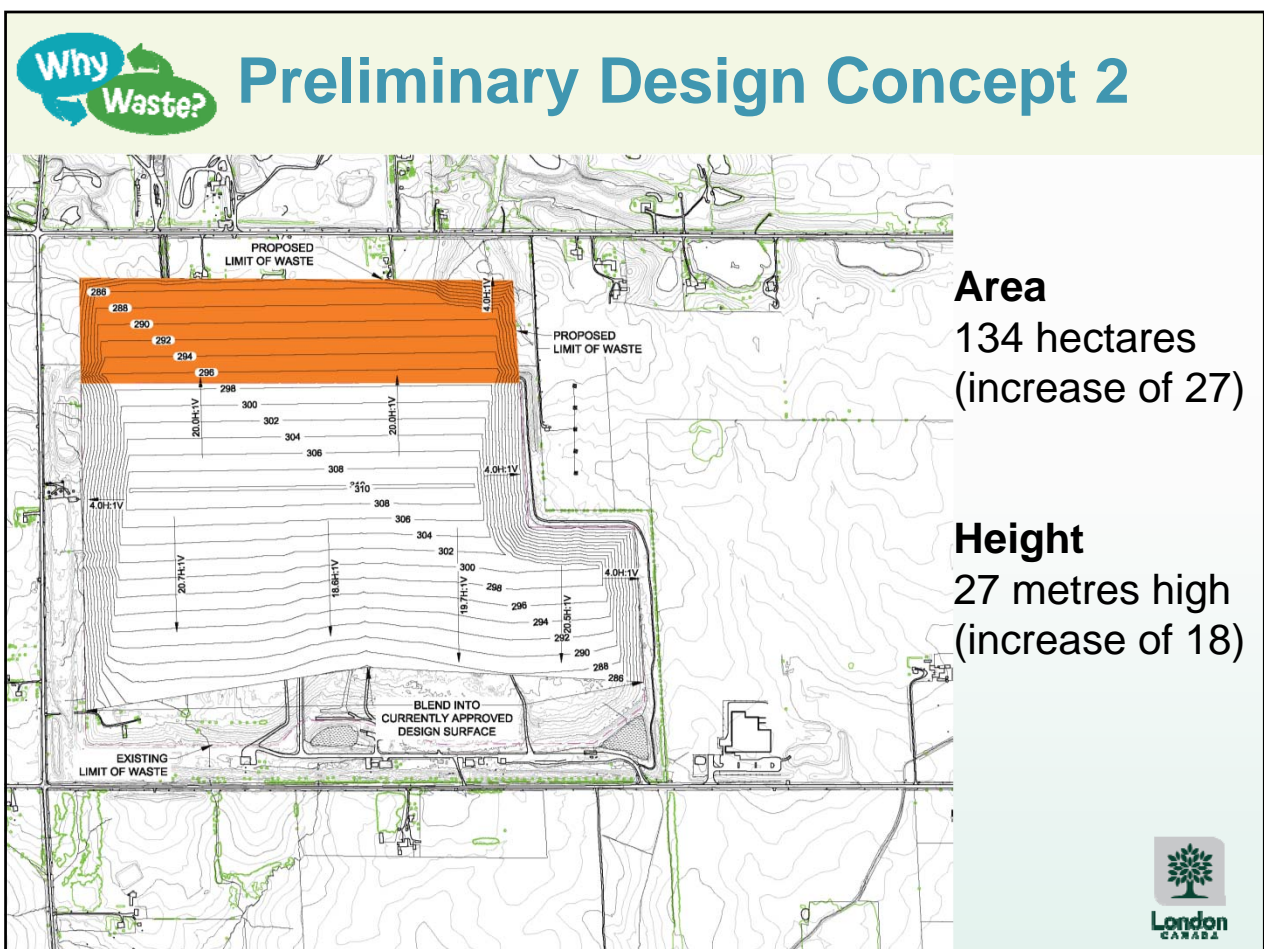
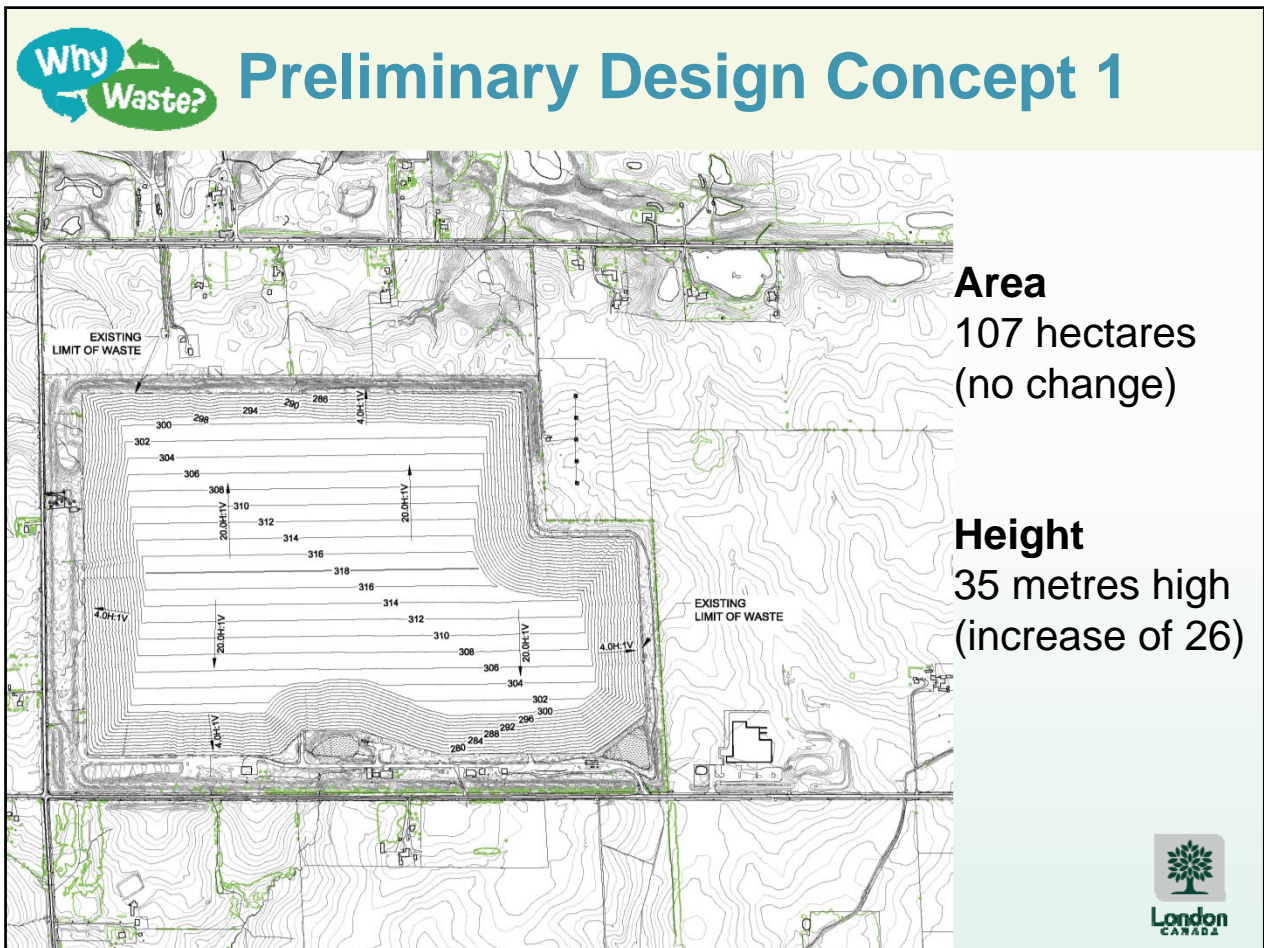


**Legend:**

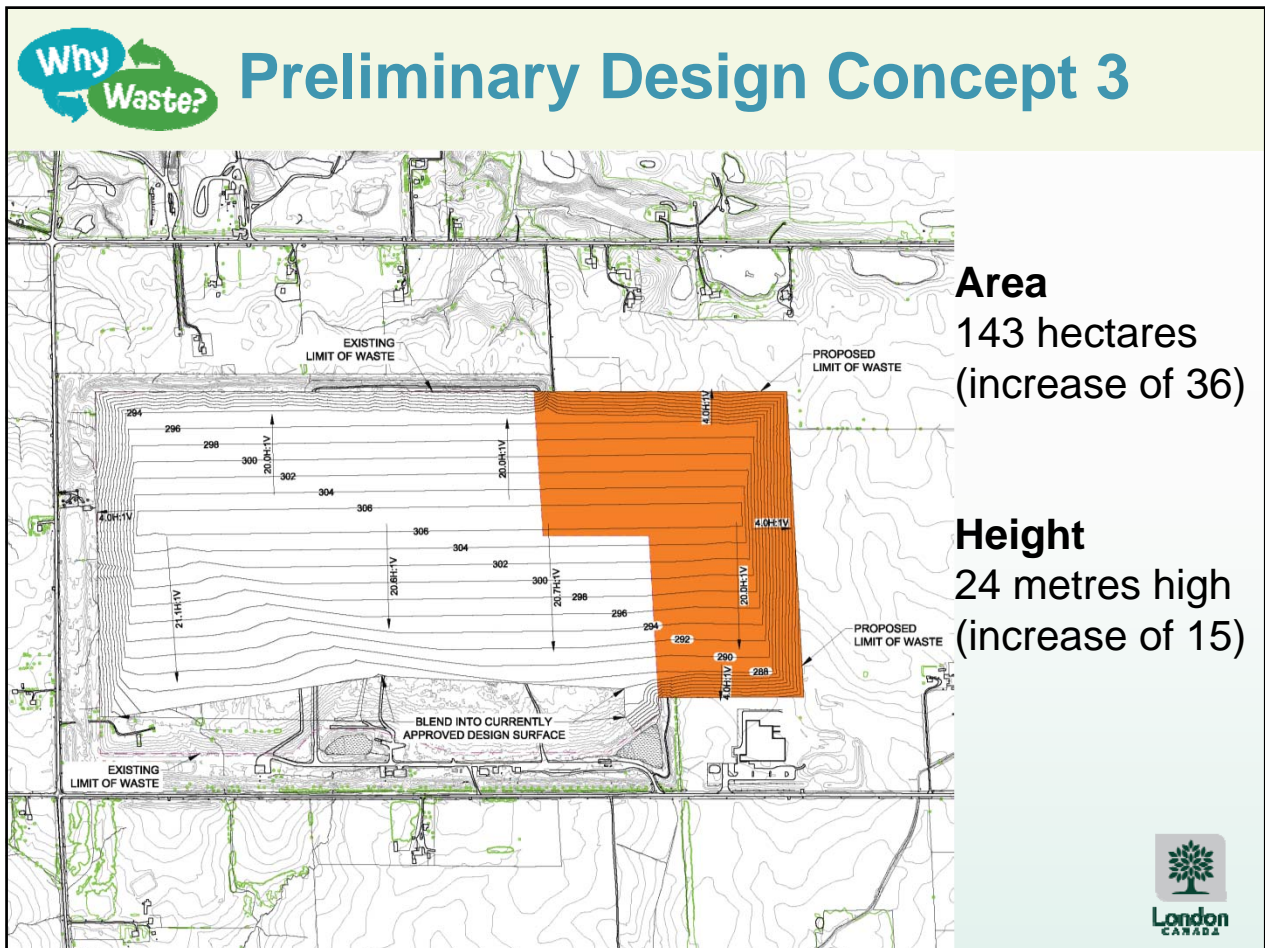
- EXISTING W12A LANDFILL SITE BOUNDARY
- POTENTIAL EXPANSION AREA
- WASTE MANAGEMENT RESOURCE RECOVERY AREA BOUNDARY

- additional 14,700,000 m<sup>3</sup> of airspace required**
- doubles current approved capacity**









Category	Proposed Environmental Components		EA Studies
	Environmental Component	Environmental Sub-components	
Environmental	Atmosphere	<ul style="list-style-type: none"> <li>Air quality (including dust, odour and greenhouse gases)</li> <li>Noise</li> </ul>	<p><b>Top Ranked</b></p> <ul style="list-style-type: none"> <li>Groundwater Quality</li> <li>Aquatic Ecosystems</li> <li>Terrestrial Ecosystems</li> <li>Air Quality</li> </ul> <p><b>Bottom Ranked</b></p> <ul style="list-style-type: none"> <li>Heritage Landscapes</li> <li>Heritage Resources</li> <li>Archaeology</li> <li>Noise</li> </ul>
	Biology	<ul style="list-style-type: none"> <li>Aquatic ecosystems</li> <li>Terrestrial ecosystems</li> </ul>	
	Geology & Hydrogeology	<ul style="list-style-type: none"> <li>Groundwater quality</li> </ul>	
	Surface Water	<ul style="list-style-type: none"> <li>Surface water quality</li> <li>Surface water quantity</li> </ul>	
Social	Agriculture	<ul style="list-style-type: none"> <li>Agriculture</li> </ul>	
	Archaeology	<ul style="list-style-type: none"> <li>Archaeology</li> </ul>	
	Culture	<ul style="list-style-type: none"> <li>Cultural heritage landscapes</li> <li>Cultural heritage resources (including built heritage)</li> </ul>	
	Land Use	<ul style="list-style-type: none"> <li>Current and planned future land uses</li> </ul>	
	Socio-economic	<ul style="list-style-type: none"> <li>Local economy</li> <li>Residents and community</li> </ul>	
Technical	Visual	<ul style="list-style-type: none"> <li>Visual</li> </ul>	
	Design and Operations	<ul style="list-style-type: none"> <li>Technical Considerations</li> <li>Financial Considerations</li> </ul>	
	Transportation	<ul style="list-style-type: none"> <li>Traffic</li> </ul>	

London CANADA



## 4: Other Updates

### 60% Waste Diversion Action Plan



**Organics Management**

- Food waste reduction initiatives
- Home composting
- Community composting
- City wide organics program



**Recyclables**

- Carpet, mattresses and textiles
- Electronics, scrap metal and small metal appliances
- Wooden furniture
- Bulky plastics



**Waste Reduction & Reuse Programs (examples)**

- Waste Reduction Programs: lending libraries, repair workshops
- Community outreach programs: environment days
- Policies and by-laws: landfill bans, reduced garbage limit, pay per container, use of clear bags for garbage, mandatory separation programs

- **Initial Feedback Complete**
- **Request for Information underway**
- **Draft Report in June**





## 4: Other Updates

### Resource Recovery Strategy – focus on technology for 60% and near future



**Waste Conversion**

Thermal or biochemical conversion of waste into synthetic gas, biofuel, biochar, etc.

Requires pre-processing of mixed waste



**Energy-From-Waste (EFW)**

Incineration of waste creating energy and ash

None or limited pre-processing of mixed waste



**Mixed Waste Processing/Mechanical/Biological**

Processing of mixed waste into organic and non-organic portions with recovery of recyclable material (limited)

Organics portion could be landfilled, composted to stabilize the waste prior to landfilling or sent to an anaerobic digester to create biogas and digestate

Non-organic portion could be landfilled or converted to Solid Recovered Fuel (e.g., pellets)





## 5. TOR: Recent & Next Steps

Step	Date	Comments
Preliminary MOECC Screening Review	Feb. to March 2018	<ul style="list-style-type: none"> <li>Draft Proposed ToR takes into consideration MOECC preliminary comments; additional adjustments may be required</li> </ul>
WMWG Review	Feb. 15, 2018	
CWC & Council Approval - Draft	April 17 to April 24, 2018	<b><i>We are here</i></b>



## TOR Next Steps

Step	Date	Comments
Circulate Draft for Comment	April 26 to June 8, 2018	<ul style="list-style-type: none"> <li>Send to Government Review Team</li> <li>Notify stakeholders</li> </ul>
Council Approval Process	June to August, 2018	<ul style="list-style-type: none"> <li>WMWG</li> <li>Public Participation Meeting at CWC Meeting</li> </ul>
MOECC Approval Process	August to late 2018/ early 2019	<ul style="list-style-type: none"> <li>Formal ToR submission (notice to stakeholders)</li> <li>30 day stakeholder review/comment period</li> <li>Minister makes Decision</li> </ul>