

1ST REPORT OF THE
WASTE MANAGEMENT WORKING GROUP

Meeting held on January 18, 2018, commencing at 4:02 PM, in Committee Room #3, Second Floor, London City Hall.

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

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

I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

2. Election of Chair and Vice Chair for the term ending November 30, 2018

That it BE NOTED that the Waste Management Working Group elected Councillor M. van Holst and Councillor S. Turner as Chair and Vice Chair, respectively, for the term ending November 30, 2018.

II. SCHEDULED ITEMS

3. Update Report #7: Proposed Alternative Methods (Alternative Landfill Design Concepts for Expansion)

That it BE NOTED that the Waste Management Working Group received the attached presentation from W. Abbott, Project Manager, Environmental and Engineering Services and J. Stanford, Director, Environment, Fleet and Solid Waste with respect to alternative landfill design concepts for expansion. (2018-E07)

III. CONSENT ITEMS

4. 3rd Report of the Waste Management Working Group

That the 3rd Report of the Waste Management Working Group from its meeting held on September 28, 2017, BE RECEIVED.

5. Waste Management Community Liaison Committee Meeting #3

That the Waste Management Community Liaison Committee Agenda and Summary from its meeting held on October 16, 2017, BE RECEIVED. (2018-C06)

6. Waste Management Community Liaison Committee Meeting #4

That the Waste Management Community Liaison Committee Agenda and Summary from its meeting held on November 20, 2017, BE RECEIVED. (2018-C06)

7. STAFF REPORT – Progress Report #4: Community Engagement Program Update from September 13, 2017 to January 8, 2018

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the staff report dated January 18, 2018, with respect to an Update on the Community Engagement Program from September 13, 2017 to January 10, 2018, BE RECEIVED. (2018-E07)

8. STAFF REPORT – Update Report #8: Programs, Projects and Provincial Activities that will Inform and/or Influence Strategies

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the staff report dated January 18, 2018, with respect to programs, projects and Provincial activities that will inform and/or influence the Resource Recover and Residual Waste Disposal Strategies, BE RECEIVED. (2018-E07)

IV. ITEMS FOR DISCUSSION

9. STAFF REPORT – Update Report #9: Terms of Reference Outline and Next Steps

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the staff report dated January 18, 2018, with respect to an update on the Draft Terms of Reference for the Individual Environmental Assessment (EA) for the expansion of the W12A Landfill. (2018-E07)

V. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

VI. ADJOURNMENT

The meeting adjourned at 5:17 PM.

NEXT MEETING DATE: February 15, 2018

Why Waste?

Alternative Landfill Design Concepts for Expansion

Waste Management Working Group
January 18, 2018



Why Waste?

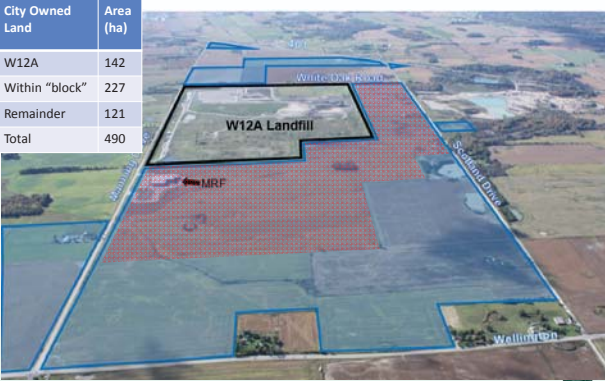
Waste Management Resource Recovery Area & "Landfill Block"



Why Waste?

Waste Management Resource Recovery Area

City Owned Land	Area (ha)
W12A	142
Within "block"	227
Remainder	121
Total	490



Why Waste?

W12A Landfill Site Features




- Stormwater Management Ponds:** Provide for stormwater storage and treatment.
- Perimeter Litter Fence:** Encloses the landfill site.
- Landfill Gas Collection System:** Collects and flares landfill gas.
- Leachate Collection System (Typical):** Collects and treats leachate.
- Fill Area:** Area for waste disposal.
- Landfill Gas Stack:** Stack for landfill gas collection.
- Perimeter Litter Fence & Vegetation Bar:** Encloses the landfill site.
- Landfill Gas Collection System:** Collects and flares landfill gas.
- Leachate Pumping Station:** Pumps leachate to treatment.
- Public Drop-Off Depot:** Drop-off point for household waste.
- Household Special Waste Depot:** Drop-off point for household special waste.




Why Waste? Primary Concerns Raised About W12A Over the Years

- Odour issues
- Groundwater quality
- Truck traffic
- Why still open at this location?




Source: London Free Press, April 16, 2015



Why Waste? Monitoring & Compliance Program

- Groundwater (25 wells)
- Surface water (6 stations)
- Leachate collection (monthly testing)
- Landfill gas collection & flaring; other odour prevention/reduction actions
- Tipping face inspector
- Housekeeping (litter, landscaping, road sweeping, dust)
- MOECC staff inspections
- Annual report (to MOECC)
- W12A Landfill PLC



Why Waste? Residual Waste Strategy (All 4 Approved by Council October 30, 2017)

Four Key Parameters for the 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? Second Series of Open Houses (November 29 & 30, 2017)

WELCOME

to the Second Series of Open Houses for the Residual Waste Disposal and Resource Recovery Strategies

Today you will learn about:

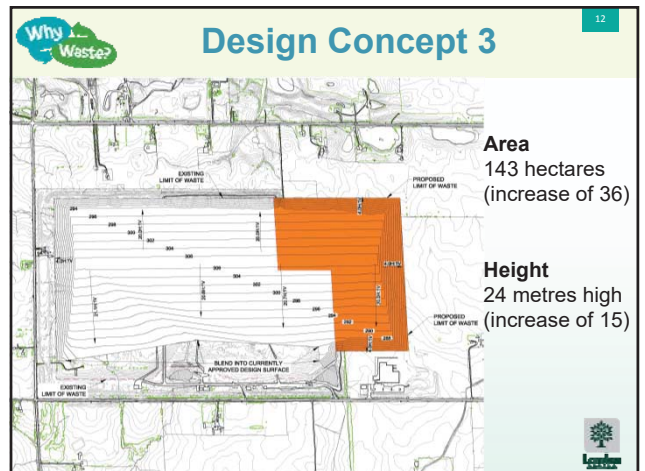
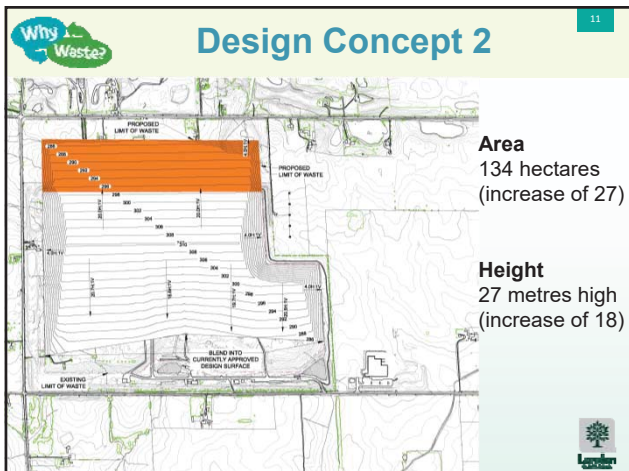
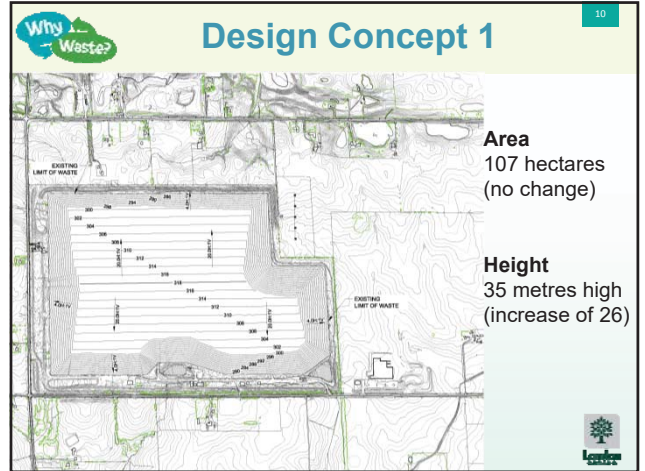
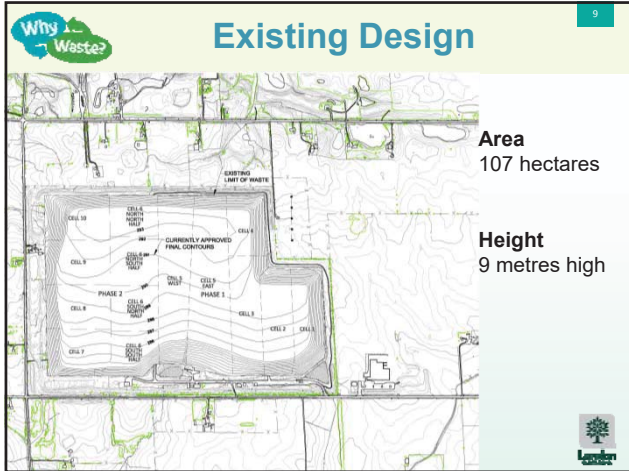
- Environmental Assessment for Proposed W12A Landfill Expansion, including:
 - Purpose of the proposed landfill expansion
 - Landfill expansion alternatives (known as Alternative Methods) being considered
 - Proposed criteria (known as "environmental components") to compare and evaluate the Alternative Methods
 - Proposed studies to gather data about the proposed criteria
- Resource Recovery Strategy including:
 - Update on changes to waste management and diversion coming from the Province
 - Potential programs/initiatives to get to 60% waste diversion
 - Key technologies for advanced diversion and resource recovery
- How you can be involved, stay informed and provide feedback

getinvolved.london.ca/WhyWasteDisposal

getinvolved.london.ca/WhyWasteResource







Why Waste? Environmental Components

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
Social	Agriculture	- Agriculture
	Archaeology	- Archaeology
	Culture	- Cultural heritage landscapes - Cultural heritage resources (including built heritage)
	Land Use	- Current and planned future land uses
	Socio-economic	- Local economy - Residents and community
Technical	Visual	- Visual
	Design and Operations	- Technical Considerations - Financial Considerations
	Transportation	- Traffic

Feedback received suggests:

Top Ranked

- Groundwater Quality
- Aquatic Ecosystems
- Terrestrial Ecosystems
- Air Quality

Visual (middle ranked)

- 401
- Manning and Wellington
- Wellington south of Glanworth Road

Bottom Ranked

- Heritage Landscapes
- Heritage Resources
- Archaeology
- Noise

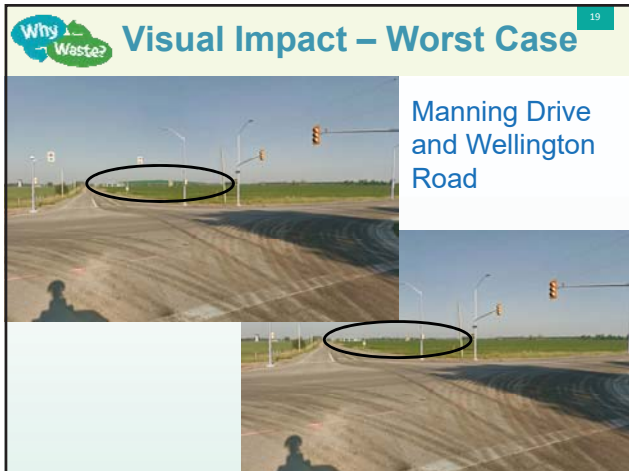
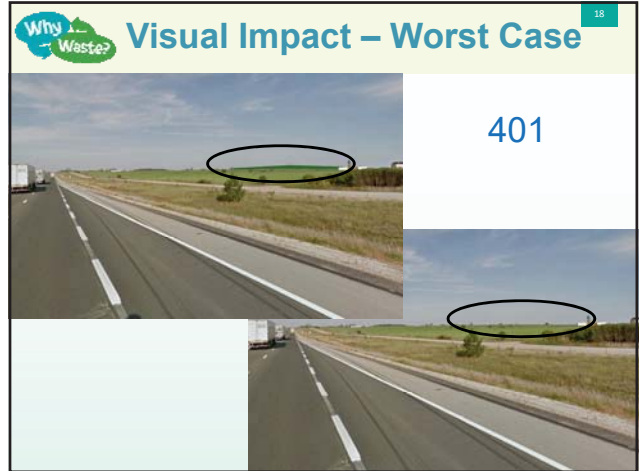
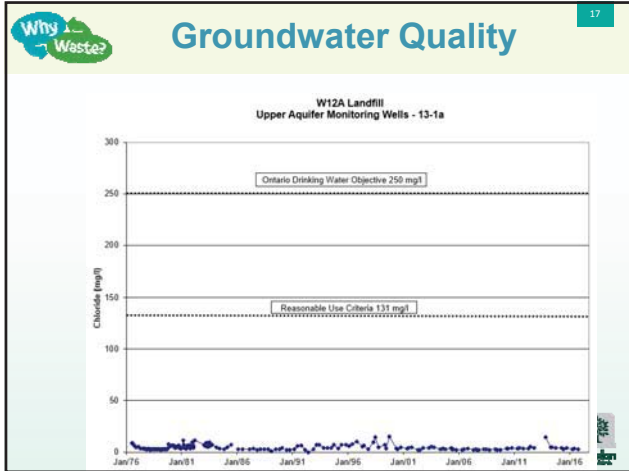
Why Waste? Groundwater Quality

- Preliminary hydrogeological assessment suggests geomembrane liner likely not required to meet groundwater quality standards
- Existing liner

Why Waste? Groundwater Quality

8m to 20m	1 to 2 cm/year	Surficial Aquitard
8m to 10m	60 to 500 cm/year	Upper Aquifer
16m to 20m		Lower Aquitard
18m to 20m		White Oak Aquifer
16m to 26m		Aquitard
Limestone Bedrock		Dundee Formation

Why Waste? Groundwater Quality



Why Waste? 21

Noise

MOECC Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning Publication, Noise Pollution Control 300, August 2013

Why Waste? 22

EA Key Upcoming Dates

Major Activity	Date / Timeframe
Waste Management Working Group	February 2018
Submission of Draft Proposed Terms of Reference (ToR) to Civic Works Committee (CWC)	March 2018
Seek stakeholder input on Draft Proposed Terms of Reference	April/May 2018
Public Participation Meeting (PPM) at CWC	June 2018
Council approval of Proposed ToR and submission to the Province	June/July 2018

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Questions ?????