

Environmental Assessment Study Report Expansion of the W12A Landfill

Presentation Outline

- 1. Overview of EA Process
- 2. Summary of Recent Comments
- 3. Other Updates

Civic Works Committee
January 11, 2022

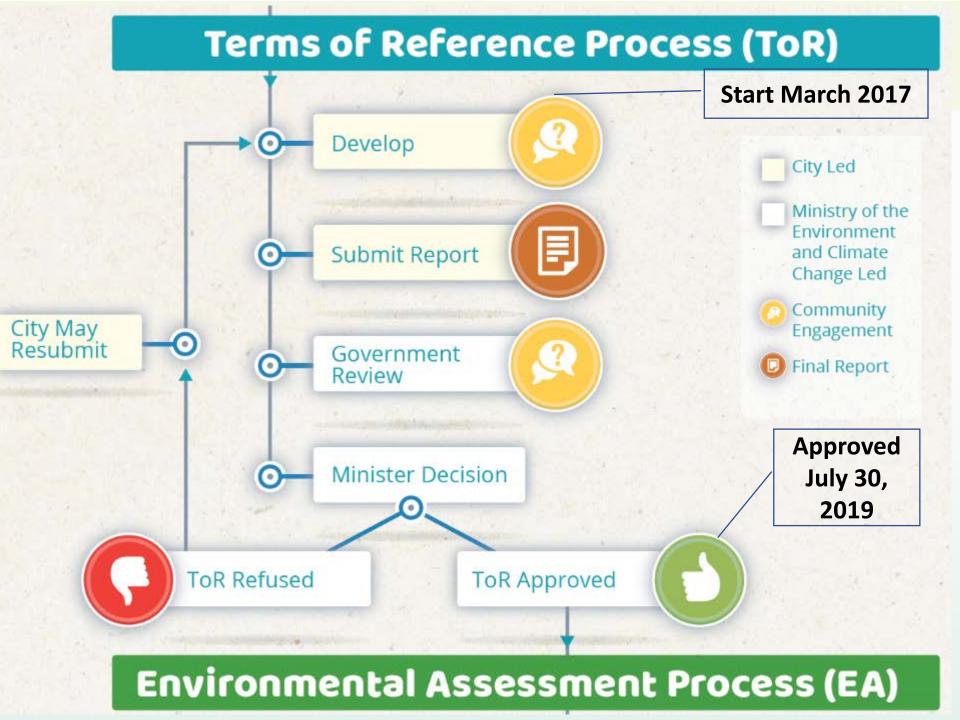




Section 1 - Overview

Environmental Assessment Process for the Proposed Expansion of the W12A Landfill







1a. ToR Overview

Key Parameters	Description
Planning period	25 years
Waste diversion	60% of residential waste by end of 2022
Service area	Regional for less than 5% of capacity (Council controlled)
Annual tonnage	Reduce from 650,000 to maximum of 500,000 tonnes per year





1b. EA Overview Complete Studies and Finalize EA



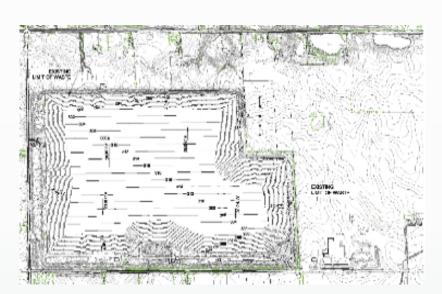
City Led

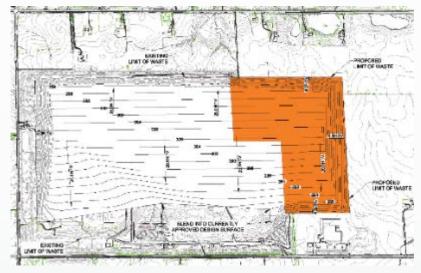
MECP Led





1b. EA Overview Landfill Alternatives Considered





Increase height

Increase height and fill 300 metres to the east

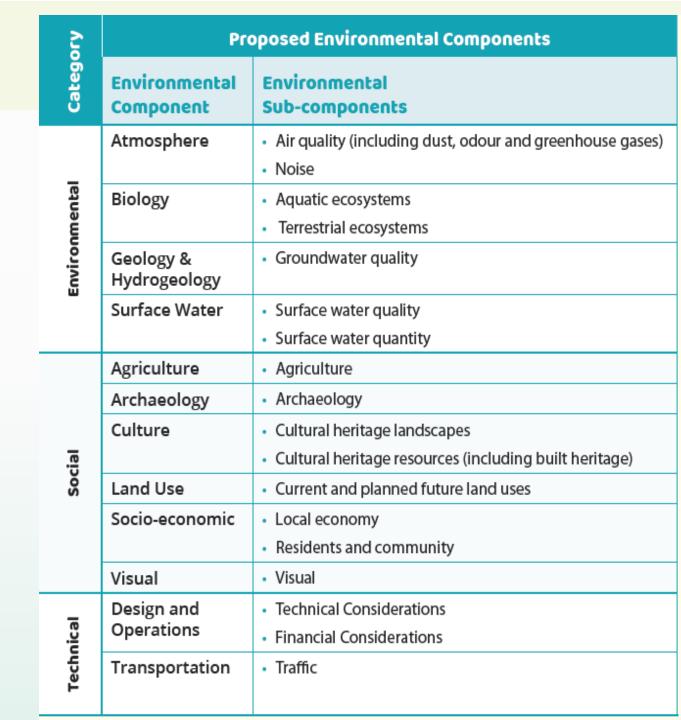


Increase height and fill 200 metres to the north





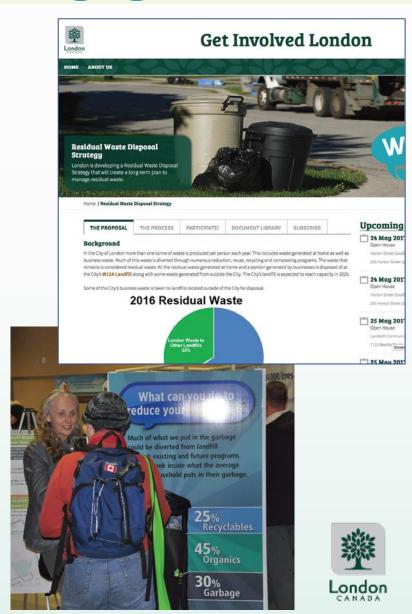
1b. EA Overview Technical Studies





1b. EA Overview 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



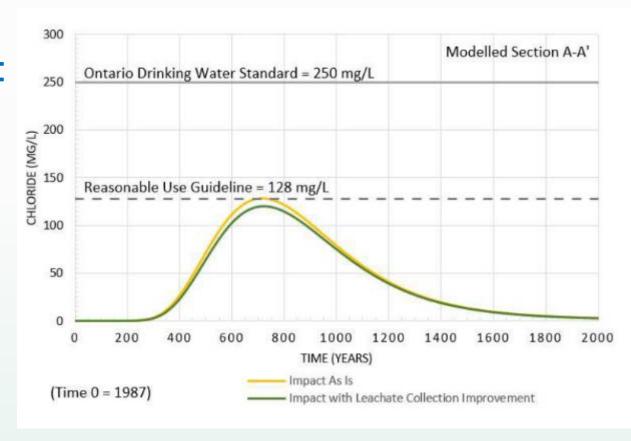


1b. EA Overview Groundwater Protection Measures

Incorporate additional leachate collection measures

into the landfill design such as:

- French (finger) drains
- granularlined interceptors
- horizontal collectors





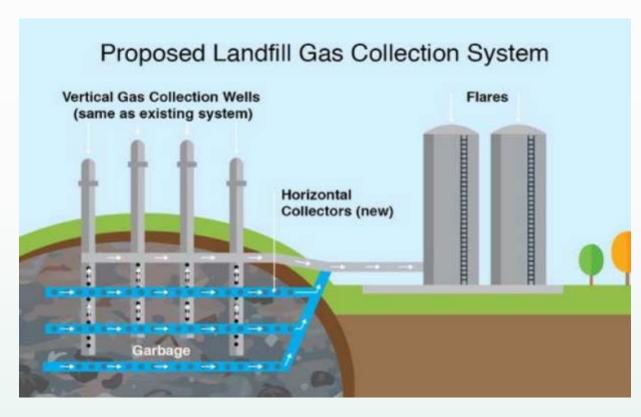


1b. EA Overview Atmosphere Measures

Enhanced gas collection system with horizontal

collection

Review and update the odour management plan and complaints response protocol



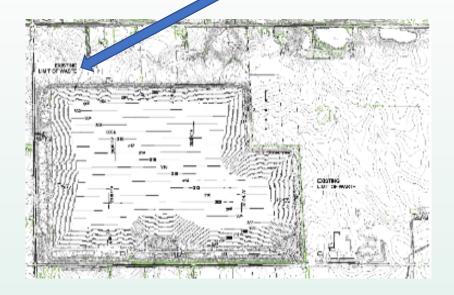
Prepare a fugitive dust management plan and complaints response protocol





1b. EA Overview Archaeology Measures

 No construction or other activities will take place within 10 metres of site with cultural heritage value or interest (First Nations) located in the northern buffer area







1b. EA Overview Climate Change Measures

Climate change adaptation - potential for more rain. Include the possibility of increased leachate generation in:

the design of the proposed replacement perimeter

leachate collection system

 the design of the replacement for the main leachate pump station on the W12A Landfill site







1b. EA Overview Other Design Features

- Additional on-site leachate storage (addresses First Nation concern)
- Stormwater management pond upgrades
- Upgrade, expand or new on-site buildings (including additional heath and safety features)
- Expand and improve (e.g., experience, safety)
 public drop-off area for waste diversion
- Preliminary capital cost estimate range for landfill is \$55 million to \$90 million (\$5.5 to \$9 per tonne);
 \$79 million has been allocated in Budget



1b. EA Overview Key Operating Features

- Sequencing of garbage to maximize screening
- Waste placed in sequential phases 1E to 8E
- Southern phases (waste) placed strategically to provide screening for northern filling activities







Government

KCCA

Section 2

Agricultural

SWM ponds

EA Process/Air/Noise/GW/etc.

Archaeology/Built Heritage

Fill approval requirements

Surface Water, Biology, Land

GHG, lack of LFG use, lack of

use, Agricultural, Cultural

Green Bin, climate change

Nuisance impacts, CEMMP

	Summary	OT	Recent	Comments
Stal	keholder		Col	mments

15

~ 40

~ 70

17

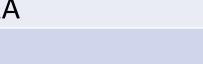
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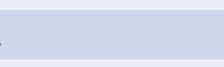
Main Subject(s)

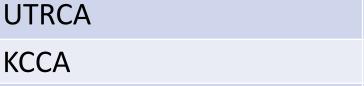
MECP (EA)

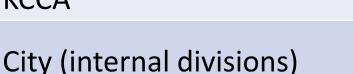
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MHSTCI OMAFRA

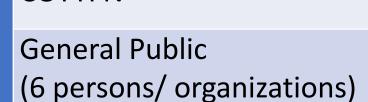












Total





2. Summary of Recent Why 2. Summary Comments Government Comments

Type of Change/Adjustment	Approximate Percentage
No change to minor change/ adjustment	70%
Additional details/clarification	26%
Change to technical assessments	3%
Minor changes to expansion	1%





2. Summary of Recent Comments (COTTFN)

- Accessibility and accommodation expectations
- Planning policies and goals in relation to population growth
- Concerns related to air quality, climate change, GHG and management of landfill gas (LFG)
- Concern that LFG was not being turned into an energy source such as renewable natural gas
- Concern that the City had not yet implemented a Green Bin program
- Concern about surface water impacts on the Thames River from the Greenway WWTP
- Socio-cultural sensitivities
- Geotechnical slope stability
- Changes in land use and future cultural heritage and archaeological assessment





2. Summary of Recent Comments (General Public)

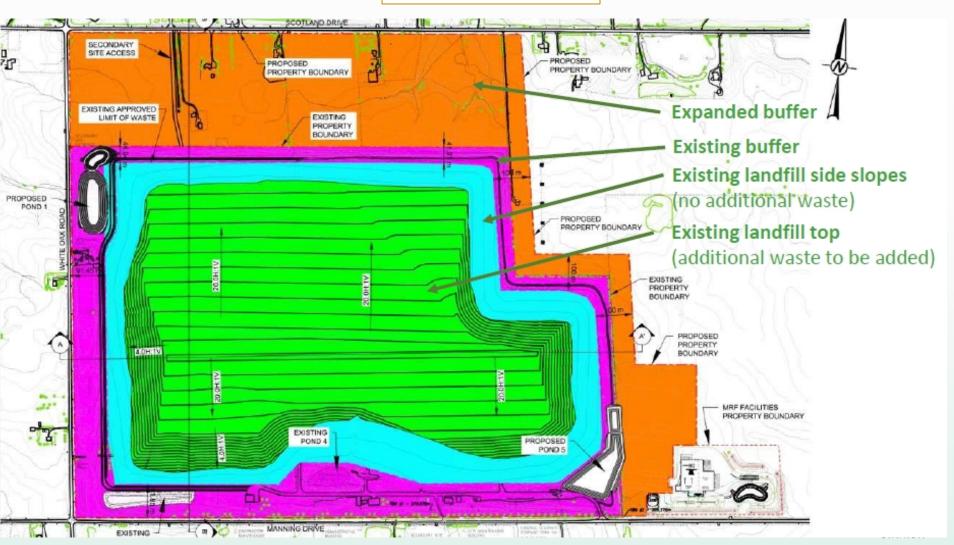
- Concerns over nuisance impacts, e.g.:
 - odours
 - visual
 - particulate matter (dust)
 - blowing garbage
- Other concerns over nuisance impacts, e.g.:
 - Social impacts
 - Land use designation of the surrounding lands
- Status of City owned properties
- Eligibility for first right of refusal program





2. Summary of Recent Comments Layout/Size of Proposed Expansion

No Changes





Section 3: Other Updates

W12A Landfill Community Enhancement and Mitigative Measures Program (CEMMP)

Additional (recent) comments include:

- Request for screening measures
- Nuisance impacts (e.g., wind, turkey vultures, etc.)
- Right of First Refusal program qualifications
- Need for commitment to enhance management of City properties near landfill
- Funding added to continue neighborhood benefit programs approved via CEMMP (e.g., point of source water treatment program)



Other Updates

COTTFN Consultation Commitments

- Meet twice per year to discuss W12A Landfill
- Further engagement on long-term Resource Recovery Plan
- Further engagement on renewable natural gas (RNG) development at landfill
- Use City's Climate Change Lens Process relative to RNG, transportation of waste and landfill





Other Updates

Upcoming Reports to CWC (Q1)

Timeframe	Item	
March 2022	 Review, proposed revisions, rationale and recommendations for CEMMP 	
March/April 2022	 Proposed policies for operating the expanded W12A Landfill 	
March/April 2022	 Next steps on Green Bin implementation Next steps on other waste diversion policies, actions and activities (many related to the Climate Emergency Action Plan) 	



Recommendation

That, on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions be taken with respect to the Environmental Assessment Study Report for the Environmental Assessment of the Proposed W12A Landfill Expansion:

- a) the Environmental Assessment Study Report **BE APPROVED**; and,
- b) Civic Administration **BE**AUTHORIZED to submit the
 Environmental Assessment Study
 Report to the Ministry of Environment,
 Conservation and Parks for approval
 by the Minister of the Environment,
 Conservation and Parks.

November 2021

Volume I

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



