



BURNSIDE

St. Marys Future Solid Waste Disposal Needs Environmental Assessment

Public Information Centre #1

Wednesday, August 26, 2015

5:00 PM to 7:00 PM

Municipal Operations Centre

408 James Street South, St. Marys, ON N4X 1B6



Welcome

Please:

- **Sign In**
- **Ask questions about the project**

This Public Information Centre (PIC) is to:

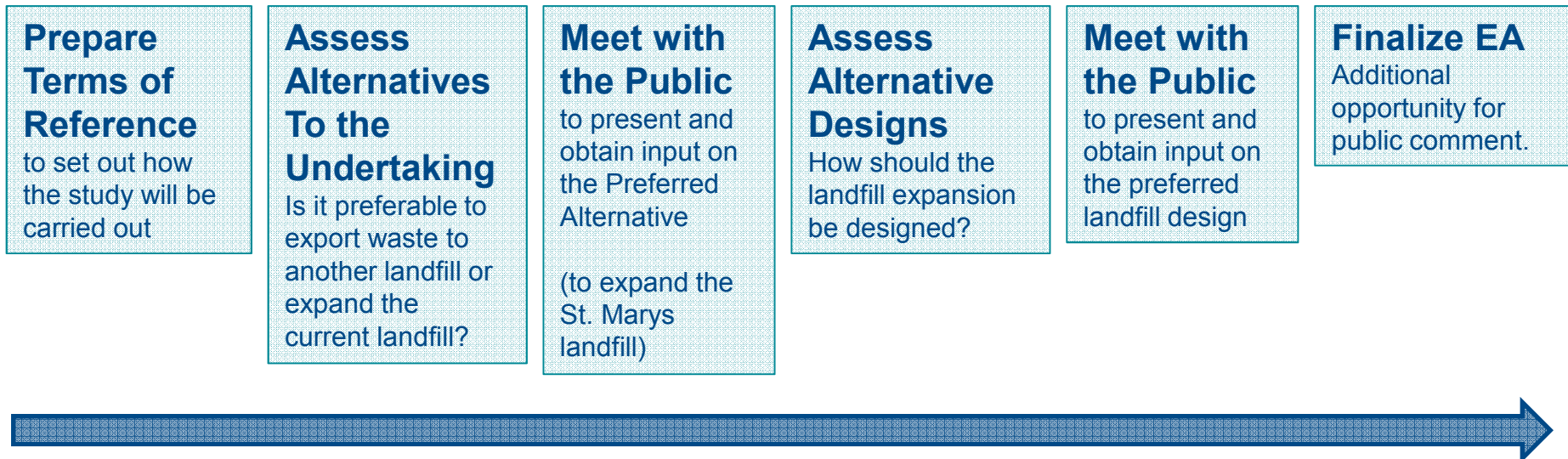
- Summarize the EA work to date
- Present our initial evaluation of *Alternatives*
- Obtain feedback on
 - The *Alternatives* evaluation and preferred solution
 - Next Steps, including Work Plans

Background

- The St. Marys landfill is nearly full
- An Environmental Assessment (EA) has been started to evaluate the best option for the Town's future waste
- Several *Alternatives* were considered in the early stages of the study
- *Alternatives* were narrowed down to:
 - Exporting waste to a site outside St. Marys
 - Expanding the St. Marys landfill
 - “Do Nothing” (as a comparison)



St. Marys EA Process



Export Options

Waste Transport Options

Haulage/Collection Trucks

- Using collection trucks to transport waste directly to final destination.

Use of Town Owned Transfer Station

- Town would build and operate a transfer station.
- Waste taken to transfer station then sent by tractor trailer to destination.

Use of Existing Private Transfer Station

- Waste taken to private transfer station.
- Transfer station responsible for move to final location.

Disposal Site Options

Local Municipal Sites

- Owned and operated by other neighbouring municipalities.

Private Sites

- Privately owned sites in southern Ontario

Waste to Energy Facilities

- One currently operating in GTA
- “Burns” waste to create energy.

Sites Located within the USA

Use as Waste Derived Fuel

Export Evaluation Process

- Pre-screened (eliminated) impractical options
- Questionnaire sent to municipal & private operators to obtain information on:
 - Disposal/transfer station/haulage fees
 - Available capacity
 - Approvals required
- Evaluated on environmental criteria:
 - Natural Environment
 - Socio-Economic Factors
 - Financial Factors
 - Technical Factors
 - Cultural Factors
 - Aboriginal Land Connections

Export Pre-Screening

	Direct Haulage	(New) Town Transfer Station	Existing (Private) Transfer Station
Local Municipal Landfill	✓	✓	x
Ontario Based Private Landfill	✓	✓	✓
WTE Facility (in GTA)	x	✓	x
U.S.A. Landfill	x	x	✓
Waste Derived Fuel	x	x	x

✓ Feasible & Practical (Evaluate)

x Not Feasible or Practical Not Evaluated Further

Best	●
Good	◐
Average	◑
Poor	◒
Worst	○

Environmental Evaluation of Export

	Municipal Landfill	Private Landfill	Town Transfer Station & Municipal Landfill	Town Transfer Station & Private Landfill	Town Transfer Station & GTA Incinerator	Regional Transfer Station & Private Landfill	Regional Transfer Station & USA Landfill
Natural Environment	○	◐	○	◐	●	◐	◐
Socio-Economic Factors	◑	○	●	●	●	◒	○
Financial Factors	◐	●	◒	◒	○	◑	◑
Technical Factors	●	●	●	●	◑	●	◑
Cultural Factors	◑	●	◑	◐	◐	●	●
Aboriginal Land Connections	●	●	◑	◑	◑	●	●
Ranking	◒	○	○	◑	◒	◐	◒

Preferred Method



Preferred Export Option

Haulage to a Private Landfill in Southern Ontario is preferred:

- No new capital costs
- Competitive Prices (tender based solution in a competitive market)
- Proximity to St. Marys - no long haul required
- Expect landfill to have environmental controls (landfill gas collection, leachate collection)
- Established /Proven Technology

Preliminary Landfill Expansion Design Concept

- A preliminary landfill design was developed based on:
 - Total capacity requirement
 - Overall peak height
 - Required additional land use (within property)
 - Compatibility with existing infrastructure
 - Efficient use of potential capacity
 - Impact of landfill development on watercourse
 - Financial implications
 - Provincial Guidelines and regulations
- The preliminary design concept will be refined if expansion is the Preferred Alternative.

Best	●
Good	◐
Average	◑
Poor	◒
Worst	○

Export vs Expansion

	Do Nothing	Export	Expansion
Natural Environment	○	●	◐
Socio-Economic Factors	○	◑	●
Financial Factors	◑	●	◐
Technical Factors	○	◐	●
Cultural Environment	●	◑	◐
Aboriginal Land Connections	●	◐	◑
Final Ranking	○	◑	●

Current Preferred Alternative →



Current Preferred *Alternative*

Expansion of the St. Marys Landfill:

- Has highest overall ranking
- Maintains existing services
 - Allows future service enhancements
- Provides long term security
- Offers local employment & economic benefits
- Utilizes and improves existing infrastructure
- Creates incentive to minimize disposal

Next Steps

- Consider your comments on the evaluation and Landfill Expansion Option.
- If expanding the landfill:
 - Collect current environmental information for Site and surrounding Areas (see Draft Work Plans)
 - Identify Alternative designs for landfill expansion (e.g. footprints, infrastructure, operating techniques to minimize nuisance impacts etc.)
 - Evaluate design options and identify the best option
 - Continue consultation, seeking comments on expansion assessment results
 - Prepare & submit EA documentation

Draft Work Plans

Draft Work Plans identify:

- Studies and data collection to be undertaken
- Procedures and criteria to evaluate alternative landfill designs and assess potential impacts
- Permits and authorizations likely to be required

**We are seeking your input on the
Draft Work Plans**

Thank - You

- We appreciate your participation
- If you have additional questions or comments please contact either

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