SAUGEEN SHORES WASTE MANAGEMENT PLAN

Purpose of the Undertaking

To address the problem of diminishing capacity at the Town's Southampton Landfill Site through the assessment and determination of a long-term solid waste management plan. Based on the proposed 40-year planning period, it is estimated that there will be a need for approximately one-million cubic meters (m^3) of landfill capacity.

Planning Process

The Town is beginning an Environmental Assessment in accordance with the Environmental Assessment Act. The first step of the process is the preparation of a Terms of Reference (ToR) which sets out the framework and work plan for the preparation of the Environmental Assessment.

Conceptual Workplan

STAGE 1
Terms of Reference (ToR) Document

- Draft Terms of Reference Preparation
- Agency and Stakeholder Consultation
- Consultation with Indigenous Communities
- Public Consultation
- Finalize Proposed Terms of Reference Document
- Formally Submit ToR to MECP for Approval

The approved ToR provides the framework for the preparation of a Comprehensive EA

STAGE 2
Environmental Assessment Study

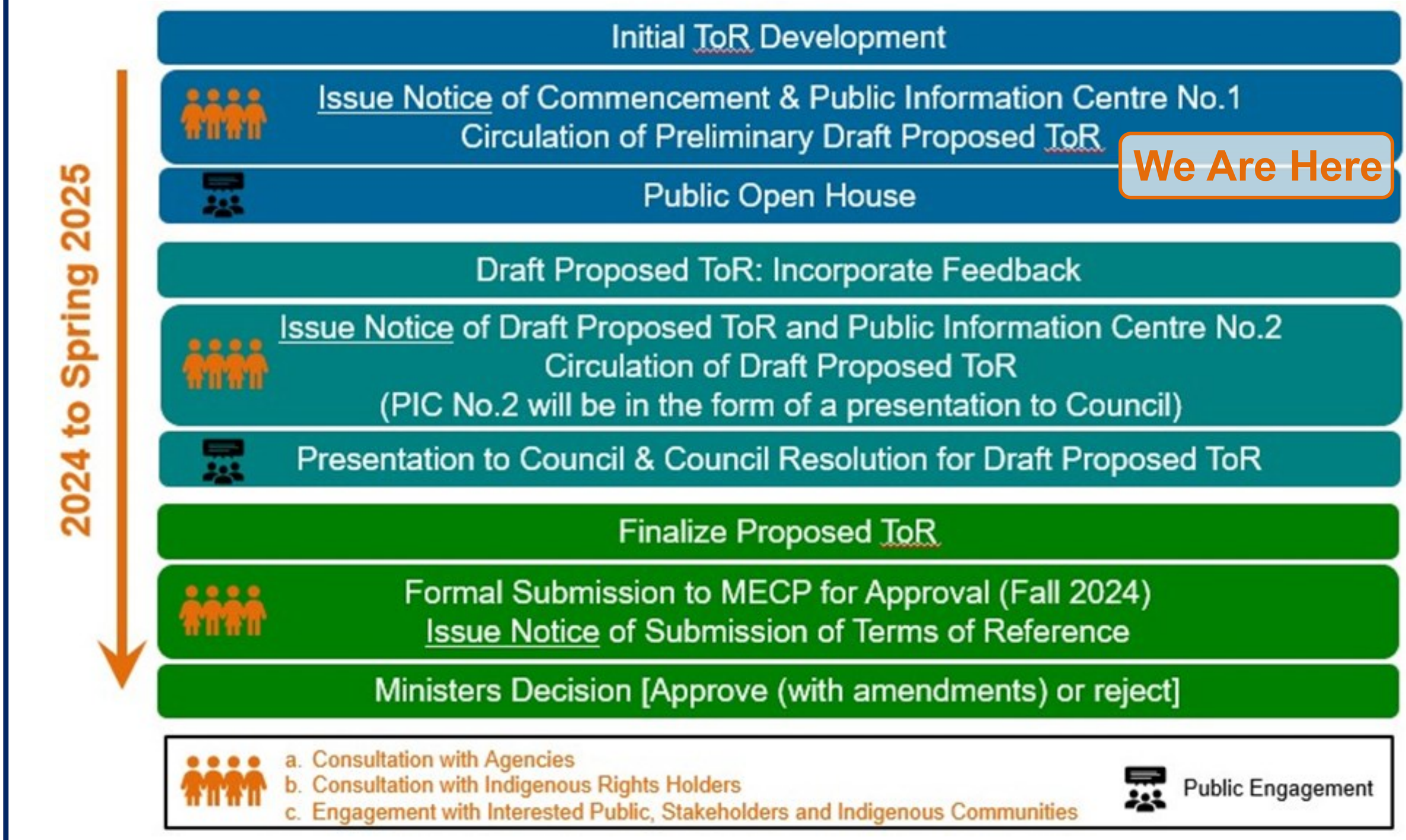
- 'Alternatives To' Evaluation
- 'Alternative Methods' Evaluation
- Assessment of Impacts & Development of Mitigation

STAGE 3
EAA Submission

- Prepare EA Submission and Submit for Approval
- Receive EA Approval for Preferred Alternative

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Development of the Terms of Reference



'Alternatives To'

A review of the functionally different ways of meeting the Town's long-term waste management needs.

'Alternatives To' identified for this Waste Management Project include:

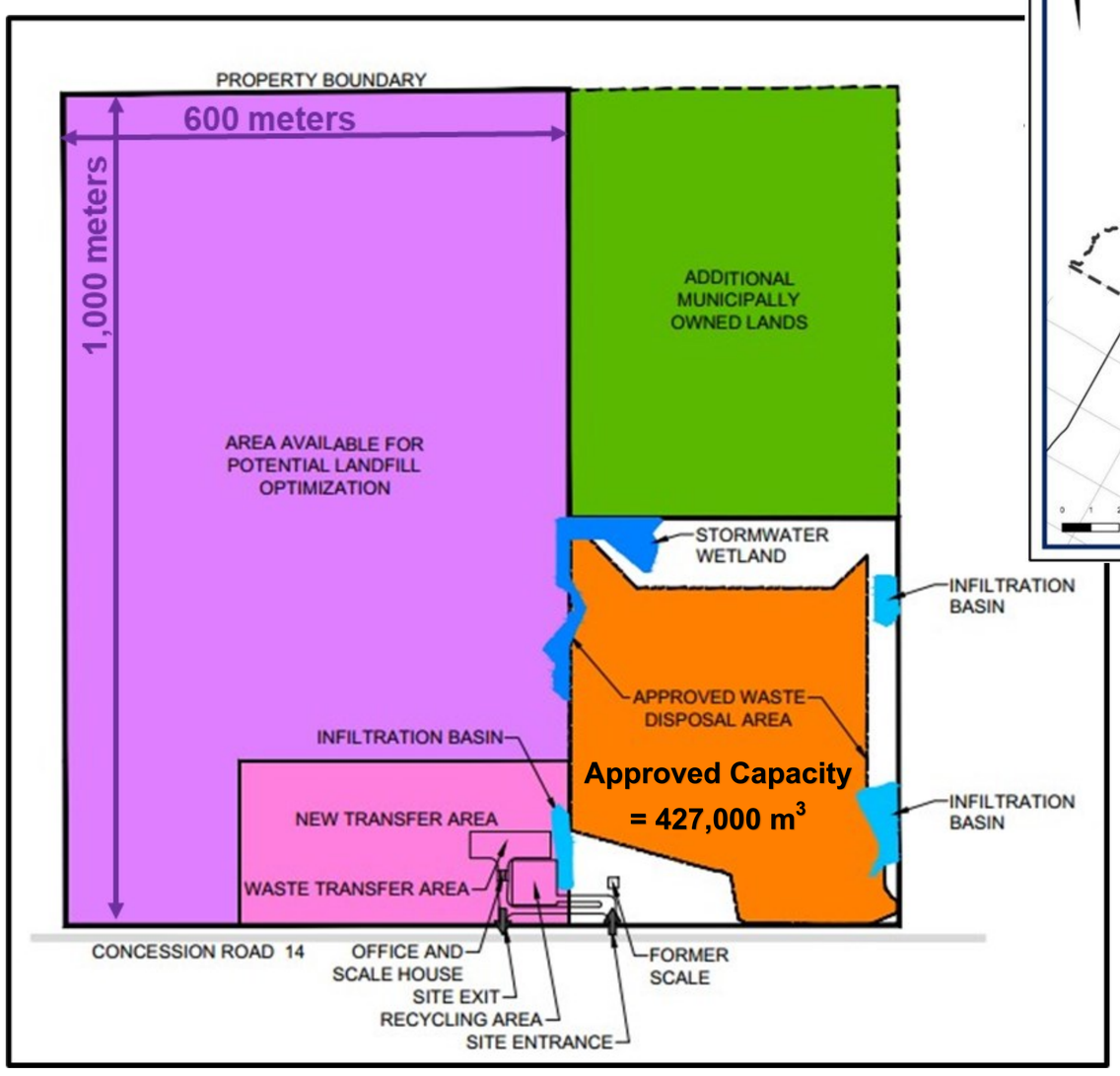
1. Do Nothing (A baseline against which alternatives can be compared)
2. Optimization of Capacity at the Town's Existing Southampton Landfill
3. Establish a New Landfill Site within the Town of Saugeen Shores
4. Alternative Waste Management Technologies
5. Third Party: Export of Waste

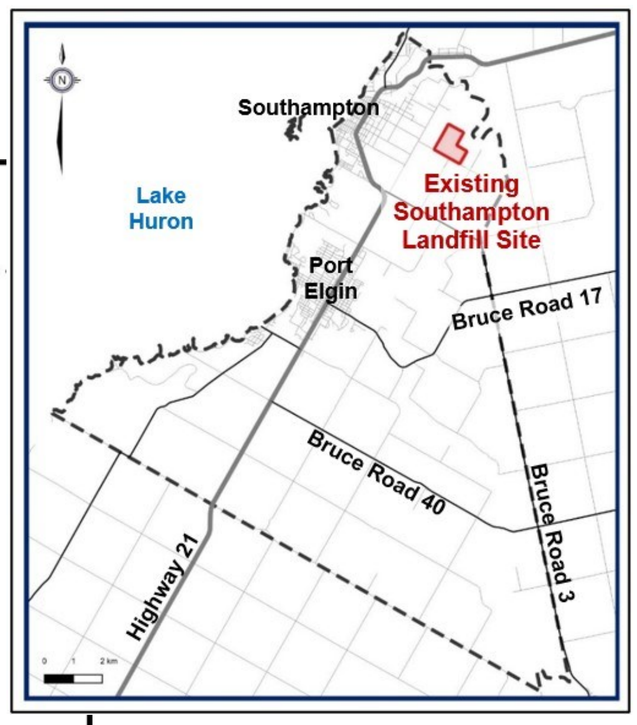
The provision for enhanced waste diversion and reduction initiatives will be considered in conjunction with all the 'Alternatives To'. While diversion efforts will continue to serve to reduce the need for residual waste disposal, they are not expected to eliminate the need for a long-term waste management strategy.

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EXISTING WASTE MANAGEMENT SYSTEM

Southampton Landfill Site





Operations began in 1965.

Remaining site life is ±6 to 8 years, or sometime during the period between 2030 and 2032.

- Waste diversion opportunities are actively implemented & pursued -

Landfill Optimization



Preliminary Preferred 'Alternative To'

The Long-Term Waste Management Plan completed in 2020 recommended that the Town initiate background studies to evaluate the feasibility of the Southampton Landfill Site to accommodate additional capacity.

Feasibility Assessment

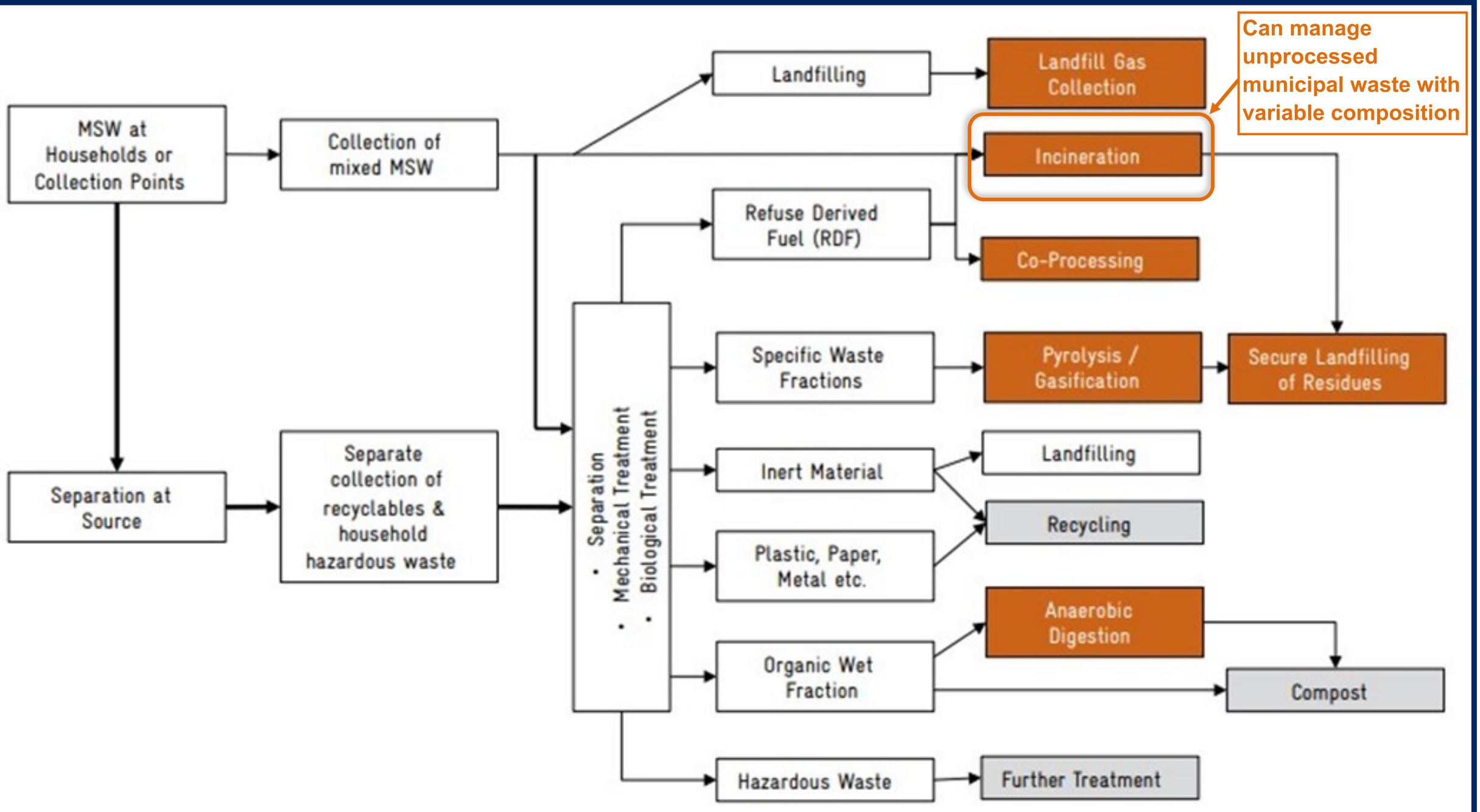
Background studies were initiated in 2021 to confirm the feasibility of optimizing the capacity at the Southampton Landfill Site, including:

i. Natural Environment Assessment
ii. Stage 1 and Stage 2 Archaeological Assessments
iii. Hydrogeological Investigations

FINDINGS: Landfill Optimization is a Viable Alternative

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Alternative Waste Management Technologies



Reference: GIZ. Waste-to-Energy Options in Municipal Solid Waste Management [Website]. https://www.giz.de/en/downloads/GIZ%20WasteToEnergy%20Guidelines%202017.pdf



Source: http://www.durhamyorkwaste.ca/en/education-and-resources/education-and-resources.aspx

While waste-to-energy has many benefits, including reducing the overall volume of landfilled waste, generating energy (i.e., heat or electricity), and a potential reduction of impacts to the environment compared to landfilling, the required supply of greater than 100,000 tonnes of waste annually, the significant capital cost and the operational complexity make the this technology both operationally & economically unfeasible for the Town. Further, although waste volumes are significantly reduced, the need for landfill capacity is not eliminated.

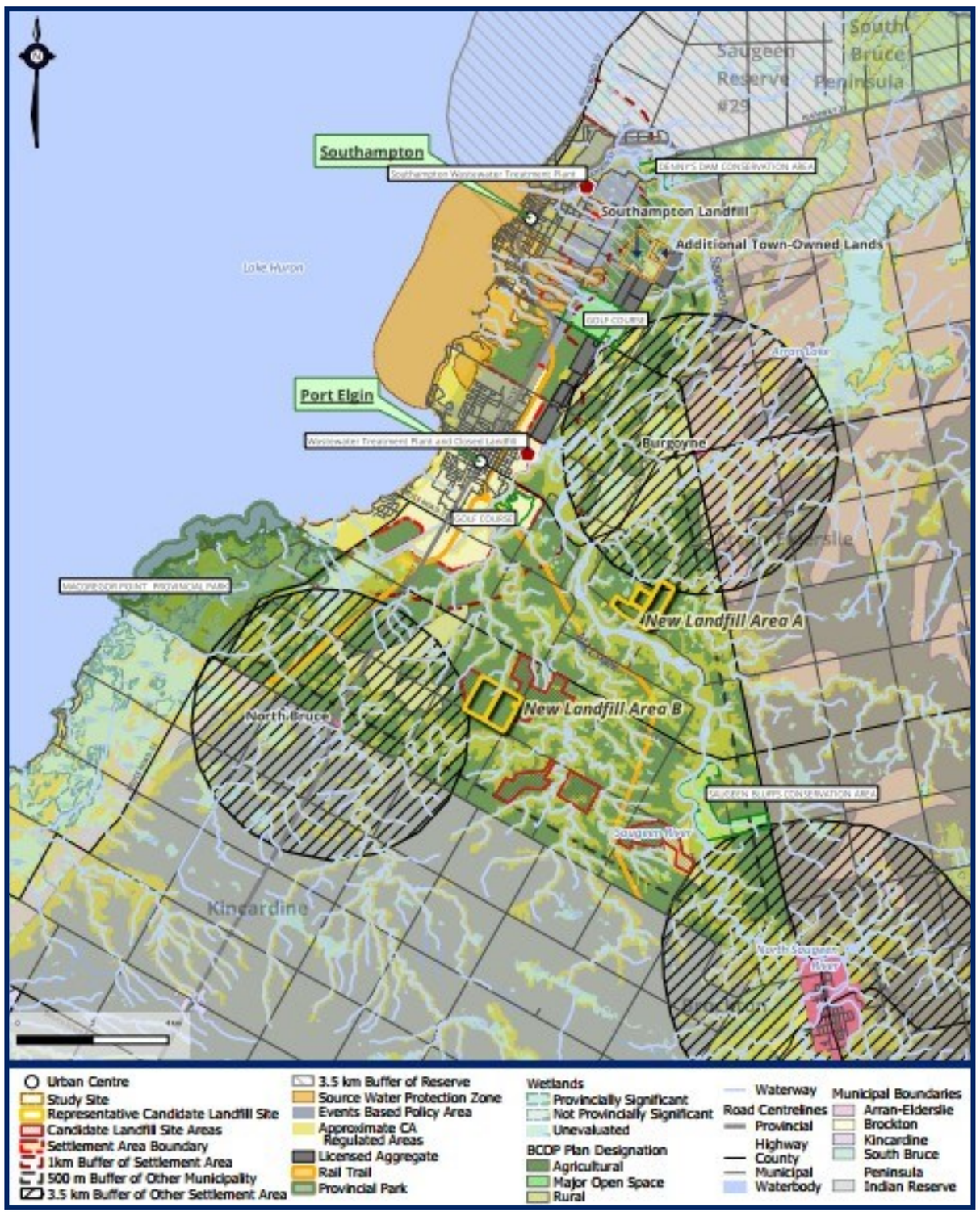
There are several factors that would suggest that thermal treatment technologies are not suitable for the Town of Saugeen Shores. Therefore, it is recommended that this ‘Alternative To’ be eliminated from proceeding further through the Environmental Assessment process.

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ASSESSMENT OF LANDFILL ALTERNATIVES

Step 1: Site Locations

Candidate landfill site locations were cited based on various constraints, including planning, policy, and natural land constraints.



Step 2: Evaluation & Assessment of Landfill Alternatives

A detailed assessment of the Landfill Alternatives was completed. This included the representative candidate landfill sites and optimization of capacity at the Southampton Landfill Site. Key factors considered included:

- Relative impacts from site operations on the surrounding community
- Agricultural Areas: Official Plan may not support re-zoning of CLI Class 1 and 2 lands within broader agricultural areas
- Site Facilities and Access: Use of the existing site could capitalize on the existing infrastructure
- Leachate Collection and Treatment: Off-site disposal via extension of the wastewater services to the Southampton Landfill Site could likely be achieved
- Property Ownership: The Town currently owns the 80-hectare parcel at the existing landfill site
- Planning Period and Certainty of Approval

It is recommended that Landfill Optimization be recognized as the preferred Landfill Alternative. This will be further reviewed through the development of the Terms of Reference.

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NEXT STEPS

- Comments received will be documented, considered, addressed and/or incorporated in the development of the Terms of Reference.
- **May 24, 2024:** Last day to complete questionnaire posted on the Project Website.
- **Summer 2024:** Notification for Public Information Centre No.2 (PIC No.2) will be provided by email, posting in the Shoreline Beacon and via the project website. The updated Terms of Reference will be made available for further review and comment.
- **August/September :** PIC No.2 will be held. This will be in the form of a presentation to Town Council. The public will be invited to attend and ask questions. The focus will be on the development of the Terms of Reference and key recommendations.

How can you participate & become informed?

Join our Project Mailing List

Complete the Questionnaire (on Project Website)

Attend Public Information Centres

Review Documents and Provide Comment

Follow the Project or Visit the Project Website for Updates
www.engage.saugeenshores.ca/

Submit Comments:
Please Provide Comments by May 24, 2024

If you have project related comments or questions, please contact:

Colin Saunders
Town of Saugeen Shores
Project Manager, Capital Projects
sswmp@saugeenshores.ca

Andrea Nelson
GEI Consultants
Project Manager
sswmp@geiconsultants.com

Thank you for your attendance & comments related to the project.