Public Information Centre

New Highway 7 Sewage Pumping Station

May 22, 2024

Location: Victoria Room – City Hall

Time: 5:00 pm - 7:00 pm





Background Information

The City of Kawartha Lakes (City) is initiating a planning process to expand the wastewater collection system for the community of Lindsay. The community of Lindsay is rapidly expanding with new developments and requires upgrades to the wastewater collection system to support the increasing needs of the residents of the community.

One of the new developments is the Gateway Subdivision located on Highway 7 and Lindsay St. South. Upgrades to the wastewater collection system will be required to support the new homes to be built in the subdivision.

These upgrades and recommendations will be carried out as a Schedule 'B' project under the terms of the Municipal Class Environmental Assessment (Class EA) process, which is approved under the Environmental Assessment Act.





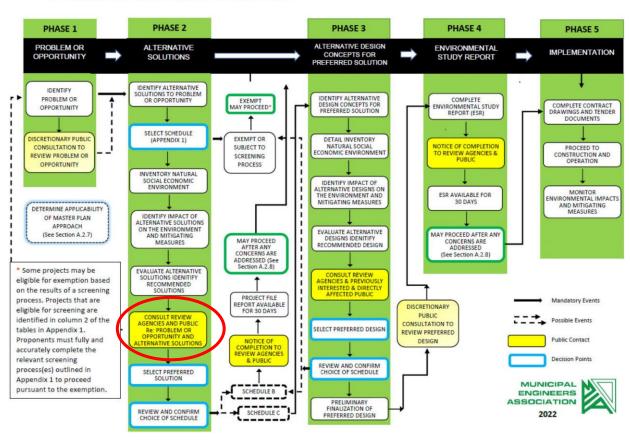
Municipal Class EA Process

- Meets the requirements of Ontario's Environmental Assessment Act by ensuring that potential environmental impacts of projects are considered.
- Consultation with the public and interested stakeholders including government review agencies and First Nations is required to identify environmental impacts of alternative solutions, develop mitigating measures and identify a preferred solution.

Kawartha Lakes Jump In

EXHIBIT A.2. MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS

NOTE: This flow chart is to be read in conjunction with Part A of the MCEA





Opportunity Statement

New and future developments within the community of Lindsay including the Gateway Subdivision, require upgrades to the capacity of the existing wastewater collection system.

Alternatives

Do Nothing

This alternative would have the lowest capital cost and would involve continuing to use the existing wastewater collection system without any changes. This alternative is not feasible as the current system will not be able to support future developments.

Gravity Sewer System for New Development

This option involves servicing all new properties with gravity sewers. This is not a viable option because all properties will not meet the required elevations for gravity sewers to connect to the existing wastewater collection system.

New Sewage Pumping Station

This alternative involves constructing a new sewage pumping station facility within the new Gateway Subdivision development site. A new wet well system of sufficient storage volume with submersible pumps to meet the flow requirements for the wastewater collection system is considered a viable option.

Alternatives Evaluation Matrix

City of Kawartha Lakes Highway 7 Pumping Station							
Project No. 2337786							
Evaluation of Alternative Solutions							
Description/Elements		Do Nothing		Gravity Sewer System		New Sewage Pr Pumping Station &	
	Weighing	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Meet Flow Capacity Requirements	0.25	0	0	0	0	5	1.25
Site/Neighbourhood/Impact/Noise/Odour/Aesthetics	0.05	5	0.25	5	0.25	4	0.2
Property Acquisition/Availability	0.05	5	0.25	5	0.25	5	0.25
Expansion Potential	0.2	0	0	1	0.2	5	1
Ease of Integration/Constructability	0.05	5	0.25	2	0.1	4	0.2
Terrestrial Habitat/Wildlife	0.05	5	0.25	5	0.25	5	0.25
Archaeological Resources	0.05	5	0.25	5	0.25	5	0.25
Operability	0.1	0	0	0	0	5	0.5
Capital/Operating Costs	0.2	5	1	4	0.8	3	0.6
Total Weighted Score	1		2.25		2.1		4.5

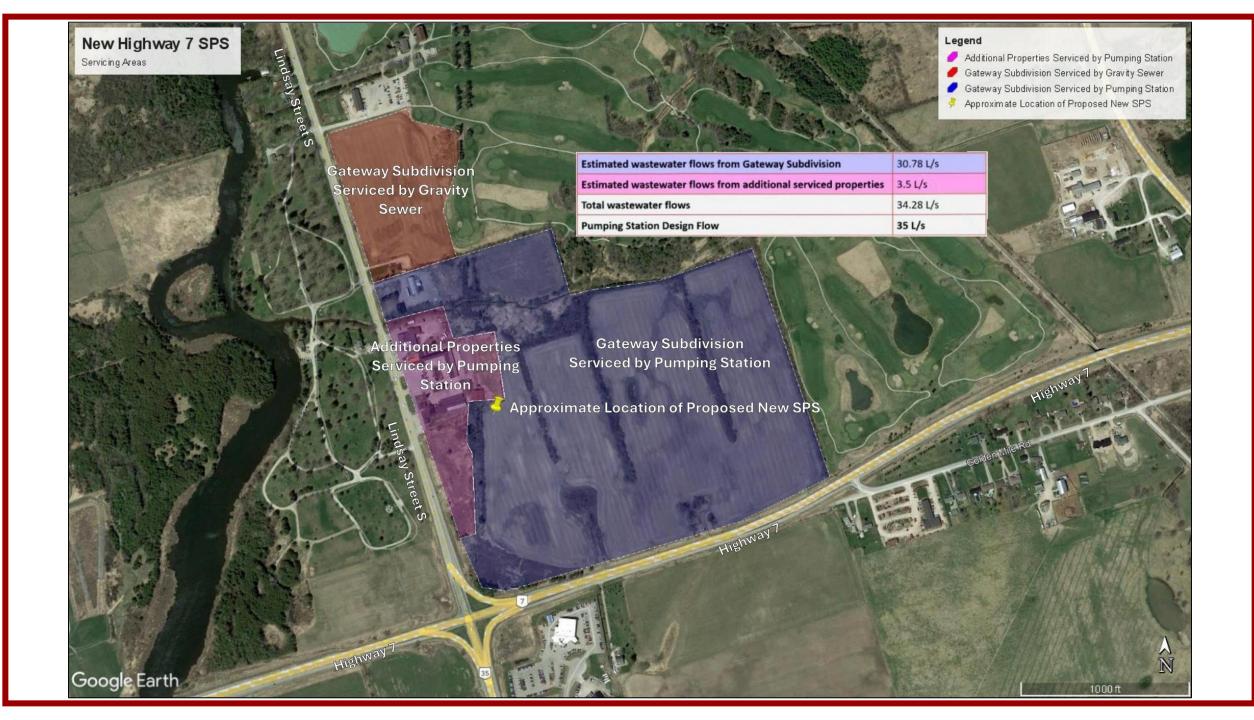
*Scoring: 5 is the highest (best). The highest scoring alternative reflects the preferred solution

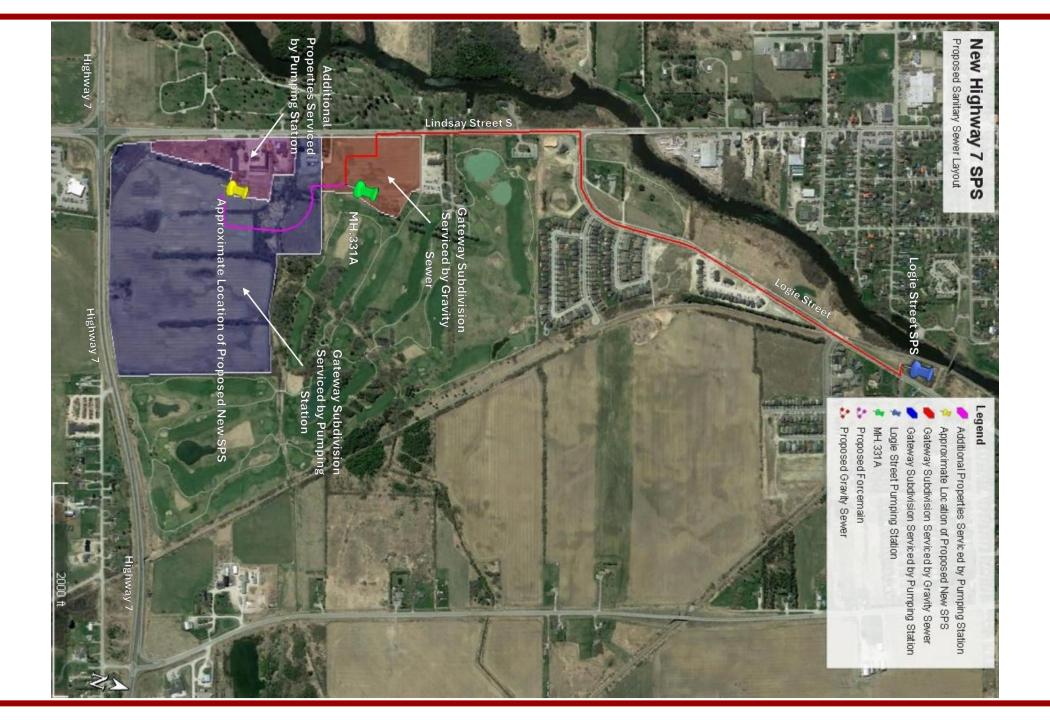
Preferred Alternative

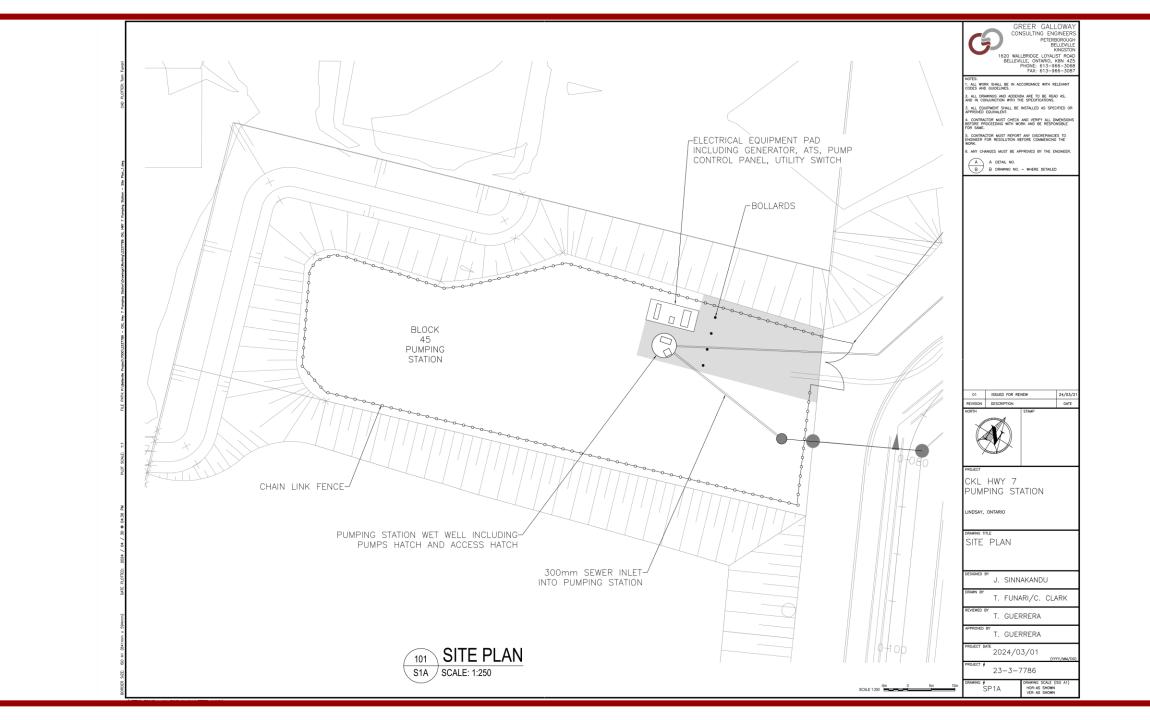
- The preferred alternative is a new sewage pumping station located within the Gateway Subdivision.
- The new station is expected to be a wet well system with submersible pumps rated to provide 35 L/s of flow each, in a duty-standby configuration. The station will be equipped with emergency power systems with an outdoor generator to allow operations to continue if utility power is lost.
- The station is proposed to be in the designated Block 45 of the new Gateway Subdivision. The station property will be enclosed with a fence.
- The new forcemain will extend from the proposed station and travel north to connect to maintenance hole MH 331A. Sewage will be pumped from the new station to MH 331A, then travel by gravity sewer north to Logie St. SPS.
- The high-level cost estimate for construction of the station and forcemain, is \$2,975,000 excluding HST. Potential construction will be funded through development charges.











Next Steps

- Review choice of preferred solution
- Identify alternative design concepts for preferred solution
- Finalize preferred design and proceed towards Project File Report
- Complete Contract Drawings and Tender Documents

Project Contact Information

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Slides will be made available on the City of Kawartha Lakes website following the presentation.

Thank you