

Class EA Findings – Council Presentation

New Highway 7 Sewage Pumping Station

August 27, 2024



Background Information

The City of Kawartha Lakes (City) has initiated 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 upgrades to the wastewater collection system are required 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 have been 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.

Background Information Cont'd

A Public Information Centre (PIC) was held May 22nd, 2024, during which the proposed alternatives were presented, and questions/concerns were addressed.

The draft EA project file report has now been completed and submitted to the Ministry of Environment, Conservation and Parks for review and comment. Upon review of the report, a notice of completion will be issued, and the report will be filed with the MECP and made available to review agencies and the public for a review period of thirty (30) days.

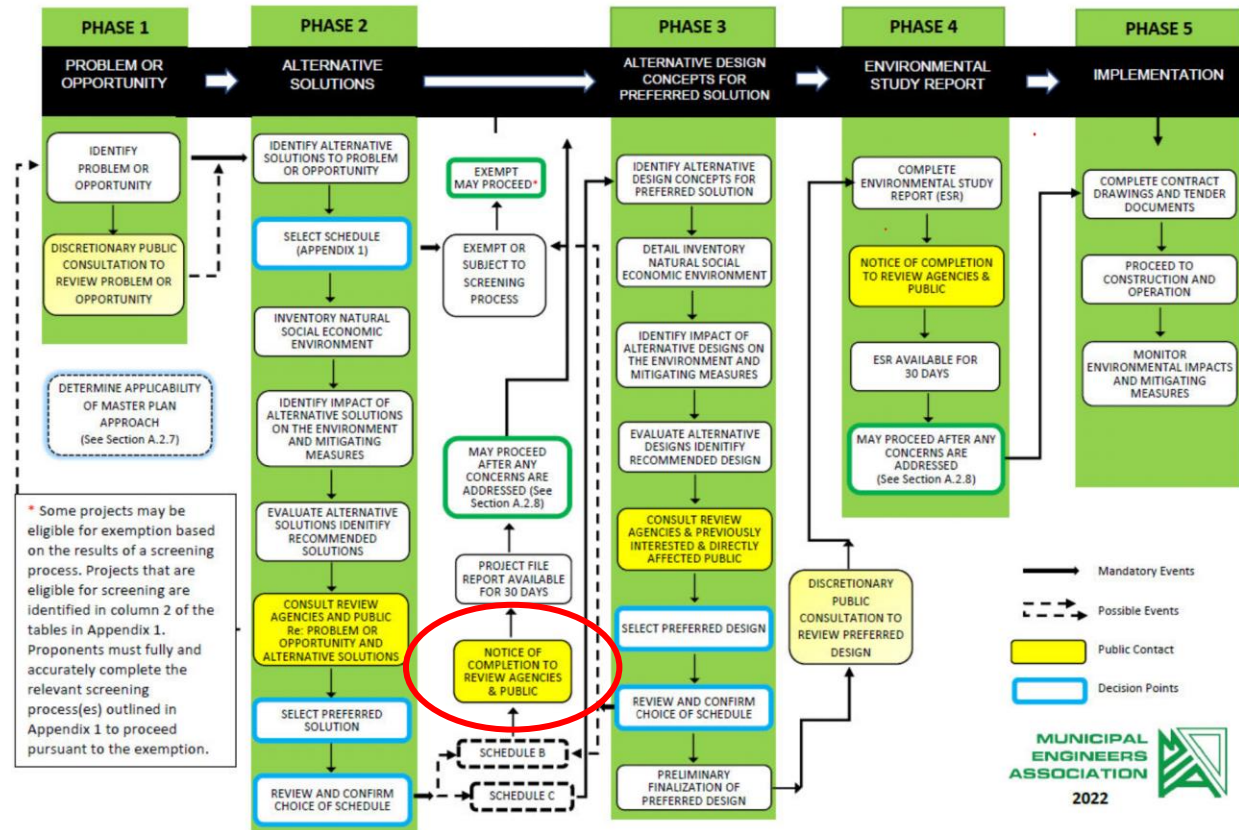
The review period allows the public and review agencies to express concerns and request additional levels of assessment where required.

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.

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 Considered

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		Alt. 1		Alt. 2		Alt. 3	
		Do Nothing		Gravity Sewer System for New Development		New Sewage Pumping Station	
	Weighing Factor	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 43 L/s of flow each, in a duty-standby configuration. This design flow includes a 20% factor of safety. 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 \$3,400,000 including HST. Potential construction will be funded through development charges.

Consultation

Agency Consultation

Consultation with review agencies has been undertaken throughout the project to evaluate environmental impacts of the alternative solutions and develop mitigating measures. Agencies consulted include the Ministry of Environment, Conservation and Parks (MECP) and the Ministry of Citizenship and Multiculturalism (MCM).

First Nations Consultation

Consultation with relevant First Nations groups has been undertaken throughout the project to assess the impacts of the project on Aboriginal or treaty rights. The list of relevant First Nations groups to be contacted was provided by the MECP.

Public Consultation

Interested members of the public have been added to the project contact list. Project notices were circulated and received questions have been addressed from interested public stakeholders.

Existing Environmental Inventory

Studies Completed – Natural Environment

The following studies have been completed and are referenced to support the Class EA:

- Phase I Environmental Site Assessment
- Tree Impact Assessment
- Geotechnical Investigation
- Source Water Protection Assessment

Screening Checklists Completed

The following screening checklists developed by the MCM have been completed as part of the EA Project File:

- Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes
- Criteria for Evaluating Archaeological Potential
- Criteria for Evaluating Marine Archaeological Potential

The project site has been subjected to a Stage 1 and 2 Archeological Assessment which concluded that there is no presence of any archeological resources of cultural value or interest. As such, the conclusion of the checklists is that the study area has low potential for archeological, built heritage, cultural heritage and marine archeological resources.

New Highway 7 SPS

Servicing Areas

Legend

- Additional Properties Served by Pumping Station
- Approximate Location of Proposed New SPS
- Gateway Subdivision Served by Gravity Sewer
- Gateway Subdivision Served by Pumping Station

Estimated Wastewater Flows from Gateway Subdivision	32 L/s
Estimated Wastewater Flows from Additional Served Properties	3.5 L/s
Total Wastewater Flows	35.5 L/s
Safety Factor	+20%
Pumping Station Design Flow	43 L/s

Gateway Subdivision
Served by Gravity
Sewer

Additional Properties
Served by Pumping
Station

Gateway Subdivision
Served by Pumping Station

Approximate Location of Proposed new SPS

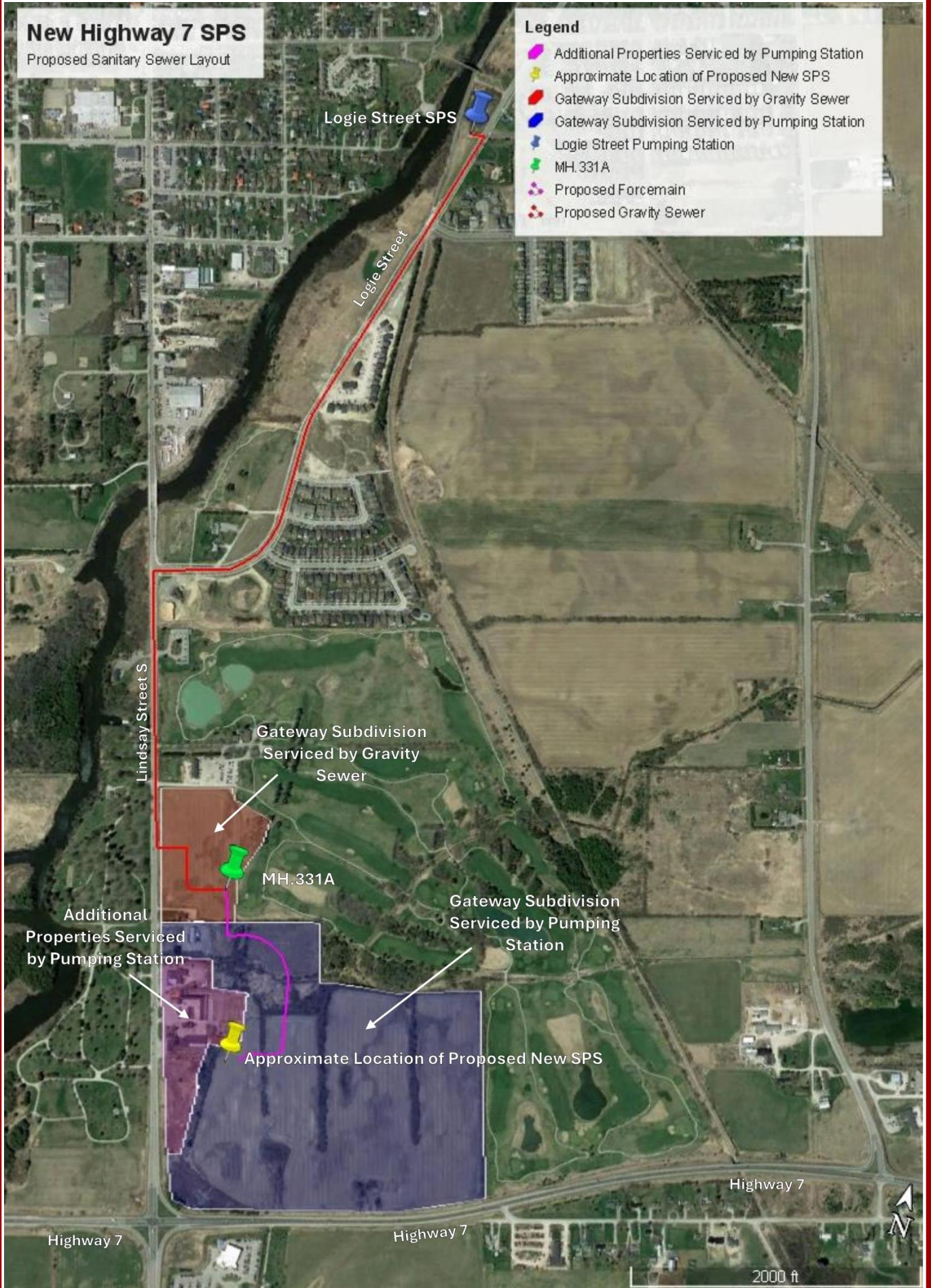


New Highway 7 SPS

Proposed Sanitary Sewer Layout

Legend

- Additional Properties Served by Pumping Station
- Approximate Location of Proposed New SPS
- Gateway Subdivision Served by Gravity Sewer
- Gateway Subdivision Served by Pumping Station
- Logie Street Pumping Station
- MH.331A
- Proposed Forcemain
- Proposed Gravity Sewer



DATE PLOTTED: 2024 / 08 / 01 @ 01:13 PM
 PLOT SCALE: 1:1
 BORDER SIZE: ISO A1 (841mm x 594mm)
 FILE PATH: C:\Users\jshah\OneDrive\Projects\2024\237786 - CKL HWY 7 Pumping Station\Drawings\237786_CKL HWY 7 Pumping Station - Site Plan.dwg



SITE PLAN
 SCALE 1:300

GREER GALLOWAY
 CONSULTING ENGINEERS
 PETERBOROUGH
 BELLEVILLE
 KINGSTON
 1620 WALLBRIDGE LOYALIST ROAD
 BELLEVILLE, ONTARIO, K8N 4Z5
 PHONE: 613-966-3068
 FAX: 613-966-3067

- NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIPMENT.
 4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.
- A DETAIL NO.
 B DRAWING NO. - WHERE DETAILED

01	ISSUED FOR REVIEW	24/05/17
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REVISION	DESCRIPTION	DATE
NORTH		STAMP

PROJECT
 CKL HWY 7
 PUMPING STATION
 LINDSAY, ONTARIO

DRAWING TITLE
 SITE PLAN

DESIGNED BY
 J. SINNAKANDU

DRAWN BY
 T. FUNARI/C. CLARK

REVIEWED BY
 T. GUERRERA

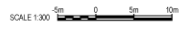
APPROVED BY
 T. GUERRERA

PROJECT DATE
 2024/03/01

PROJECT #
 23-3-7786 (1111/AM/20)

DRAWING #
 SP1

DRAWING SCALE (ISO A1)
 HOR AS SHOWN
 VER AS SHOWN



(METRIC SCALE - ALL DIMS IN MILLIMETERS U.N.O.)

Next Steps

- Finalize Project File Report and issue Notice of Completion
- Complete review period and address raised concerns
- Complete Contract Drawings and Tender Documents

Project Contact Information

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Thank you