



**Class Environmental Assessment
for the Sanitary System and Pump Station 14
in South Lynnwood Area**

Project File

Final

May 11, 2023

Prepared for:



Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area

Project File Addenda
Final

October 24, 2023



MEMORANDUM

To: Project File **Date:** October 24, 2023
From: John Tyrrell **Project No.:** 215945
Subject: Class Environmental Assessment
for the Sanitary System and Pump Station
14 in South Lynnwood Area Project File –
Addendum to Address MECP
Correspondence

This memo summarizes the additional correspondence with the MECP based on discussion commenced during the following the required 30-day review period for the Project File which expired on June 21, 2023. MECP Correspondence included:

1. Confirmation that the MECP was satisfied that their comments on the Project File were fully addressed per the attached October 20, 2023 email;
2. RVA email dated October 11, 2023 which addressed MECP concerns (which was included in the MECP October 20, 2023 email); and
3. The RVA Technical Memo *Species at Risk Assessment Summary Memo – Sanitary System and Pump Station 14 in South Lynnwood Area, Municipality of Chatham Kent* dated September 22, 2023 that was attached to the October 11, 2023 email.

This correspondence confirms that the MECP has been satisfied with the natural environment review that was undertaken as part of this study.

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John Tyrrell

From: Badali, Mark (He/Him) (MECP) <Mark.Badali1@ontario.ca>
Sent: October 20, 2023 3:26 PM
To: John Tyrrell
Cc: Ali Akl; Sarah Minard; Christopher Paslawski
Subject: RE: MECP Comments on Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area
Attachments: 215945 - 20230922 Eco Memo SAR Final.pdf

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Hi John,

Thank you for your email, I concur with your responses to MECP comments #11 & #13. With respect to the response to #13, the ministry strongly encourages that the attached technical memo dated September 22, 2023, be included as part of the Project File so that the recommendations included therein are documented as part of the Class EA process.

Best regards,

Mark Badali ([he/him](#)) | Senior Project Evaluator
Environmental Assessment Program Support | Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks
Mark.Badali1@ontario.ca | (416) 457-2155

From: John Tyrrell <JTyrrell@rvanderson.com>
Sent: October 11, 2023 2:23 PM
To: Badali, Mark (MECP) <Mark.Badali1@ontario.ca>
Cc: Ali Akl <alia@chatham-kent.ca>; Sarah Minard <sarahmi@chatham-kent.ca>; Christopher Paslawski <cpaslawski@rvanderson.com>
Subject: MECP Comments on Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Mark,

In response to your request for clarification of Comments 11 and 13 of your April 19, 2023 letter and your follow up email dated June 20, 2023, please note the following:

Comment 11 Excess Materials and Waste stated:

“In December 2019, the ministry released a new regulation under the Environmental Protection Act, titled On-Site and Excess Soil Management (O. Reg. 406/19) to support improved management of excess construction soil. For more information, please visit www.ontario.ca/page/handling-excess-soil. The Report should be revised to reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the ministry’s current guidance document titled “Management of Excess Soil

– A Guide for Best Management Practices” (2014) and “Rules for Soil Management and Excess Soil Quality Standards” (2022).”

As of this year, compliance with O.Reg. 406/19 is a requirement for all construction projects where excess soil is moved from a site. The CK PUC has construction projects ongoing and is undertaking these requirements through testing during the design phase and with contractual requirements for the contractors to fully meet the testing, documentation, and other requirements of this regulation. Therefore, we do not feel that specific mention of this is required in the Project File as it would be akin to stating that the project will need to be constructed in accordance with O.Reg 213/91 Construction Projects under OHSA.

Comment 13 Species at Risk stated:

“Consideration of potential impacts of the project on Species at Risk that may be present within the project study area is missing from the Report. As is described in Section A.2.3 of the Municipal Class EA parent document, Phase 2 of the Schedule B planning process involves identification of mitigating measures with respect to negative effects of the project. The Report should be revised to include Species at Risk in the inventory of the natural environment for the study area and a discussion of how potential impacts to Species at Risk and any appropriate mitigation measures were considered in the evaluation of alternative solutions.”

Please find attached a technical memo *Species at Risk Assessment Summary Memo – Sanitary System and Pump Station 14 in South Lynnwood Area , Municipality of Chatham Kent* dated September 22, 2023 that summarizes our review of the area of the preferred site. The report prepared by an RVA ecologist concluded that:

“...it is our opinion that the Project has a low likelihood of contravening the ESA as it relates to Eastern Foxsnake, SAR bats, and their habitats, provided the mitigation measures as outlined in this memo are followed. Despite this, guidance from MECP, in the form of a response to an IGF, is strongly recommended.”

We believe that this review and recommended follow up action meets the intent of Comment 13.

We believe that the above review and information addresses the main comments in your correspondence.

John Tyrrell, M.Sc.(Eng.), P.Eng.

Associate/Regional Manager



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John Tyrrell

From: John Tyrrell <JTyrrell@rvanderson.com>
Sent: October 11, 2023 2:23 PM
To: Mark.Badali1@ontario.ca
Cc: Ali Akl; Sarah Minard; Christopher Paslawski
Subject: MECP Comments on Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area
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Categories: Filed by Newforma

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John Tyrrell, M.Sc.(Eng.), P.Eng.

Associate/Regional Manager

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TECHNICAL MEMORANDUM

To: John Tyrrell **RVA:** 215945
From: Paul Mikoda
Date: September 22, 2023
Subject: Species at Risk Assessment Summary Memo– Sanitary System and Pump Station 14 in South Lynnwood Area , Municipality of Chatham Kent

1.0 Introduction

The Municipality of Chatham Kent (Municipality) has retained R.V. Anderson Associates Ltd. (RVA) to complete engineering services for sanitary sewer upgrades in the South Lynnwood Area to support new development as well as upgrade existing services for local residents currently utilizing private on-site sewage disposal systems (Project). As the preferred alternative for the construction of a pump station related to this project is to occur on municipal property, a Municipal Class Environmental Assessment (EA) was required. Upon review of the EA by the Ministry of the Environment, Conservation and Parks (MECP), it was determined that the EA had not sufficiently addressed the potential impacts of the project on Species at Risk (SAR) within the Study Area. In Ontario, provincially recognized SAR are protected under the *Endangered Species Act* (ESA 2007). This technical memorandum (memo) documents the methodology and summarizes the results of the preferred pump station location site review and associated construction envelope for SAR and their habitats.

1.1 Study Area

The Project is located on the eastern edge of the City of Chatham, the urban center of the Municipality of Chatham-Kent, Ontario. The general Project area is framed by the Thames River to the north, Highway 40 (Communications Road) to the east, Indian Creek Line to the south, and the Indian Creek Tile Drain to the west. The SAR assessment has been undertaken for the parcel located at 2 Glenmar Avenue, Chatham, ON – where Pump Station 14 is proposed to be constructed (Study Area).

Land use in the area consists of an older rural subdivision to the east with agricultural lands in the remaining proximal lands, with a well-treed hedgerow along Glenmar Avenue. A wide grassed swale contains the Indian Creek Tile Drain approximately 125 m to the southwest of the Study Area.

1.2 Background Review

In preparation for the site visit, a preliminary desktop review of the Study Area was completed and included an examination of publicly available information related to natural environment components within the Study Area. Public databases and agency consultation completed as a component of this review are listed in **Table 1.1**

Table 1.1 – Table Caption

Source	Data Reviewed
Ministry of Natural Resources and Forestry (MNRF)	<ul style="list-style-type: none"> › Natural Heritage Information Centre (NHIC) database Land Information Ontario (LIO) Mapping › NHIC Information Request
Other Publicly Available Data	<ul style="list-style-type: none"> › Ontario Breeding Bird Atlas (OBBA, Cadman <i>et al.</i> 2007) › Ontario Nature – Ontario Reptile and Amphibian Atlas (ORAA, Ontario Nature 2020) › iNaturalist (screened to include Research Grade and Threatened species up to 2023) › Ontario Moth Atlas (Kaposi <i>et al.</i> 2022) › Ontario Butterfly Atlas (MacNaughton <i>et al.</i> 2022)

2.0 Site Visit Summary

The Study Area was visited on the afternoon of August 29, 2023 by an RVA Ecologist/ Arborist to review the site for individuals and potential habitat of SAR protected under the ESA. Staff have experience working in this municipality and are familiar with species and habitats expected to be encountered, specifically with regard to flora and herpetofauna. The hedgerow along the northern edge of the Study Area (south side of Glenmar Avenue) was investigated via two transects for flora, fauna and wildlife habitats. The north side of Glenmar Avenue was investigated from the roadside in a single transect.

The agricultural field within the Study Area is managed as row-crop agriculture with soybeans installed for the 2023 season. The hedgerow was previously planted with Norway

Spruce (*Picea abies*), but native plant species are still dominant. Most notable is the presence of Virginia Wild Rye (*Elymus virginicus*) along with native sedge species (*Carex*) and Beebalm (*Monarda fistulosa*) which compose the majority of the lower vegetation layers. Additional notable woody species include Sharbark Hickory (*Carya ovata*), Hackberry (*Celtis occidentalis*), Smooth Sumac (*Rhus glabra*), and Cranberry (*Viburnum trilobum*). The remainder of the vegetation in this feature consists of typical pioneering and weedy native and non-native plant species. On the north side of Glenmar Avenue, vegetation is occasionally maintained. Trees are predominantly Black Walnut (*Juglans nigra*), while the ground layer is dominated by common open-habitat non-native and native grasses and forbs.

Wildlife was limited to commonly encountered species including Grey Squirrel (*Sciurus carolinensis*), Northern Cardinal (*Cardinalis cardinalis*), and Song Sparrow (*Melospiza melodia*). All are very common throughout the province and are expected to be resident in the area. Wildlife habitats observed included mammal burrows as well as trees, including mature tree in decline. The burrows were likely initiated/occupied by Striped Skunk (*Mephitis mephitis*) or Eastern Cottontail Rabbit (*Sylvilagus floridanus*) and were long-standing on the landscape with no fresh excavations present. Burrows also have the potential to act as hibernaculum for reptiles if certain microhabitat characteristics are met, including sufficient moisture levels and a depth which exceeds the frostline. Hedgerow trees, especially those in decline, may support various wildlife habitats associated with cavities or standing decaying wood, such as woodpecker nesting or mammals which shelter in cavities.

2.1 Species At Risk

No SAR protected under the ESA were observed within the Study Area. Surveys were completed outside of the breeding bird window, however no habitats expected to support SAR birds protected under the ESA (as listed in **Appendix A**) are present within the Study Area. As it nests in open habitats, Common Nighthawk (*Chordeiles minor*, Special Concern [SC]) could nest within the Study Area, but this is unlikely and this species is not afforded protection under the ESA. An adult Monarch (*Danaus plexippus*, Special Concern [SC]) was observed in the vicinity of the Study Area, and as Common Milkweed (*Asclepias syriaca*) is present, the site is candidate for supporting this species, however this species is also not protected under the ESA. Eastern Foxsnake (*Pantherophis gloydi*, Endangered [END]) are known to be present in Chatham-Kent County but there are no records nearby (1.5 km), and no individuals nor any critical habitat for this species were observed. Eastern Foxsnake is a wide-ranging species with the ability to use various habitats, it may utilize the

hedgerow within the Study Area for foraging and general movement. The core habitat for this species is expected to be associated with the Indian Creek Tile drain feature, located approximately 200 m to the west. This large open swale with a watercourse through it is typical of habitat preferred by Eastern Foxsnake, and the more proximal location of the water table near the bottom of the feature makes any void or burrow much more suitable for hibernation than those within the Study Area. Even though no snakes were observed during the site investigation, the presence of a record within 1.5 km conveys protection to any unmaintained/uncultivated habitat within that radius, making the hedgerow a Category 2 protected habitat for Eastern Foxsnake under the ESA.

Trees, especially those in decline, have the potential to provide maternity roost habitat for bats, including SAR. Trees with suitable habitats for bat maternity colonies (flaking bark, cavities or branches with dead leaves) are candidate habitat for SAR bats and presumed to be in use during the active season unless studies indicate otherwise.

3.0 Construction Considerations and Mitigation

MECP emphasizes that adherence to the ESA and any related advice is a proponent-driven process, whereby the proponent executing the activity must use their best judgement based on the evidence available to avoid a contravention of the Act. Based on the evidence available and knowledge of surveyors, the following assessments of SAR and their habitat in the Study Area that could potentially be affected by the Project are provided.

3.1 Eastern Foxsnake

The habitat regulation for Eastern Foxsnake (Carolinian population) protects key microhabitats as well as areas within 1.5 km of a record that are suitable for the species to carry out its life processes, including foraging, movement, and thermoregulation. No key habitat features for Eastern Foxsnake were observed during the field investigations, however, the hedgerow does have the capacity to support foraging and other activities for this species. As a consequent, the hedgerow within the Study Area is regulated as Category 2 habitat for Eastern Foxsnake. The regulation specifies that activities in regulated habitat can continue as long as the function of these areas is maintained, and individuals of the species are not killed harmed or harassed. It is understood that minor vegetation clearing is required to accommodate the construction of Pump Station 14, however the development itself is to occur on existing active agricultural lands. Agricultural lands are considered Category 3 regulated habitat, and Eastern Foxsnake have a high tolerance to landscape alterations in these areas. As vegetation clearing to support the project is unlikely to result in changes to the function of the habitat for Eastern Foxsnake, a permit under the ESA to

support the project is not anticipated. However, correspondence with MECP in the form of an Information Gathering Form (IGF) is strongly recommended, and should reference the following mitigation measures to reduce the potential for negative impacts to Eastern Foxsnake resulting from this Project:

- Persons involved in vegetation clearing operations during the active season for reptiles shall be knowledgeable of or be educated in appropriate conduct while working in the habitat of at-risk reptiles.
- Vegetation clearing should be minimized and occur outside of the active period for reptiles, generally November 1 through March 31 in SW Ontario.
- If vegetation cannot be cleared during this period, areas to be cleared should be surveyed for snakes by a qualified professional immediately prior to clearing. The qualified professional shall remain on site until clearing is completed.
- Wildlife fencing installed as per the Ontario guidelines (MNR Species At Risk Branch - Best Practices Technical Note - Reptile and Amphibian Exclusion Fencing (2013)) shall be installed along the perimeter of the work area, including access routes, areas required for stockpiling and final grading.
- Should a SAR be encountered, it shall be provided a 30 m buffer from operating equipment and given adequate time to leave the area before work is initiated.
- The presence of SAR shall be reported to the MECP within 48 hours of observation or the next working day, whichever comes first.
- Should a SAR require removal from the work area, a qualified professional shall be contacted to assist with this process.
- When a deceased or injured SAR is encountered, the specimen shall be placed in a non-airtight container maintained at an appropriate temperature and MECP staff shall be notified immediately regarding next steps. In the event MECP is not able to or does not respond promptly, the specimen shall be transferred into the care of a qualified wildlife custodian.
- As required during the active season, any additional areas required for stockpiling of any material or other activities will be screened for the presence of snakes by a qualified professional immediately prior to delineation of the stockpile area with wildlife barrier fencing, installed as per the Ontario guidelines (MNR Species At Risk Branch - Best Practices Technical Note - Reptile and Amphibian Exclusion Fencing (2013)).
- No fencing, including wildlife barrier or sediment, will use mesh or netting material for support. Wire-backed materials will be used instead, as required.
- Construction machinery and equipment that is left idle for over 1 hour or is parked overnight between April 1 to October 31 must be surveyed for the presence of SAR

snakes before (re)ignition. This visual examination shall include all lower components of the machinery, including operational extensions and running gear.

3.2 SAR Bats

The use of treed habitats by bats during the active season is poorly understood and consequently, guidance from MECP regarding SAR bat habitat is very conservative. It is assumed that bats, including SAR bats, can occur throughout the province wherever suitable habitat (typically trees) are present. To avoid potential contravention of the ESA by impacting protected bats, trees requiring removal should be removed between October 1 through March 31. Should trees be removed outside of that time periods, it is recommended that a bucket truck or similar equipment be utilized to thoroughly inspect the tree(s) prior to removal. The inspection should include an investigation for bats roosting in the canopy, especially broken dead branches, as well as in any visible cavities or seams that could support roosting bats. It is also recommended that the tree be removed methodically with care, checking for the presence of bats in suitable habitats are they are discovered during the removal process. Should bats be discovered during tree removal, the operation should immediately be paused and re-initiated on a subsequent day, following confirmation that no bats are actively using the tree.

3.3 Trees

Outside of the scope of the SAR assessment, but significant considering the context of the project, a recently wind-thrown Norway Spruce tree was examined during site investigations. It was observed to be affected by brown rot, which weakens the tensile strength of trees, and it is suspected to have failed during recent intense storms in the area. Fungal fruiting bodies, indicators of decay in trees, were observed on two other Norway Spruce trees within the hedgerow. Spruce trees in general are known to have large, shallow fibrous root systems and trees are known to graft their root systems together, which can allow pathogens such as fungus to spread from tree to tree underground. Combined, there is an implication that other Norway Spruce trees along this hedgerow may also be affected by brown rot decay. As a result, it may be prudent to consider additional assessments or mitigation for trees of this species that have the potential to impact the Study Area in the event of a whole tree failure.

4.0 Conclusion

Following confirmation of site conditions through field investigations, it is our opinion that the Project has a low likelihood of contravening the ESA as it relates to Eastern Foxsnake, SAR bats, and their habitats, provided the mitigation measures as outlined in this memo are followed. Despite this, guidance from MECP, in the form of a response to an IGF, is strongly recommended.



Paul Mikoda, B.Sc., ISA Arborist
Lead Terrestrial Ecologist

Attachment: Appendix A - Species at Risk Background Review

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APPENDIX A
SPECIES AT RISK BACKGROUND REVIEW

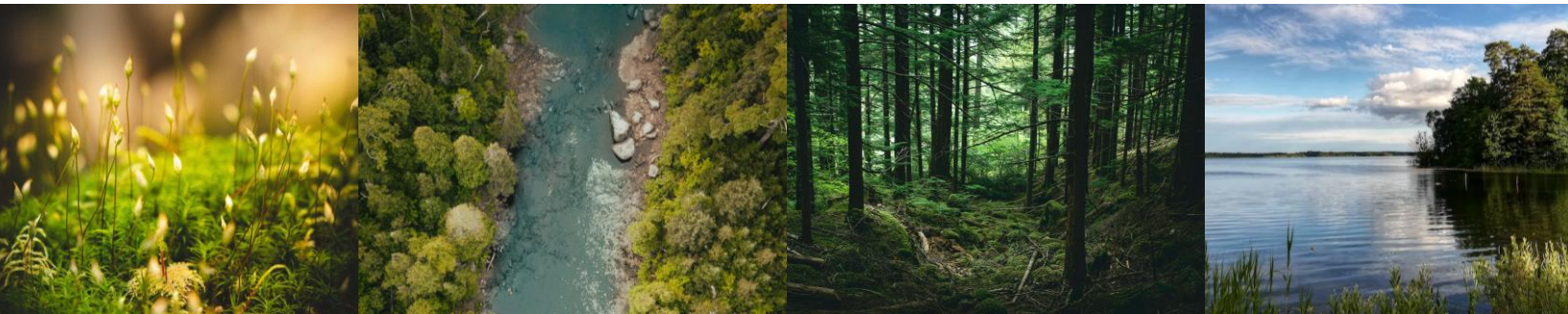


Table 1: Rare and At-Risk Species Potentially Present in the Vicinity of the Study Area

Common Name	Scientific Name	S-Rank	ESA/SARA Status	Source*	Last Observed (Year)
FLORA					
Cup Plant	<i>Silphium perfoliatum</i>	S2	-	NHIC iNAT	2019
Wingstem	<i>Verbesina alternafolia</i>	S3	-	NHIC iNAT	2019
Grey-headed Prairie Coneflower	<i>Ratibida pinnata</i>	S3	-	NHIC	-
Hoary Tick-trefoil	<i>Desmodium canescens</i>	S2	-	NHIC	-
FUNGI AND LICHENS					
-	-	-	-	-	-
BIRDS					
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B/G5	THR/THR	OBBA	2005
Eastern Meadowlark	<i>Sturnella magna</i>	S4B/G5	THR/THR	OBBA	2005
Chimney Swift	<i>Chaetura pelagica</i>	S3B/ G4G5	THR/THR	OBBA	2005
Barn Swallow	<i>Hirundo rustica</i>	S4B/G5	SC/SC	OBBA	2005
Purple Martin	<i>Progne subis</i>	S3B	-	OBBA	2005
Eastern Wood-pewee	<i>Contopus virens</i>	S4B/G5	SC/SC	OBBA	2005
Wood Thrush	<i>Hylocichla mustelina</i>	S4B/G4	SC/THR	OBBA	2005
Common Nighthawk	<i>Chordeiles minor</i>	S4B/G5	SC/THR	OBBA	2005
REPTILES AND AMPHIBIANS					
Eastern Foxsnake	<i>Pantherophis gloydi pop. 2</i>	S2/G5	END/END	ORAA NHIC	2022
Blanding's Turtle	<i>Emydoidea blandingii</i>	S3/G4	THR/END	ORAA	2017
Snapping Turtle	<i>Chelydra serpentina</i>	S4/G5	SC/SC	ORAA	2019
INVERTEBRATES (excludes mussels)					
Monarch	<i>Danaus plexippus</i>	S2N,S4B/ G4	SC/SC	OBA iNAT	2022
Yellow-banded Bumble Bee	<i>Bombus terricola</i>	S3S5	SC/SC	NHIC	-
Pink-legged Tiger Moth	<i>Spilosoma latipennis</i>	S3S4	-	OMA-	1940
Carolina Sphinx Moth	<i>Manduca sexta</i>	S2	-	OMA iNAT	2021
Broad-banded Forestsnail	<i>Allogona profunda</i>	S1S2	END/END	NHIC	-
Short-winged Green Grasshopper	<i>Dichromorpha viridis</i>	S2	-	iNAT	2023
American Burying Beetle	<i>Nicrophorus americanus</i>	SH	EXP/EXP	NHIC	1930
FISH AND MUSSELS					
Lake Sturgeon (Great Lakes - Upper St. Lawrence River population) -	<i>Acipenser fulvescens pop. 3</i>	-S2	THR/THR	NHIC	-1950
Ghost Shiner	<i>Notropis buchanani</i>	S3	-	NHIC	1980
Round Hickorynut	<i>Obovaria subrotunda</i>	S1	END/END	NHIC	1894
Snuffbox	<i>Epioblasma triquetra</i>	S1	END/END	NHIC	1894
Kidneyshell	<i>Ptychobranhus fasciolaris</i>	S1	END/END	NHIC	1894
Wavy-rayed Lampmussel	<i>Lampsilis fasciola</i>	S2	THR/SC	NHIC	1902

*Source Abbreviations:

INAT – iNaturalist.ca (filtered for Research Grade and Threatened)

NHIC – Natural Heritage Information Center

ORAA – Ontario Reptile and Amphibian Atlas (Ontario Nature)

OBA – Ontario Butterfly Atlas (Toronto Entomological Society)

OBBA – Ontario Breeding Bird Atlas (Birds Canada)

with the contractor that the management of excess soil will be conducted in accordance with O.Reg. 406/19. The Contractor will be responsible for retaining a Qualified Person (QP) for the duration of the project, to oversee all work associated with the excavation, storage, movement, transport, re-use, and disposal of excess soil in accordance with O.Reg. 406/19.

3. Regarding Paragraph 13, under Section 3.0 Existing Conditions, an additional paragraph was added to 3.12 Natural Environment as follows:

To avoid impacts to Species at Risk, a two stage procedure is proposed:

1. When looking to site the required infrastructure, preference should be given to routes and sites that have already experienced development (i.e. active municipal rights of ways such as roads and properties where existing activities such as agriculture are proposed); and
2. When the proponent has selected a site for the infrastructure, a more detailed Natural Environment Assessment of the site can be performed to confirm any site specific control measures.

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Notice of Completion

Class Environmental Assessment for the
Sanitary System and Pump Station 14 in South
Lynnwood Area Project File - Addendum



NOTICE OF COMPLETION
Municipal Class Environmental Assessment
for the Sanitary System and Pump Station 14 in South Lynnwood Area
May 22, 2023

The Study

The Chatham-Kent Public Utilities Commission (CK PUC) initiated a Municipal Class Environmental Assessment (MCEA) study for the construction of Sanitary System and Pump Station 14 in South Lynnwood Area in accordance with the planning and design process for “Schedule B” projects under the Environmental Assessment Act as outlined in the Municipal Engineers Association’s Municipal Class Environmental Assessment document (2023).

This MCEA study reviewed and confirmed municipal sanitary servicing requirements and identified capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA is siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewer connection to the community of Chatham’s sewage collection system.

The Municipal Class EA evaluated a set of alternatives that included: Do Nothing, Private/Development Level Solution; Sewer Collection System to Interim Pumping Station in Area A; and Gravity Sewer Connection to Pumping Station 14. Through an evaluation of alternatives, the study identified the preferred solution to be a Gravity Sewer Connection to Pumping Station 14.

At this time, a Project File Report has been completed to document the Class EA process, which identifies the preferred solution and design concepts for Pump Station 14 and gravity sewers. Subject to comments received as a result of this notice and the receipt of necessary approvals, CK PUC intends to proceed with the design and construction of the preferred solution.

Project Report for Public Review

The Project File Report will be available on public record for a public and agency review period from May 22 to June 19, 2023. Hard copies of the Project File Report will not be available at the Municipality of Chatham-Kent offices. Instead, an electronic copy of this report will be accessible online through the Let’s Talk Chatham-Kent website (www.letstalkchatham-kent.ca).

Project webpage link: <https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

Interested persons may provide written comments to our project team by June 19, 2023. All comments and concerns should be sent directly to Ali Akl at CK PUC and John Tyrrell at RVA, per contact details below.

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/comprehensive EA approval before being able to proceed), or that conditions be imposed (e.g. require further studies), only on the grounds that the requested order may prevent, mitigate, or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested (request for conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights and any information in support of the statements in the request. This will ensure that the Ministry is able to efficiently begin reviewing the request. Please visit the Ministry’s website for more information on requests for orders under Section 16 of the Environmental Assessment Act at: <https://www.ontario.ca/page/class-environmental-assessments-section-16-order>

The request should be sent in writing or by email to the Ministry of Environment, Conservation and Parks per contact details below, and also copied to Ali Akl at CK PUC and John Tyrrell at RVA:

<p>Minister of the Environment, Conservation and Parks Ministry of Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto ON M7A 2J3 minister.mecp@ontario.ca</p>	<p>Director, Environmental Assessment Branch Ministry of Environment, Conservation and Parks 135 St. Clair Ave. W, 1st Floor Toronto ON, M4V 1P5 EABDirector@ontario.ca</p>	<p>Ali Akl, P.Eng., PMP. Project Engineer Chatham-Kent Public Utilities Commission Municipality of Chatham-Kent 325 Grand Ave East Chatham, ON N7L 1W9 alia@chatham-kent.ca</p>	<p>John Tyrrell, P.Eng. Senior Project Manager R.V. Anderson Associates Limited (RVA) 557 Southdale Road East, Suite 200 London, ON N6E 1A2 jtyrrell@rvanderson.com</p>
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If there is no request received by June 19, 2023, CK PUC will proceed with design and construction of this project.

This Notice of Completion was first issued on May 22, 2023.

Under the Freedom of Information and Protection of Privacy Act (RSO 1990, c.F.31), Municipal Freedom of Information and Protection of Privacy Act (RSO 1990, c.M.56) and the Environmental Assessment Act, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and may be released, if requested, to any person.

Correspondence Received from Residents and Agencies

Class Environmental Assessment for the
Sanitary System and Pump Station 14 in South
Lynnwood Area Project File - Addendum



John Tyrrell

From: Valerie Towsley <Valerie.Towsley@ltvca.ca>
Sent: May 23, 2023 9:38 AM
To: alia@chatham-kent.ca; John Tyrrell
Cc: Jason Homewood; Jason Wintermute; Elizabeth Philip
Subject: Class EA - South Lynnwood Area Sanitary System and Pump Station 14

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Good morning

We just want to make you aware that the entire project area is subject to flooding under Regulatory Storm conditions. The area that's flagged in the study noted as the 'approximate regulatory flood line', is the area directly affected by the Thames River. The remainder of the lands that flood are as a result of back up flooding from McGregor Creek.

Any works within the study area will require a permit from this office. You can find our fillable on-line forms here:
Permit - <https://www.lowerthames-conservation.on.ca/wp-content/uploads/2020/10/LTVCA-Permit-Application-Form-2020-editing.pdf>
Fee schedule - <https://www.lowerthames-conservation.on.ca/wp-content/uploads/2022/06/LTVCA-Section-28-Permit-Fees-Oct-21-2022.pdf>

We do not foresee any problems with issuing a permit for the works. Flood proofing may be required for the pump station to ensure electrical and mechanical is above the minimum opening requirement, which is 181.5 m CGVD 1928 revised 1978.

*Please note my work hours may be different than yours, please do not feel obligated to respond until you are on work time.

Valerie Towsley
Watershed Resource Planner
Lower Thames Valley Conservation Authority
100 Thames Street
Chatham, ON N7L 2Y8
519-354-7310 ext.226
valerie.towsley@ltvca.ca
www.ltvca.ca



'Common sense and sense of humor are the same thing, moving at different speeds. A sense of humor is just common sense dancing.' William James (1842-1910)

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John Tyrrell

From: John Tyrrell
Sent: June 1, 2023 9:13 AM
To: Samya Chams
Subject: FW: South Lynnwood Area Sanitary System and Pump Station Project

Can you please file in: [R:\2021\215945 - CK PUC-PS 9A and Sewer EA Design\07 EA, Planning, Studies\Project File\Responses to Project File](#) .

Thanks

John Tyrrell, M.Sc.(Eng.), P.Eng.

Associate/Regional Manager



R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200, London ON N6E 1A2
t 519 681 9916 ext. 5038 | m 519 878 7903

[LinkedIn](#) | [Facebook](#) | [Website](#)



From: [REDACTED]
Sent: Thursday, June 1, 2023 9:08 AM
To: Ali Akl <alia@chatham-kent.ca>
Cc: Ryan Doyle <Ryan.Doyle@chatham-kent.ca>; Trevor Thompson <Trevor.Thompson@chatham-kent.ca>; Anthony Ceccacci <Anthony.Ceccacci@chatham-kent.ca>; shouston@mnsi.net; Ryan Jacques <RYANJ@chatham-kent.ca>; Sarah Minard <sarahmi@chatham-kent.ca>; John Tyrrell <JTyrrell@rvanderson.com>
Subject: RE: South Lynnwood Area Sanitary System and Pump Station Project

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Good morning Ali,
Thank you for responding.
Have a good day!

[REDACTED]

Regards,

[REDACTED]

[REDACTED]

From: Ali Akl <alia@chatham-kent.ca>

Sent: Thursday, June 1, 2023 8:54 AM

To: [REDACTED]
Cc: Ryan Doyle <Ryan.Doyle@chatham-kent.ca>; Trevor Thompson <Trevor.Thompson@chatham-kent.ca>; Anthony Ceccacci <Anthony.Ceccacci@chatham-kent.ca>; [REDACTED] Ryan Jacques <RYANJ@chatham-kent.ca>; Sarah Minard <sarahmi@chatham-kent.ca>; John Tyrrell <JTyrrell@rvanderson.com>
Subject: FW: South Lynnwood Area Sanitary System and Pump Station Project

Hello [REDACTED]
Property owners along Eastlawn Road will have the option to connect to the sewer and it will not be mandatory.

Ali Akl, M.Eng., P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission (PUC)
Municipality of Chatham-Kent

Phone: 226-312-2023 x 4347
Cell : 226-229-0568
E-mail: alia@chatham-kent.ca
www.chatham-kent.ca



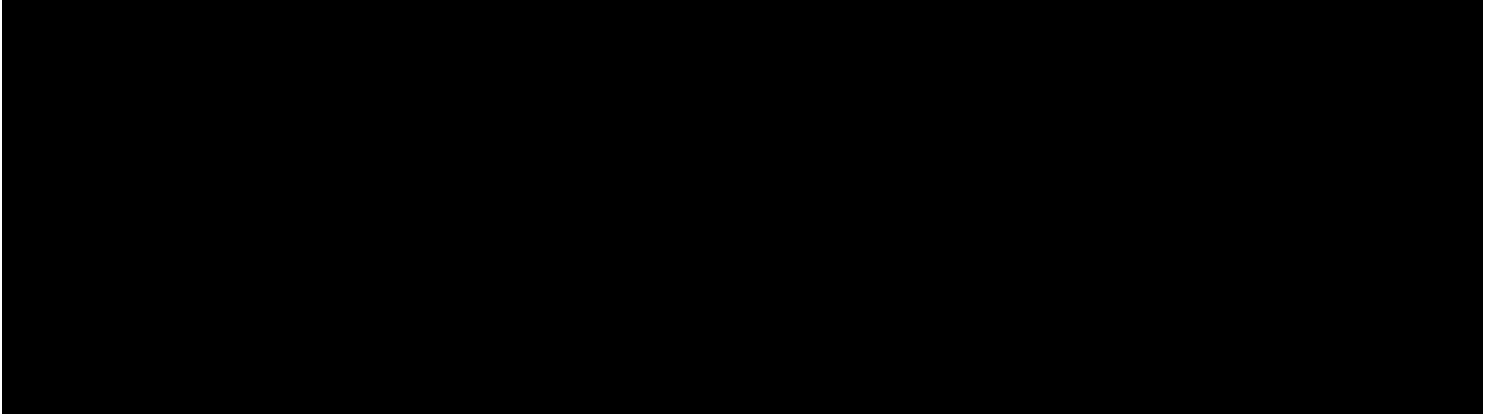
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From: [REDACTED]
Sent: June 1, 2023 8:17 AM
To: Ryan Doyle <Ryan.Doyle@chatham-kent.ca>; Trevor Thompson <Trevor.Thompson@chatham-kent.ca>; Anthony Ceccacci <Anthony.Ceccacci@chatham-kent.ca>; CKpuc <CKpuc@chatham-kent.ca>
Cc: [REDACTED] Ryan Jacques <RYANJ@chatham-kent.ca>
Subject: South Lynnwood Area Sanitary System and Pump Station Project

Good morning All,
During a neighborhood meeting regarding the proposed residential development in south Lynnwood the attendees were told that we would not be required to connect to any sanitary sewer systems that would be constructed.
As a resident & property owner at [REDACTED], who installed a new septic system 5 years ago, I am asking you to confirm that connection to the new system will not be mandatory.

Thanks

Regards,



John Tyrrell

From: John Tyrrell
Sent: June 1, 2023 11:48 AM
To: Samya Chams
Subject: FW: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

Can you please file in: [R:\2021\215945 - CK PUC-PS 9A and Sewer EA Design\07 EA, Planning, Studies\Project File\Responses to Project File](#) .

Thanks

John Tyrrell, M.Sc.(Eng.), P.Eng.

Associate/Regional Manager



R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200, London ON N6E 1A2
t 519 681 9916 ext. 5038 | m 519 878 7903

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From: Samya Chams <schams@rvanderson.com>
Sent: Monday, May 29, 2023 10:18 AM
To: Abby LaForme <Abby.LaForme@mncfn.ca>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; John Tyrrell <JTyrrell@rvanderson.com>; Ali Akl <alia@chatham-kent.ca>
Subject: RE: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

Good morning Abby,

Thank you so much for your email. I have made note of this on our end.

Regards,

Samya

Samya Chams, B.A. (she/her)

Administrative Assistant/ Project Support Coordinator



R.V. Anderson Associates Limited
 557 Southdale Road East, Suite 200, London ON N6E 1A2
 t 519 681 9916 ext. 5021

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SUMMER HOURS NOTICE: RVA offices will be closed each Friday from June 2nd to September 8th as we celebrate the summer season. We will be available for project and construction related matters. For urgent requests, please contact mobile where provided.

From: Abby LaForme <Abby.LaForme@mncfn.ca>
 Sent: Monday, May 29, 2023 10:07 AM
 To: Samya Chams <schams@rvanderson.com>
 Cc: Mark LaForme <Mark.LaForme@mncfn.ca>
 Subject: RE: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

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Good Morning Samya,

Thank you for reaching out to MCFN DOCA regarding the MCEA Study- Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area .
 Unfortunately, Chatham- Kent is outside our Treaty Lands and Territory.
 I have attached a map for your convenience.

Thank you

Abby (LaForme) Lee
Acting Consultation Coordinator



Mississaugas of the Credit First Nation (MCFN)
Department of Consultation & Accommodation (DOCA)
4065 Highway 6, Hagersville, ON N0A 1H0
Ph: (905) 768 – 4260
Email: Abby.LaForme@mncfn.ca

From: Samya Chams <schams@rvanderson.com>
 Sent: Tuesday, May 23, 2023 8:57 AM
 To: Samya Chams <schams@rvanderson.com>
 Cc: John Tyrrell <JTyrrell@rvanderson.com>; Ali Akl <alia@chatham-kent.ca>
 Subject: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

Good morning,

On behalf of the Chatham Kent Public Utilities Commission (CK PUC), please find attached the Notice of Completion for the Sanitary and Pump Station 14 in South Lynnwood Area Municipal Class Environmental Assessment process.

If there is no request received by June 19, 2023, CK PUC will proceed with design and construction of this project.

Thank you,

Samya

Samya Chams, B.A. (she/her)

Administrative Assistant/ Project Support Coordinator



R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200, London ON N6E 1A2
t 519 681 9916 ext. 5021

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Markup Response Form

Application Date May 23, 2023 **Applicant:** R.V. Anderson Associates
Date Returned: June 5, 2023
Rogers Ref. No.: G23AS77 **Applicant Ref. No.:** N/A
Location / Municipality: South Lynnwood Area / Chatham

**Rogers Communications has reviewed your drawing(s) as requested.
Our comments follow below with an "X" indicating Rogers' stance on your proposed plan.**

Markup Response is valid for 6 months from the date issued.

Please inform Rogers Communications a minimum of 6 - 12 months in advance of the proposed construction schedule in order to coordinate our plant relocation.

Contact Ontario One Call at 1-800-400-2255 or www.on1call.com at least 5 business days before beginning work to obtain utility locates.
Hand dig / Vac truck when crossing, or within 1.0m of existing Rogers plant.
Plant is to approximation.

Comments:

- Markup Only** Not for PUCC Approval
- For your Reference** Rogers Communications currently has existing plant as marked on your drawing. Our standard depth in this municipality is: 1m.
Please ensure you maintain clearances of 0.3m vertically and 0.6m horizontally.
- No Conflict** Rogers Communications currently does not possess existing plant in the area indicated on your attached plans.
- CONFLICT** Your proposed construction appears to encroach within existing Rogers Communications plant. Please ensure you maintain clearances of 0.3 m vertically and 1 m horizontally. For hand dig maintain 0.6 m and for directional bore maintain 1.0 m horizontally. Please relocate your proposed construction to allow adequate clearance.

CAUTION NOTES:

- Use vactruck and expose ducts, maintain minimum of 0.6m clearance.
- Rogers Communications has aerial plant in this area, as it is indicated on the attached plans.
- Fiber Optic Cable is present in the area of your proposed construction. Please obtain locates and maintain minimum 1.0m/1.0m clearance.
- Proposed Fiber Optic Cable in a joint use duct structure .
- Plant currently under construction.

John Tyrrell

From: Ali Akl <alia@chatham-kent.ca>
Sent: June 15, 2023 2:33 PM
To: [REDACTED]
Cc: Sarah Minard; jtyrrell@rvanderson.com
Subject: RE: MCEA For Sanitary System Pump Station14- South Lynnwood, Chatham-Kent

Categories: Filed by Newforma

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Hello [REDACTED]

Please see my response to your questions in **RED**:

- 1) We (the residents) have been told that there will be no requirement to hook into sanitary sewers. Is this still true?
The existing residents on Eastlawn (between Cameron and Glenmar) will have the option to connect to the sewer if they wish. Other residents will need to petition to have the sewer extended to their area. The new developer will be required to connect.
- 2) We have been told the developer will be bearing 100% of the cost bringing sanitary sewers into the area. Is this still true?
The developer will bear the cost of the percentage of their predicted flows relative to the pump station capacity. In other words, the municipality will bear the cost for oversizing the system for future expansion.
- 3) Will there ever be a requirement for all residents in the Lynnwood area to hook into these sewers? If so , what would be the catalyst for this to occur and who would likely bear the cost for this expansion?
It is possible that the residents would be required to connect to the sewer if the ministry at the provincial or federal level make is necessary. An example of this would be contamination of surface water due to septic tank failures.

Ali Akl, M.Eng., P.Eng., PMP.

Project Engineer

Chatham-Kent Public Utilities Commission (PUC)

Municipality of Chatham-Kent

Phone: 226-312-2023 x 4347

Cell : 226-229-0568

E-mail: alia@chatham-kent.ca

www.chatham-kent.ca



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From: [REDACTED]
Sent: June 12, 2023 4:31 PM
To: Ali AKI <alia@chatham-kent.ca>; jtyrrell@rvanderson.com
Subject: MCEA For Sanitary System Pump Station14- South Lynnwood, Chatham-Kent

Gentleman: I am in receipt of the Notice of Completion. I have reviewed the report on LetstalkCK and I do have a couple of questions to confirm communication from CK planning officials and the contents of this report are consistent.

Firstly, I am a current resident in the Lynnwood area more specifically on [REDACTED].

- 1) We (the residents) have been told that there will be no requirement to hook into sanitary sewers. Is this still true?
- 2) We have been told the developer will be bearing 100% of the cost bringing sanitary sewers into the area. Is this still true?
- 3) Will there ever be a requirement for all residents in the Lynnwood area to hook into these sewers? If so , what would be the catalyst for this to occur and who would likely bear the cost for this expansion?

Any other relevant information you can provide would be appreciated.

Thank you

[REDACTED]

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Correspondence Received from MECP and Response

Class Environmental Assessment for the
Sanitary System and Pump Station 14 in South
Lynnwood Area Project File - Addendum



MECP Correspondence

John Tyrrell

From: Badali, Mark (MECP) <Mark.Badali1@ontario.ca>
Sent: June 20, 2023 1:51 PM
To: John Tyrrell; Ali Akl
Cc: Samya Chams; Wilson, Marcelina (MECP); Bechard, Marc (MECP)
Subject: RE: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area
Attachments: MECP PRU Comments - Draft PFR - C-K PUC MCEA Sch B Sanitary System and PS14.pdf

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Hi Ali & John,

Thank you for sharing the Notice of Completion for the Sanitary System and Pump Station 14 in South Lynnwood Area project (Municipal Class EA, Schedule B). Thank you for revising the final Project File Report to reflect many of the ministry's comments on the draft Report.

Please address the ministry's comments #11 & #13 from the attached "*Project Review Unit Comments*" letter, dated April 19, 2023, that MECP had provided in response to the draft Project File Report for this project. Also, the ministry recommends that the attached letter and this email correspondence also be included in the Project File in order to maintain an accurate record of agency correspondence and consultation for the project.

We look forward to receiving a written response from the Chatham-Kent Public Utilities Commission to address the comments provided.

Thank you,

Mark Badali ([he/him](#)) | Senior Project Evaluator
Environmental Assessment Program Support | Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks
Mark.Badali1@ontario.ca | (416) 457-2155

From: Samya Chams <schams@rvanderson.com>
Sent: May 23, 2023 8:57 AM
To: Samya Chams <schams@rvanderson.com>
Cc: John Tyrrell <JTyrrell@rvanderson.com>; Ali Akl <alia@chatham-kent.ca>
Subject: Notice of Completion- Sanitary System and Pump Station 14 in South Lynnwood Area

CAUTION -- EXTERNAL E-MAIL - **Do not click links or open attachments unless you recognize the sender.**

Good morning,

On behalf of the Chatham Kent Public Utilities Commission (CK PUC), please find attached the Notice of Completion for the Sanitary and Pump Station 14 in South Lynnwood Area Municipal Class Environmental Assessment process.

If there is no request received by June 19, 2023, CK PUC will proceed with design and construction of this project.

Thank you,

Samya

Samya Chams, B.A. (she/her)

Administrative Assistant/ Project Support Coordinator



R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200, London ON N6E 1A2
t 519 681 9916 ext. 5021

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**Ministry of the Environment,
Conservation and Parks**

**Ministère de l'Environnement,
de la Protection de la nature
et des Parcs**

Environmental Assessment
Branch

Direction des évaluations
environnementales

1st Floor
135 St. Clair Avenue W
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Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télééc. : 416 314-8452

Via E-mail Only

April 19, 2023

John Tyrrell
Associate/Regional Manager
R.V. Anderson Associates Limited
jtyrrell@rvanderson.com

**Re: Sanitary System and Pump Station 14 in South Lynnwood Area
Municipality of Chatham-Kent
Municipal Class Environmental Assessment – Schedule B
Project Review Unit Comments – Draft Project File Report**

Dear John Tyrrell,

Thank you for providing the ministry with an opportunity to comment on the draft Project File Report (Report) for the above noted Class Environmental Assessment (EA) project. Our understanding is that in order to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands in South Lynnwood Area, the Municipality of Chatham-Kent (the proponent) has determined that the preferred alternative is to construct a gravity sewer running along Eastlawn Rd and Glenmar Ave then connecting to a new Pump Station 14, which would connect to the existing Pump Station 21 forcemain via a forcemain. The Ministry of the Environment, Conservation and Parks (ministry) provides the following comments for your consideration.

General

- 1) Figure 2.1 included in section 2.2 of the Report uses the Exhibit A.2 Municipal Class EA Planning and Design Process figure from the 2015 amended version of the parent Class EA document. Since section 2.1 of the Report identifies that this project is being undertaken in accordance with the requirements of the March 2023 amended version of the Municipal Class EA, the ministry recommends revising Figure 2.1 to use the revised Exhibit A.2 figure in the March 2023 amended version of the Class EA parent document.

- 2) Sections 2.5 and 3.2.2 of the Report refer to a Master Plan but do not identify the Master Plan that is being referenced. The ministry presumes that these instances are in reference to the *Municipality of Chatham-Kent Water and Wastewater Master Plan Addendum Report (Final), June 2018 (Dillon)* that is first referenced in section 3.3. To improve the clarity of the Report, the ministry recommends that this Master Plan be identified the first time it is referenced, at a minimum.
- 3) Section 2.8 requires a grammatical revision to clarify the meaning of the sentence, *“Based on discussions and recommendations provided by the Ministry of Environment and Conservation of Parks (MECP) regional office, the Municipality contacted Aboriginal Affairs and Northern Development Canada (AANDC) and the Ministry of Aboriginal Affairs (MAA) separately from the general notifications sent to review agencies.”*
- 4) Section 3.1.2 of the Report identifies that Significant Woodlands are considered to be critical environmental resources and notes that Figure 3.2 shows that these features are absent from the study area. However, Figure 3.2 depicts an arrow labeled “Significant Woodland” pointing to a corresponding green-coloured area within the red border that presumably represents the study area. The proponent should consider revising the Report as necessary to address this apparent contradiction between the text and the figure and identifying the relevance of the Significant Woodland feature that is located within the study area, if any, and if applicable.
- 5) Section 3.2.2 notes that Table 3.3 provides information on the Pumping Stations 9 and 21 as described in the Master Plan, but in the Report the corresponding table appears to be labeled Table 3.2. If that is the case, then *“Table 3.3”* should be revised to *“Table 3.2”*.
- 6) Section 3.3 states with reference to forcemain capacity, *“This is summarized in Table 3.5 below.”* If actual Table title and the List of Tables at the beginning of the Report are correct, then this should be corrected to *“This is summarized in Table 3.4 below”*.
- 7) In section 5.3 of the Report, a grammatical revision is required to correct the sentence, *“This option represents to lowest cost to the CK PUC over the next 20-year period.”* to *“This option represents the lowest cost to the CK PUC over the next 20-year period.”*

Planning and Policy

- 8) A discussion of the provincial planning and policy context, particularly of the Provincial Policy Statement (PPS), 2020, is missing from the Report. As noted in Section C.1.1 of the Municipal Class EA document (<https://municipalclassea.ca/manual/page45.html>), the PPS is a key consideration for identifying land-use planning objectives and evaluating alternative solutions in Phase 2 the Class EA process for water/wastewater projects. The ministry recommends revising the Report to include a discussion of the PPS.

Indigenous Consultation

- 9) Section 2.8 of the Report should be revised to identify which communities were consulted through the Class EA process. The ministry recommends that proponents include a summary of questions, comments and concerns raised by communities, and how they have been or will be addressed. If none were received, then this should be documented in the Report.

- 10) The proponent should continue to engage with all communities that have been engaged with to date as the Class EA process proceeds.

Excess Materials and Waste

- 11) In December 2019, the ministry released a new regulation under the Environmental Protection Act, titled *On-Site and Excess Soil Management* (O. Reg. 406/19) to support improved management of excess construction soil. For more information, please visit www.ontario.ca/page/handling-excess-soil. The Report should be revised to reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the ministry's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#)" (2014) and "[Rules for Soil Management and Excess Soil Quality Standards](#)" (2022).
- 12) All waste generated during construction must be disposed of in accordance with ministry requirements.

Species at Risk

- 13) Consideration of potential impacts of the project on Species at Risk that may be present within the project study area is missing from the Report. As is described in Section A.2.3 of the Municipal Class EA parent document, Phase 2 of the Schedule B planning process involves identification of mitigating measures with respect to negative effects of the project. The Report should be revised to include Species at Risk in the inventory of the natural environment for the study area and a discussion of how potential impacts to Species at Risk and any appropriate mitigation measures were considered in the evaluation of alternative solutions.
- 14) It is the responsibility of the proponent to ensure that Species at Risk are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the *Endangered Species Act* (ESA). If the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact SAROntario@ontario.ca to undergo a formal review under the ESA. The ministry recommends that any potential authorization requirements under the ESA be documented in the Report.

Surface Water

- 15) As is described in Section A.2.3 of the Municipal Class EA parent document, Phase 2 of the Schedule B planning process involves the preparation of an inventory of the environment potentially affected by the project. Furthermore, Section A.4.1 of the Municipal Class EA document states, "*The Project File shall be organized chronologically in such a way as to clearly demonstrate that the appropriate steps in Phases 1 and 2 have been followed and explain the following: ...description/inventory of the environment.*"

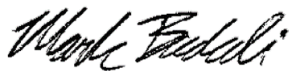
While the description of the natural environment provided in section 3.1.2 of the Report does discuss provincially and locally significant wetlands, it should be revised to include other surface water bodies within the study area, if any, such as the Thames River, municipal drains, and any other features (e.g., creeks, roadside ditches, ponds, open-water). This information is necessary for traceability of decision-making during the evaluation of alternative solutions and their potential impacts on the environment.

- 16) Section 6.5.3 of the Report states, “*Should proactive dewatering be required during construction, a permit to take water (PTTW) will be obtained...*” Please note that a PTTW under the *Ontario Water Resources Act* will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking Regulation O. Reg. 63/16. These prescribed water-taking activities may require registration in the Environmental Activity and Sector Registry instead of a PTTW.
-

Thank you for circulating this draft Report for the ministry’s consideration. Please document the provision of the draft Report to the ministry as well as this Project Review Unit Comments letter in the final report, and please provide an accompanying response letter to support our review of the final report. A copy of the final Notice should be sent to the ministry’s Southwest Region EA notification email account (eanotification.swregion@ontario.ca).

Should you or any members of your project team have any questions regarding the material above, please contact me at mark.badali1@ontario.ca.

Sincerely,



Mark Badali
Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks

cc Marcelina Wilson, Supervisor, Windsor Area Office, MECP
Marc Bechard, Water Compliance Supervisor, Sarnia District Office, MECP
Samya Chams, Administrative Assistant/Project Support Coordinator, R.V. Anderson Associates Limited

Proponent Response

Approaches for considering and addressing climate change in project planning are through 1) Reducing a project's effect on climate change; and 2) Increasing the project's resilience to climate change.

With regards to the project's resilience to climate change, one major consideration to take into implementation is siting PS outside of the current Regulated Area and through grading ensuring that it has a free board above the regulatory elevation with regard to door and chamber openings.

6.7 Cultural Heritage and Archaeological Resources

As previously noted, there are no known significant cultural heritage resources within the Study Area. The proposed route of the gravity sewer to PS 14 and the forcemain discharging from PS14 are along municipal road right of ways which have previously disturbed any potential cultural or archaeological heritage resources. The CK PUC has made a commitment to have the site of PS 14 (once selected) reviewed through a Stage 1 and 2 Archaeological Assessment to determine if there is any potential for cultural heritage and archaeological resources.

6.8 Municipal Infrastructure and Utilities

Detailed design will attempt to minimize impacts to existing utilities. During the early phase of detailed design, the intention is to confirm the location, depths, and relocation/protection requirements of existing utilities through direct consultation with the affected utility companies.

6.9 Monitoring During Construction

The mitigation measures identified in this report shall be written into the contract specifications. During construction, the Contract Administrator will ensure that monitoring/inspection of the project works is undertaken to ensure that all environmental commitments identified in the Project File Report are adhered to by the contract team. Following completion of construction (i.e. post construction), an inspection should be undertaken to ensure the effectiveness of the identified mitigation measures.

6.10 Excess Soils

It is anticipated that construction works associated with this project will generate excess soil. As with any requirement that is governed under a current regulation or statute, the CK PUC will mandate through its contract with the contractor that the management of excess soil will be conducted in accordance with O.Reg. 406/19. The Contractor will be responsible for retaining a Qualified Person (QP) for the duration of the project, to oversee all work associated with the excavation, storage, movement, transport, re-use, and disposal of excess soil in accordance with O.Reg. 406/19.

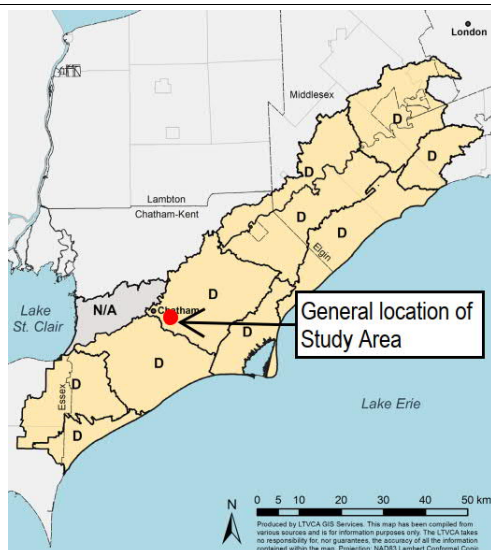


Figure 3.3 – LTVCA 2023 Surface Water Quality Report

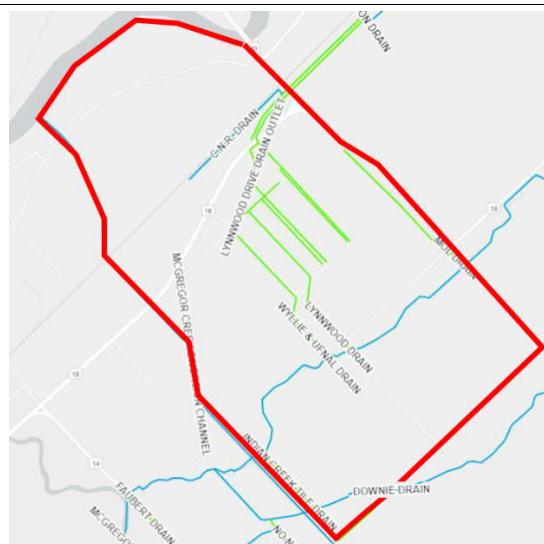


Figure 3.4 – Existing Municipal Drains within the Study Area

To avoid impacts to Species at Risk, a two stage procedure is proposed:

1. When looking to site the required infrastructure, preference should be given to routes and sites that have already experienced development (i.e. active municipal rights of ways such as roads and properties where existing activities such as agriculture are proposed);
2. When the proponent has selected a site for the infrastructure, a more detailed Natural Environment Assessment of the site can be performed to confirm any site specific control measures.

3.1.3 Archaeological/Cultural Environment

A review was made of the Municipality's Heritage Conservation website ([Heritage Conservation \(chatham-kent.ca\)](http://Heritage Conservation (chatham-kent.ca))). Based upon reviewing the Listed Properties in the Community of Harwich on this website, there were no historic properties found to be within the Study Area.

Once either one site or a shortlist of sites for Pumping Station 14 are identified, a Stage 1 and 2 Archaeological Assessment can be undertaken to confirm the presence or absence of archaeological resources in accordance with current regulation and practices.

3.1.4 Regulatory Flood Plain

The general location of the Regulated Area was noted in Figure 3.1. The potential location for Pumping Station 14 should consider the proximity to this area in terms of approval requirements and flood protection.

3.1.5 Source Water Protection

Under the MECP 2006 Clean Water Act, municipalities are required to conform to Source Protection Plans (SPPs) to protect surface and groundwater sources to municipal drinking water systems. The study area for this project is under the jurisdiction of the Thames-Sydenham and Region Source Protection Plan (SPR). The SPR identifies where there is potential for significant threat to the quality and quantity of groundwater through delineation of Wellhead Protection Areas (WHPAs), Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), and Intake Protection Zones (IPZs).

**Class Environmental Assessment for the
Sanitary System and Pump Station 14 in South Lynnwood Area
Project File**

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1.0 Introduction

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (Class EA) study for the construction of a Sanitary System and Pumping Station 14 in South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water, collection, and treatment of sewage in the Municipality of Chatham-Kent.

The South Lynnwood Area that is the study area for this project is described as the area within the following boundary:

- South bank of the Thames River to the north;
- Indian Creek Road to the south;
- Communications Road to the east; and
- The McGregor Creek Diversion Channel to the west.

The study area is shown in Figure 1.1. Within this area there are 123 single family residential lots which have on site sanitary servicing. A Hydro One easement bisects the area as does a Canadian National Railway line. The study area is very flat varying between 180.0m and 183.0 m above sea level. The Thames River is located to the north outside of the study area but there is a regulatory flood line which runs south of the railway line in the vicinity of Park Avenue East and Communications Road as far south as the Hydro One easement.

This Class EA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the Class EA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham's sewage collection system.

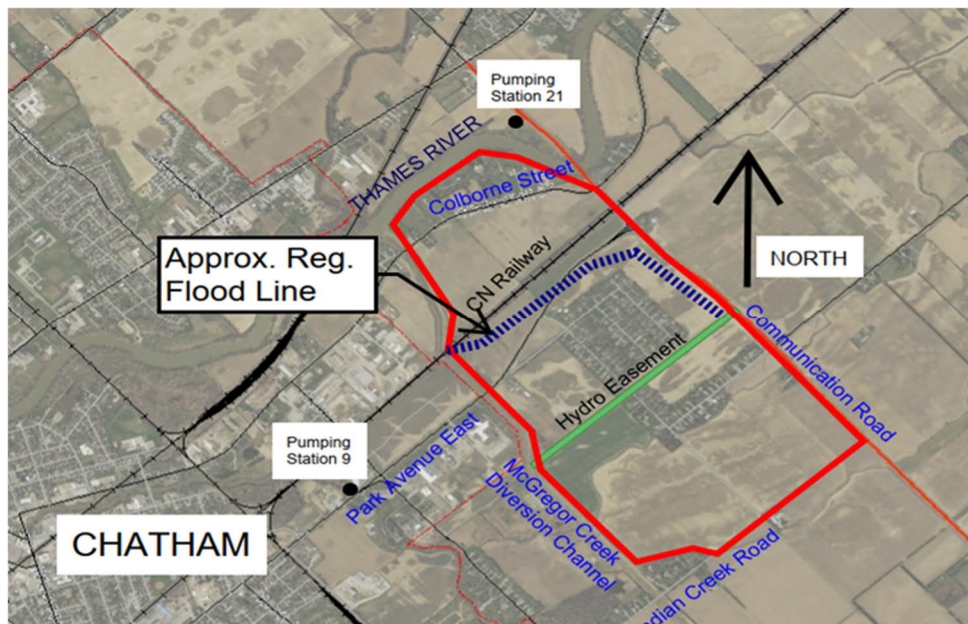


Figure 1.1 – Existing Study Area

2.0 PLANNING FRAMEWORK

2.1 Overview

This Class EA is being undertaken in accordance with the requirements of the Municipal Class Environmental Assessment (MCEA) March 2023. A Class EA is a planning document which sets out the process that a proponent must follow to meet the requirements of the Ontario Environmental Assessment Act for a class or category of infrastructure projects. Projects are divided into schedules based on the type of projects and activities. Schedules are categorized as Exempt, B and C with reference to the magnitude of their anticipated environmental impact. These are described briefly in the following paragraphs.

Exempt projects most of which were formerly classified as Schedule A and A+ projects, include various municipal maintenance, operational activities, rehabilitation works, minor reconstruction or replacement of existing facilities, and new facilities that are limited in scale and have minimal adverse effects on the environment. These projects are exempt from the requirements of the Environmental Assessment Act.

Schedule B projects are those which have a potential for adverse environmental effects. A screening process must be undertaken which includes consultation with directly affected public and relevant review agencies. Projects generally include improvements and minor expansions to existing facilities. The project process must be filed, and all documentation prepared for public and agency review.

Schedule C projects have the potential for significant environmental effects and must follow the full planning and documentation procedures specified in the Class EA document. An Environmental Study Report (ESR) must be prepared and filed for review by public and review agencies. Projects generally include the construction of new facilities and major expansions to existing facilities.

2.2 Planning Process

There are five key elements in the Class EA planning process. These include:

1. Phase 1 – Identification of problem (deficiency) or opportunity;
2. Phase 2 – Identification of alternative solutions to address the problem or opportunity. Public and review agency contact is mandatory during this phase and input received along with information on the existing environment is used to establish the preferred solution. It is at this point that the appropriate Schedule (B or C) is chosen for the undertaking. If Schedule B is chosen, the process and decisions are then documented in a Project File. Schedule C projects proceed through the following Phases;
3. Phase 3 – Examination of alternative methods of implementing the preferred solution established in Phase 2. This decision is based on the existing environment, public and review agency input, anticipated environmental effects and methods of minimizing negative effects and maximizing positive effects;
4. Phase 4 – Preparation of an Environmental Study Report summarizing the rationale, planning, design, and consultation process of the project through Phases 1-3. The ESR is then to be made available to agencies and the public for review; and
5. Phase 5 – Completion of contract drawings and documents. Construction and operation to proceed. Construction to be monitored for adherence to environmental provisions and commitments. Monitoring during operation may be necessary if there are special conditions.

The overall process is shown in Figure 2.1.

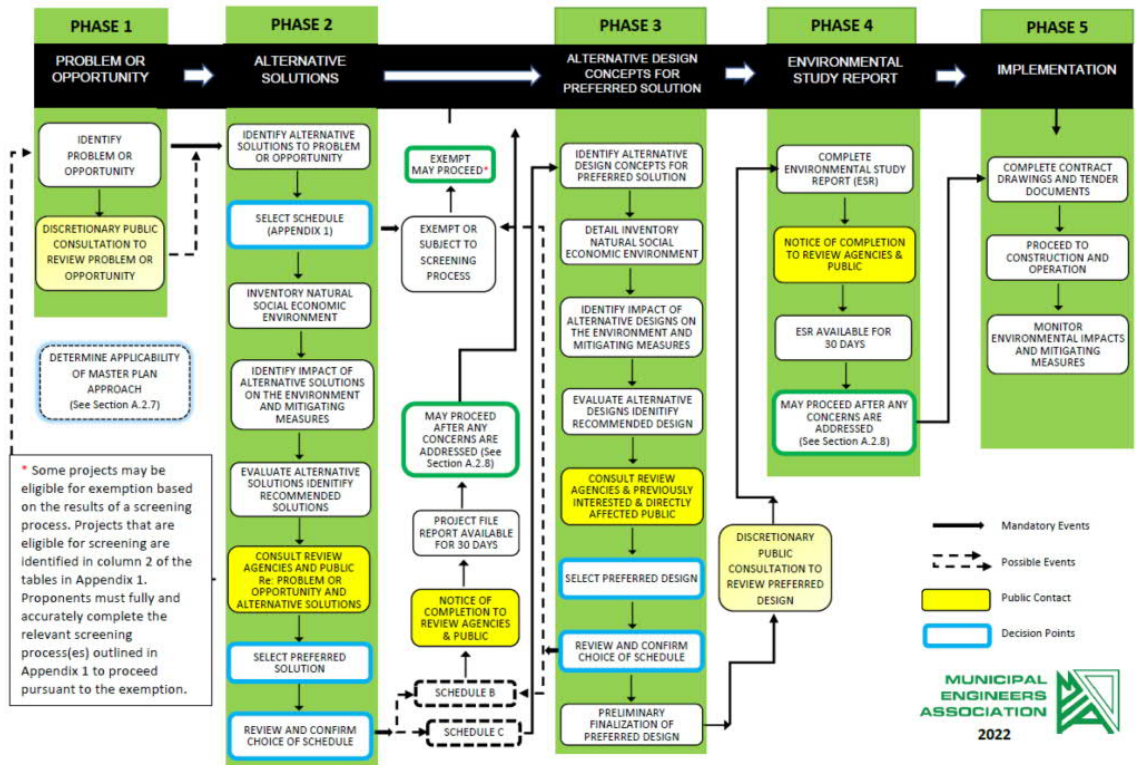


Figure 2.1 – Municipal Class EA Planning and Design Process

2.3 Project Category

Under the current Class EA Document, this project is considered to be a Schedule B activity under SEWAGE SYSTEMS – MAINTENANCE, OPERATION, DISTRIBUTION, STORAGE & RETIREMENT Projects:

“24d Construct new pumping station where the facility is not located in or adjacent to an environmentally sensitive natural area, residential or other sensitive land use, or on land with cultural heritage or archaeological potential.”

Under this schedule, the project is completed at the conclusion of Phases 1 and 2 of the Class EA process.

2.4 Section 16 Order Requests

Anyone with concerns related to any aspect of the study may express such concerns in writing to the Project Manager at the Chatham-Kent PUC within the 30-calendar day review period following the Notice of Study Completion. All comments and concerns should be sent directly to Project Manager at the Chatham-Kent PUC .

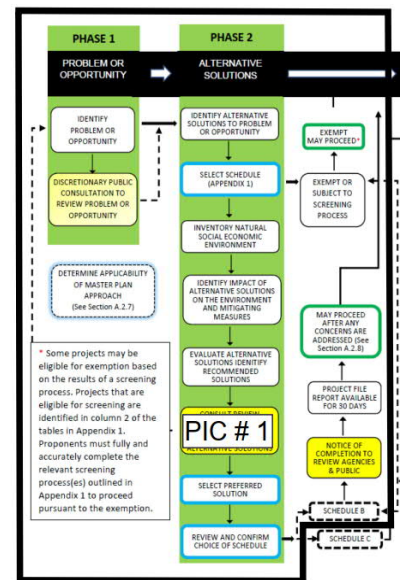


Figure 2.2 – Class EA Process (highlighted) followed by this Project

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/ comprehensive EA approval before being able to proceed), or that conditions be imposed (e.g. require further studies), **only on the grounds that the requested order may prevent, mitigate, or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights**. Requests on other grounds will not be considered. Requests should include the requester contact information and full name for the ministry.

Requests should specify what kind of order is being requested (request for additional conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate, or remedy those potential adverse impacts, and any information in support of the statements in the request. This will ensure that the ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

Minister of the Environment, Conservation and Parks
Ministry of Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and

Director, Environmental Assessment Branch
Ministry of Environment, Conservation and Parks
135 St. Clair Ave. W, 1st Floor
Toronto ON, M4V 1P5
EABDirector@ontario.ca

Requests should also be sent to the Chatham-Kent PUC by mail or by e-mail.

2.5 Provincial Land-Use Planning Objectives

Section C1.1.1 Land-Use Planning Objectives of the MCEA states:

“Land-use planning objectives refer to the plans and policies identified in provincial plans and municipal Official Plans and Secondary Plans. At a provincial level, key policies/plans include the Provincial Policy Statement (PPS), the Places to Grow Act, 2005 and associated Growth Plan(s)...

The Planning Act requires that municipal Official Plans contain “goals, objectives, and policies established primarily to manage and direct physical change and the effects on the social, economic, and natural environment”. The Planning Act prescribes a rigorous process by which Official Plans are to be developed and periodically reviewed, including opportunities for extensive public consultation. Once in place, Official Plans are legal documents, and therefore, provide the specific municipal policies and objectives that need to be considered including, but not limited to, those for: urban areas, growth areas/corridors, rural areas, neighbourhoods and residential areas, employment areas, transit and transit-supportive development, commercial, institutional, recreational, natural, open space, agricultural, and special policy areas.”

The intent of this project is to provide for municipal wastewater servicing for those current portions of the Study Area which have been designated for development by the Municipality’s Official Plan. Additionally, the servicing plan is intended to provide the Municipality with the future flexibility to service additional lands within the Study Area if and when they are designated for growth as per the requirements of the PPS.

2.6 Problem/Opportunity Statement

In letters sent to agencies, stakeholders and the public, the following was included which defines the project problem/opportunity statement:

“The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the construction of Sanitary System and Pump Station 14 in South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water, collection, and treatment of sewage in the Municipality of Chatham-Kent.

This MCEA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham’s sewage collection system.”

The consultation process is an integral component of the Municipal Class EA process. Effective communication with Aboriginal communities, agencies, stakeholders, and the public can reduce or avoid controversy that can ultimately lead to project delays and general discontent of project stakeholders. RVA, in consultation with Municipality staff identified stakeholders, agencies and Aboriginal communities that may have an interest in the study, the methods of contact, and the timing of contact for this project. This section details the consultation process followed by this Class EA. [Appendix 1.1](#) contains the public notices that have been filed as part of this process.

2.7 Notices

The Notice of Study Commencement was published on the ‘Lets Talk’ Chatham Kent (<https://www.letstalkchatham-kent.ca/>) project page at the following address:

<https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

The Notice of Completion was sent out to agencies and interested parties by mail and email informing them that the Class EA was being undertaken. Copies of the notices are included in [Appendix 1.1](#).

2.8 Stakeholder Consultation

Potential stakeholders included but were not limited to:

- Public – This includes individual members of the public including property owners who may be affected by the project, individual citizens who may have a general interest in the project, special interest groups, community representatives, and developers;
- Review agencies – This includes government agencies who represent the policy positions of their respective departments, ministries, authorities, or agencies; and
- The Municipality of Chatham- Kent’s internal departments.

Members of the public were notified of project commencement and invited to attend Public Information Centres (PICs) by way of notices published in a local area newspaper.

A list of relevant agencies and the appropriate contact person was developed at the onset of the project. Throughout the process, these contacts were sent letters notifying them of the project progress. [Appendix 1.2](#) contains the contact list developed for this project. [Appendix 1.3](#) contains responses from both the public and agencies.

2.9 Aboriginal Consultation

Based on discussions and recommendations provided by the Ministry of Environment and Conservation of Parks (MECP) regional office, RVA on behalf of the CK PUC confirmed Aboriginal communities and in addition contacted Aboriginal Affairs and Northern Development Canada (AANDC) and the Ministry of Aboriginal Affairs (MAA) separately from the general notifications sent to review agencies. The purpose of the contact was to request which, if any, Aboriginal communities may be affected by the project alternatives. The additional information may result from existing claims not readily available to the public. Information provided ensures the appropriate communities have been included in the contact lists for the duration of the Class EA project. These government agencies were not included in general notifications. The Aboriginal agency contact letters are in [Appendix 1.2](#). Contact was made with the following Aboriginal groups:

- Aamjiwnaang First Nation;
- Bkejwanong First Nation (Walpole Island);
- Caldwell First Nation;
- Chippewas of the Thames First Nation;
- "Eelūnaapéewi Lahkéewit (Delaware Nation at Moraviantown)";
- Haudenosaunee Confederacy Chiefs Council;
- Kettle and Stony Point First Nation;
- Metis Nation of Ontario;
- Mississaugas of the Credit First Nation;
- Munsee-Delaware Nation;
- Oneida Nation of the Thames; and
- Six Nations of the Grand River.

Responses were received and reviewed from Aamjiwnaang First Nation and Caldwell First Nation. These are found in [Appendix 1.3](#).

2.10 Public Information Meeting

Public Information Centres are a method to communicate with the public, interested parties and review agencies. For this project one PIC was held to present the Problem and Opportunity Statement, background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline. This was in the form of a pre-recorded online PIC. This PIC materials were available starting on June 29, 2022, and are to remain available until the completion of the study. Stakeholders were given until July 27th to provide comments. Access to the PIC materials was available through 'Lets Talk' Chatham Kent (<https://www.letstalkchatham-kent.ca/>) project page at the following address:

<https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

The notices of the PIC are provided in [Appendix 1.3](#) presentation handout and the power point for the comments are in [Appendix 1.4](#). Comments received are attached as are any comments received in [Appendix 1.5](#).

3.0 EXISTING CONDITIONS

3.1 Social/Environmental

3.1.1 Existing Land Use

The Municipality's Comprehensive Zoning By-Law was reviewed to confirm the current zoning of lands within the Study Area ([Chatham-Kent Zoning Information](#)). These zoning of the Study area is shown in Figure 3.1.

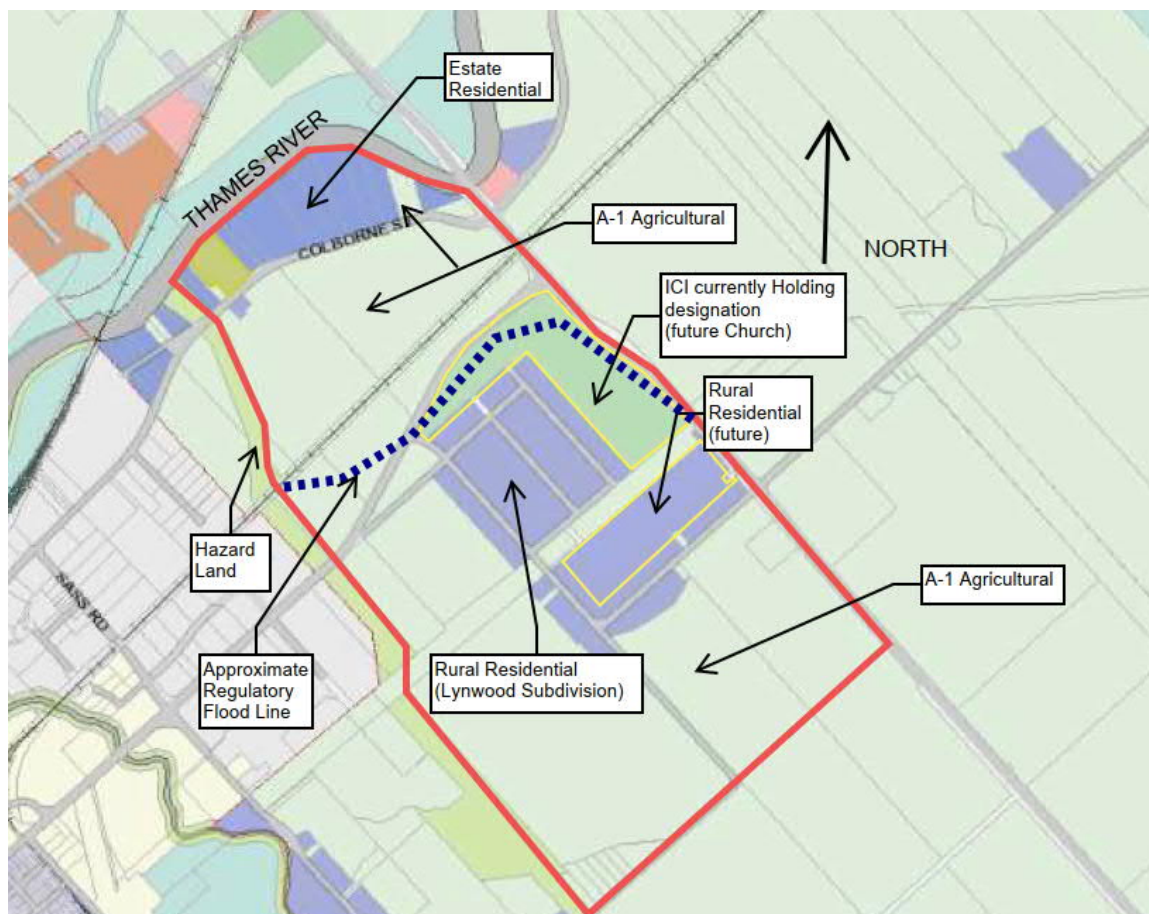


Figure 3.1 – Existing Land Use of the Study Area

Table 3.1 summarizes the current land use as shown in Figure 3.1.

Table 3.1 – Current Land Use

Zoning	Description	Area
Estate Residential	Existing lots along Thames River	25.9
Residential	Existing Lynwood Subdivision	35.3
Rural Residential	South of Lynwood, not developed	9.3
Industrial/Commercial (ICI)	West of existing Lynwood Subdivision (could allow residential development)	17.4
Agricultural	Remainder of Area	150.0
Total		237.9

3.1.2 Natural Environment

A review was made of the and the Municipality of Chatham-Kent Schedule of Natural Heritage & Hazard Features, Map C4 Community of Harwich Township, January 11, 2015 indicates that there are there are Significant Woodlands located by the river in the northern part of the project area. However, in the portions of the study area outside of the Flood Prone areas where it is likely a pumping station would be located proximate to anticipated 20-year development, there no critical environmental resources in the Study Area such as Significant Woodlands, Provincial or Locally Significant Wetlands or Areas of Natural or Scientific Interest (ANSI). This would indicate that development of a pumping station site can proceed based on the standard site plan and environmental protection requirements within the municipality. Figure 3.2 shows the Study Area and the absence of these features.

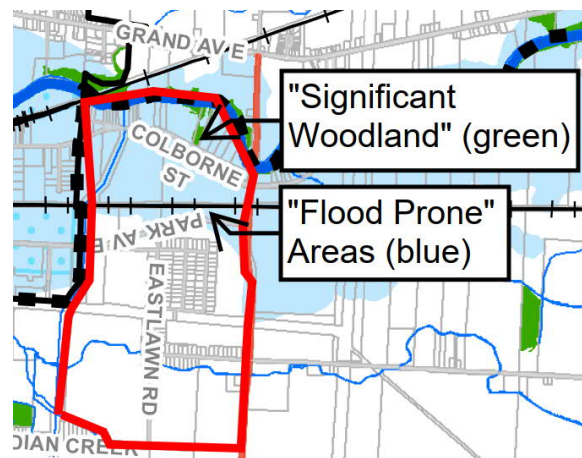


Figure 3.2 – Natural Environmental Map of Study Area

Lower Thames Valley Conservation Authority (LTVCA)'s *Lower Thames Valley Watershed Report Card 2023* provided the following information regarding the general study area. Using Conservation Ontario guidelines and standards developed by Conservation Authorities and their partners, the LTVCA ranked groundwater quality, surface water quality, forest conditions and wetland conditions by the following grading:

- A Excellent;
- B Good;
- C Fair;
- D Poor;
- F Very Poor; and
- Insufficient Data.

Table 3.2 shows the ranking of the general conditions of the area of the Study Area is located.

Table 3.2 – Watershed Report Card Summary

Area	Groundwater Quality	Surface Water Quality	Forest Conditions	Wetland Conditions
Overall LTVCA Score	B	D	D	F
Study Area Score	A	D	F	F

Figure 3.3 shows the surface water quality map that was prepared by LTVCA for this report. Other surface water features that were noted in the study area were the municipal drains which are shown in Figure 3.4.

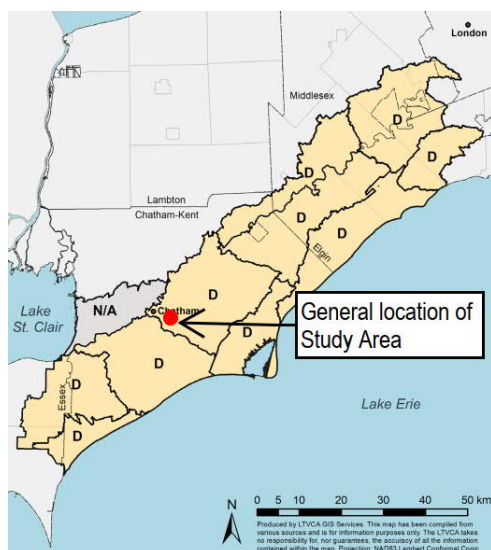


Figure 3.3 – LTVCA 2023 Surface Water Quality Report

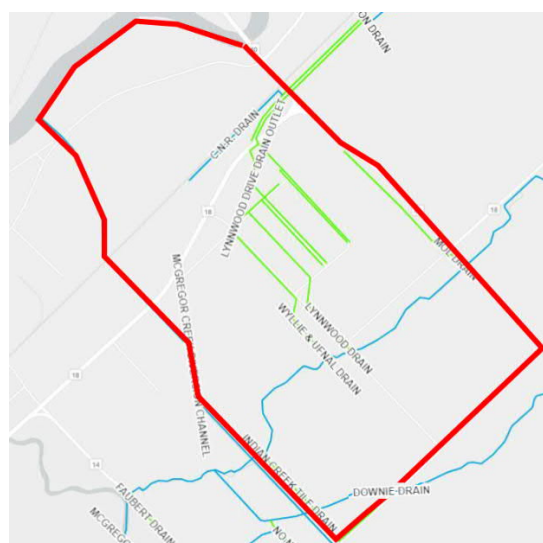


Figure 3.4 – Existing Municipal Drains within the Study Area

3.1.3 Archaeological/Cultural Environment

A review was made of the Municipality's Heritage Conservation website ([Heritage Conservation \(chatham-kent.ca\)](https://www.chatham-kent.ca/heritage)). Based upon reviewing the Listed Properties in the Community of Harwich on this website, there were no historic properties found to be within the Study Area.

Once either one site or a shortlist of sites for Pumping Station 14 are identified, a Stage 1 and 2 Archaeological Assessment can be undertaken to confirm the presence or absence of archaeological resources in accordance with current regulation and practices.

3.1.4 Regulatory Flood Plain

The general location of the Regulated Area was noted in Figure 3.1. The potential location for Pumping Station 14 should consider the proximity to this area in terms of approval requirements and flood protection.

3.1.5 Source Water Protection

Under the MECP 2006 Clean Water Act, municipalities are required to conform to Source Protection Plans (SPPs) to protect surface and groundwater sources to municipal drinking water systems. The study area for this project is under the jurisdiction of the Thames-Sydenham and Region Source Protection Plan (SPR). The SPR identifies where there is potential for significant threat to the quality and quantity of groundwater through delineation of Wellhead Protection Areas (WHPAs), Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), and Intake Protection Zones (IPZs).

Per the *Lower Thames Valley Source Protection Area Thames-Sydenham and Region Source Protection Committee Updated Assessment Report Revised January 2020*, the study area is within vulnerable aquifer and a significant groundwater recharge area (which extends through most of the Community of Chatham). No wellhead protection areas or intake protection zones were identified. Sanitary sewer systems (not combined sewers), sewage pumping station and road construction are not considered a prescribed drinking water threat under O. Reg. 287/07 under the Clean Water Act,

2006, however construction activities should be assessed for potential adverse impacts/drinking water threats and policy applicability.

3.1.6 Geotechnical Conditions

As part of this project a geotechnical investigation was undertaken by EXP Services Inc. on behalf of RVA that was completed in February 2023. Figure 3.5 shows the location of boreholes that were placed in area of Glenmar Ave and East Lawn Road. The general soil conditions findings are summarized below.

Fill was encountered below the granular fill at Boreholes BH4, BH5, and BH6. The fill was noted to be black sandy silt, having some organics, in a loose (visual and tactile observations) and moist (in-situ moisture content of 11 to 21 percent) condition. The fill extended to depths of about 0.8 to 1.0 m bgs.

Underlying the granular fill/fill in Boreholes BH3 to BH6, brown, weathered, silty sand/sandy silt having trace to some clay was encountered. Some wet sand layering was observed near 1.5 m bgs in BH3 and BH4. The silty sand is very loose to compact in compactness condition. In-situ moisture contents varied from 8 to 26 percent, indicating moist to wet conditions. The silty sand extended to depths of about 2.3 to 2.9 m bgs.

Underneath the silty sand/sandy silt layers, all Boreholes encountered clayey silt/silty clay stratum that extended to depths of about 8.4 to 10.8 m bgs. In general, the clayey silt/silty clay was noted to be brown to grey, having traces of sand and traces of gravel. Generally, the consistency of the clayey silt/silty clay is very soft to stiff,. The in-situ moisture content varied from 17 to 47 percent, indicating moist to very moist conditions.

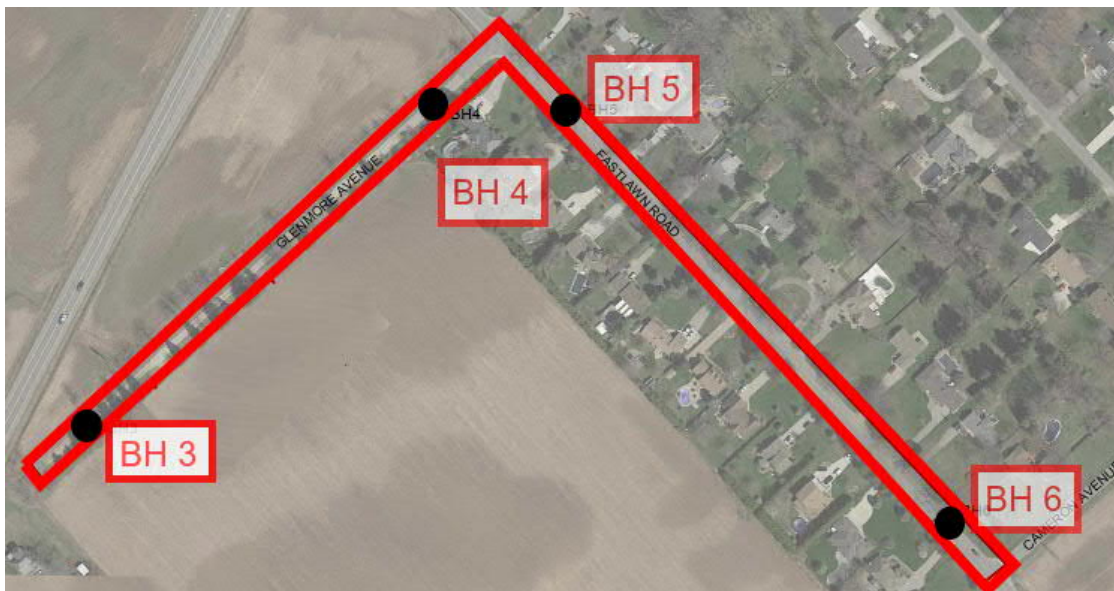


Figure 3.5 – Geotechnical Information Within the Study Area

Boreholes BH3, BH4, and BH5 terminated in clayey silt till. In general, the till is grey in colour and contains traces of sand. The till is stiff to very stiff in consistency). The in-situ moisture contents varied from 13 to 21 percent, indicating moist conditions. BH6 terminated in sandy silt/silt till stratum. The till was noted to be grey having some sand, trace clay and trace gravel. The testing, indicate a very dense compactness condition. Laboratory testing revealed in-situ moisture contents of 9 to 16 percent, indicative of damp to moist conditions.

Based upon this limited review, the soil in the vicinity of where Pumping Station 14 could be located are very soft and saturated at a depth of approximately 10 m below grade. This should be considered when the location and configuration of the sewage collection system is developed as there may be some merit in looking at more than one pumping station. Having only one pumping station for this area may result in very deep inlet sewers (greater than 8 m below grade) and pumping station wet wells of around 10 to 12 m in depth.

3.2 Existing Infrastructure in Project Area

3.2.1 Water Supply

It appears from our review of records that there is municipal water service provided to the Study Area as shown in Figure 3.6. There is a 200 mm watermain loop through the Study Area. In addition to the municipal water supply there appear to be many private wells within the study area. The private well location as found on the province's drinking water site (<https://www.ontario.ca/page/map-well-records>) are shown in Figure 3.7.

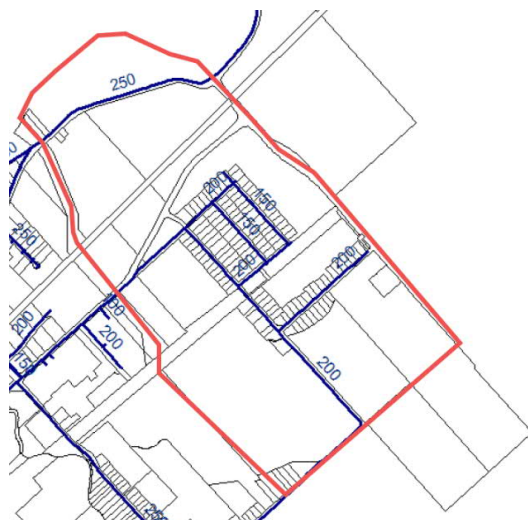


Figure 3.6 – Municipal Water Servicing

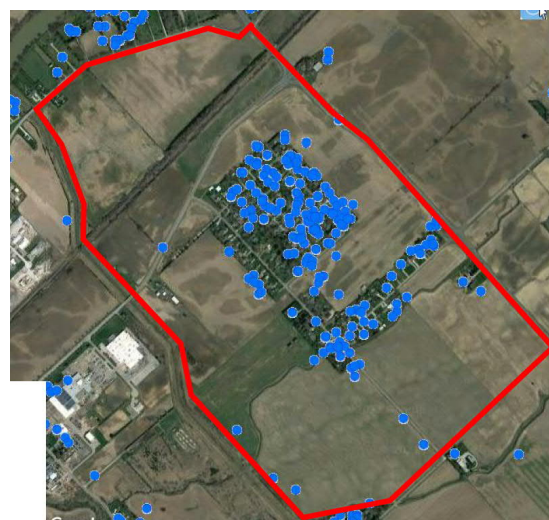


Figure 3.7 – Private Wells

3.2.2 Sanitary Servicing

There are two Pumping Stations that will influence sanitary servicing in the Study Area. Pumping Station 21 (formerly 20) services an urban drainage area north of the Thames River along Longwoods Road and conveys flows via a 250 mm/200 mm forcemain to Pumping Station 9 which is on Park Avenue East to the east of McGregor Creek. Figure 3.8 shows the forcemain route through the Study Area. Pumping Station 9 will be the outlet that provides connection of the Study Area to the Chatham sanitary collection System. Table 3.3 provides information on the Pumping Stations 9 and 21 as described in the *Municipality of Chatham-Kent Water and Wastewater Master Plan Addendum Report (Final)*, 2018.

Table 3.3 – Capacities of Perimeter Pumping Stations (from Table 4-2 of the 2018 Master Plan)

PS #	Address	Firm Capacity (L/s)	# Pumps	Type	Year Built	Last Upgrade	Pump Type
9	529 Park Avenue East @ McGregor Creek	95.0	2 (1 duty, 1 standby)	Prefab.	1965	n/a	Smith @ Loveless 324-12969-00 8C4

PS #	Address	Firm Capacity (L/s)	# Pumps	Type	Year Built	Last Upgrade	Pump Type
21	23140 Communications Road	27.6 *	2 (1 duty, 1 standby)	Cast in Place	2006	n/a	ITT Flygt 3102-090-1806

* this is the total capacity, not firm

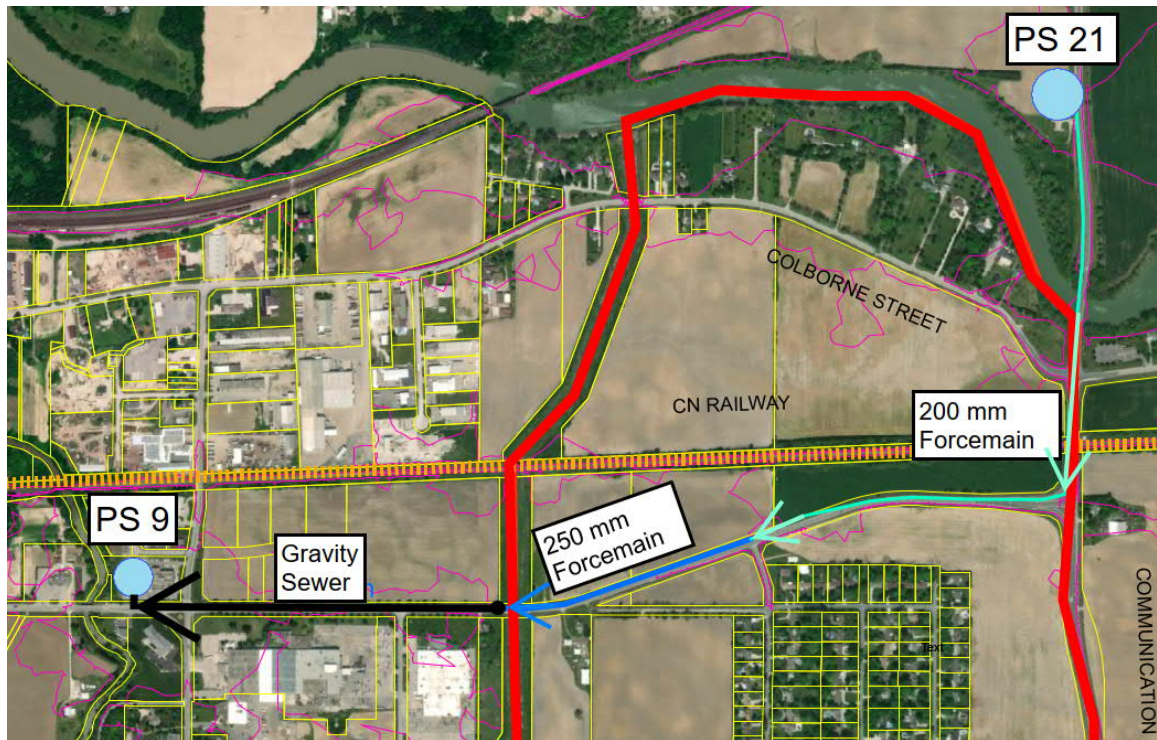


Figure 3.8 – Forcemain Route from PS 21 Through Study Area

3.2.3 Stormwater Management and Municipal Drains

From our review of background data, there appear to be no stormwater management facilities within the Study Area.

3.2.4 Review of Background Reports

Our review of background information indicates that at present, there is no municipal sanitary servicing of properties within the Study Area. There are no additional servicing requirements for the Study Area other than those stated within the term of reference for this project that are found in the *Municipality of Chatham-Kent Water and Wastewater Master Plan Addendum Report (Final), June 2018* (Dillon).

It is noted that the report titled *Sanitary Sewer Design Review and Analysis Park Avenue East Pump Station No. 9 Area Municipality of Chatham-Kent, May 25, 1998* (Thames Valley Engineering) assumed PS 9A (now PS 14) would have a capacity of 81 L/s.

Regarding Pumping Station 21, Table 3.4 of *Sewage Pumping Station 20 - Communication Road Design Brief* (Todgham & Case Associates Inc./TSH, 2004) provided the following current and future sewage flows shown in Table 2.2 of their report.

Table 3.4 – Pumping Station 21 Flows

Condition	Area (ha)	Population	Peak Flow (L/s)
First Phase	88	1,149	28.5
Intermediate	201	5,330	81
Ultimate	274	8,031	145

In Table 4.1 from the Todgham & Case Associates Inc./TSH, 2004 report modelled the capacity of forcemain to send flows to PS 9. This is summarized in Table 3.5 below.

Table 3.5 – Pumping Stations 21 and 14 2004 Flow Capacity Estimate

Condition	Flows (L/s)	
	Pumping Station 20 (now 21)	Pumping Station 9A (now 14)
Only One Station in Operation	28.5	81
Both Stations Operating Simultaneously with 250 mm Forcemain Under Diversion Channel	25.6	66.5
Both Stations Operating Simultaneously with 200 mm Forcemain Under Diversion Channel	29.7	36.8

The following should be noted:

- Pumping Station 9's capacity is 95 L/s;
- Future flows from Pumping Station 21 were estimated at 145 L/s in the Todgham & Case Associates Inc./TSH, 2004 report; and
- Should Pumping Station 21 be expanded from its current capacity of 28.5 L/s, the following is recommended
 - The design flows for Pumping Station 14 be updated to the design horizon of the shared 250 mm forcemain;
 - The adequacy of the 200 mm portion of the forcemain from Pumping Station 21 to the east of the intersection of Park Avenue and Eastlawn Drive be reviewed;
 - Options to consider at this time would include upsizing of one or both forcemains or twinning one or both forcemains.

Additionally, the current capacity of Pumping Station 9 and the current flows and anticipated total growth in demand (in addition to that from the Pumping Station 14 and 21 catchment areas) should be reviewed by the PUC to confirm when a trigger point for future expansion for PS 9 will be reached.

4.0 FLOW PROJECTIONS FOR 20-YEAR AND BUILD OUT

4.1 Population Projections

The 2021 Ontario Population Projections (<https://data.ontario.ca/dataset/population-projections>) website assumes that the 2021 Chatham Kent population is at 106,632 and by 2046 this will grow to 111,712. This represents an annual rate of growth of approximately 0.17%. This is a net growth of 5,092 in population. As this is a growth rate for the entire municipality it does not reflect the typical situation where population in the rural areas tends to move into urban areas such as Chatham. *The Municipal Comprehensive Review Municipality of Chatham-Kent Final Draft Report* (Watson and Associates, 2019) in Table E 1A predicts that the Chatham urban area will add an additional population of 3,225 between 2021 and 2046.

Neither of these studies reflect any changes in population growth patterns due to COVID-19 and at this time it is not certain what the long-term impacts of the requirement to work at home and in some cases to leave larger urban centres will have on Chatham-Kent's population.

4.2 Existing Chatham-Kent Zoning Map

Based on our review of the current zoning and discussions with the PUC, "low flow" and "high flow" scenarios were identified for development in the 20-year planning horizon. These areas are shown in Figure 4.1. The Area show as E is the existing Lynnwood subdivision. The potential areas for development within the Study area are shown in Figure 4.2.

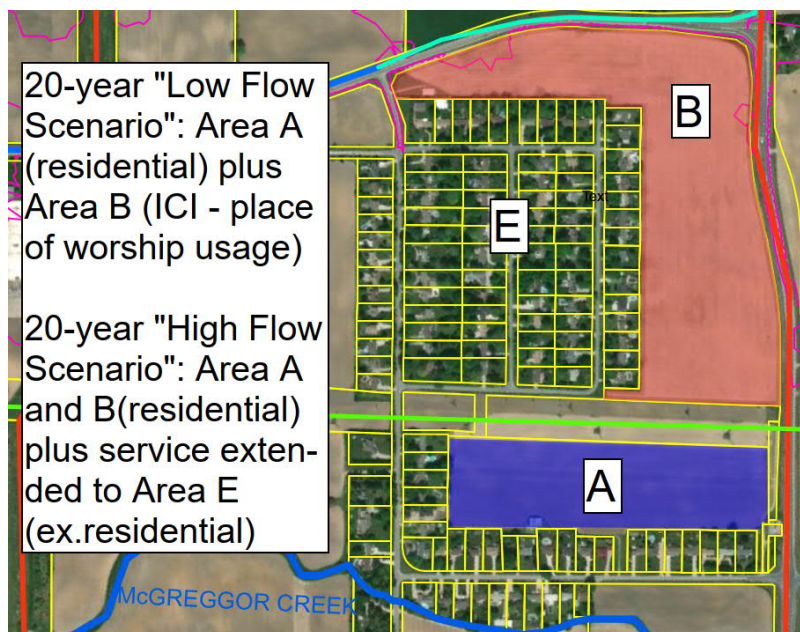


Figure 4.1 – Anticipated 20-year Development

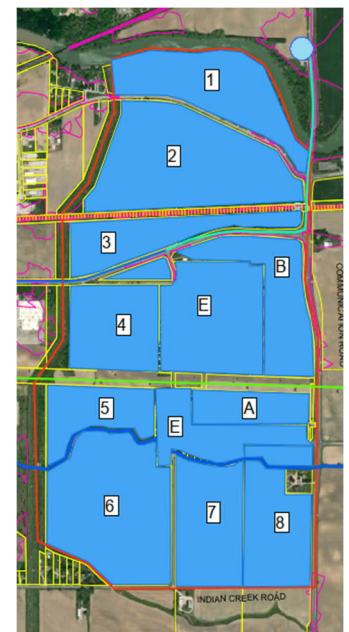


Figure 4.2 – Potential Areas for Development

4.2.1 20-year Flows

Table 4.1 shows the "low flow" scenario for the 20-year flows to the Chatham sewer system, based on the 2018 Wastewater Master Plan "Sewer Design Criteria" (Table 1-2). Area A was defined as residential with a population density 37 people/ha and Area B was defined as Industrial Commercial institutional (ICI). Infiltration rate was assumed to be 0.1 l/s/ha per PUC Standards. It is our opinion that the Area B flow appears to be overstated using this method and therefore, flow rates in the

Ontario Building Code (OBC) were used to provide a more representative flow number. This is shown in Table 4.1 and the flow rate of 11.3 L/s is assumed to be the 20-year flow for the study area.

[Appendix 2](#) contains more detailed calculations.

Table 4.1 – 20-year Flow Projections (low demand)

Catchment	Area (ha)	Pop	Flow (L/s)	Peaking Factor	Peak Flow (L/s)	Infiltr. (L/s)	Total (L/s)
Area A	9.23	342	1.3	4.1	5.5	0.9	6.4
Area B ¹	17.37	0	0.4	3.0	1.3	1.7	3.0
Total							9.4
+20% Factor of safety							11.3
1- Per OBC Table 8.2.1.3.B daily flows assuming church with kitchen facilities and a capacity of 1000 seats							

Table 4.2 shows the “high flow” scenario for the 20-year flows to the Chatham sewer system, based on the 2018 Wastewater Master Plan “Sewer Design Criteria” (Table 1-2). Both Areas A and B (which can be allowed to proceed with residential development) will have a residential with a population density 37 people/ha and an infiltration rate was assumed to be 0.1 l/s/ha per PUC Standards. Additionally, if approved by the Municipality and PUC, the existing area A could be connected subject to appropriate consultation. [Appendix 2](#) contains more detailed calculations.

Table 4.2 – 20-year Flow Projections (high demand)

Catchment	Area (ha)	Pop	Flow (L/s)	Peaking Factor	Peak Flow (L/s)	Infiltr. (L/s)	Total (L/s)
Area A	9.23	342	1.3	4.1	5.5	0.9	6.4
Area B (residential)	17.37	643	2.5	3.92	9.9	1.7	11.7
Area E	12.50	438	1.7	4.00	6.9	1.3	8.2
Total							26.2
+20% Factor of safety							31.4

4.2.2 Ultimate Flows

Figure 4.2 shows the division of the study area into discrete catchments for the purpose of review. The potential 20-year areas previously discussed. Area 1 represents the existing residential lots along the river. The remainder of the parcels (2 – 8) are the areas presently designated as agricultural.

While ultimate development cannot be known for this study area at this time, we have made the following assumptions that ultimate development will include:

- Area A;
- Area B (assumed residential);
- Area E; and
- Areas 1 – 8 (all residential).

This will provide an ultimate flow of approximately 118.3 L/s. If 50% of Areas 1 to 8 were developed, then we would estimate a sanitary flow to PS 14 of 74.7 L/s (with a 10% contingency). The flow calculations are detailed in [Appendix 2](#) and summarized in Table 4.2.

As part of the implementation of this project, the exact flows will be confirmed for PS 14. Given the population projections for Chatham Kent, it is recommended that the ultimate flow to PS 14 be 74.7 L/s.

Table 4.3 – Ultimate Flow with Full Development

Catchment	Area (ha)	Pop.	ADF (L/s)	PF	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
20-year “High Flow Scenario”	39.1	1,422	5.6	3.7	20.7	3.9	26.2
Assume 50% of Remaining Area	88.0	2,803	11.1	3.5	38.3	1.8	40.1
Total	127.1	4,225	16.7	3.3	55.2	12.7	67.9
10% Contingency on Flow Calculation							74.7

4.3 Property Requirement for PS 14 and Location

Based on projected ultimate flow for PS 14, the following approximate dimensions are provided:

- Depth from Road Right of Way – 45 m;
- Length parallel to Road Right of Way – 45 m; and
- Total area 2025 m²(0.50 acres).
- These dimensions would allow:
- An access road into PS 14;
- Space for two 7.5 m diameter wet wells (actual size and number to be determined);
- Space for a 10m by 10 m footprint for a storage tank;
- Provision for odour control if required;
- Sufficient room to place a backup generator and a small control building; and
- Flexibility for future expansion and to reduce noise impact on existing and future residential development.

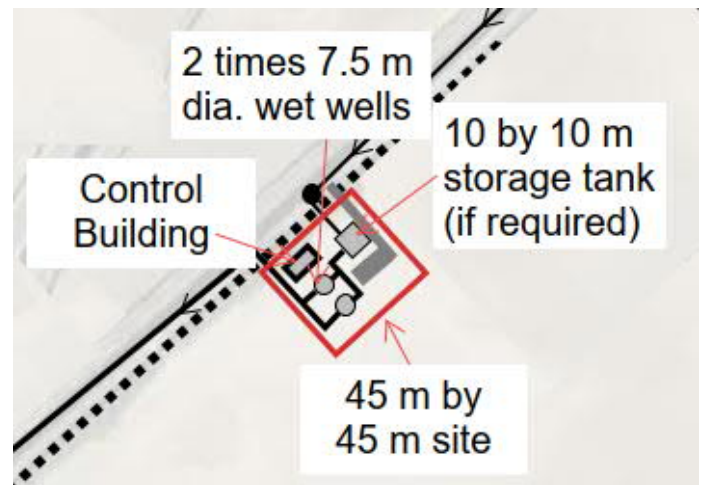


Figure 4.3 – Conceptual Layout of PS 14

Figure 4.3 shows the conceptual layout of PS 14 sized for ultimate flow. Given the fact that where and when development in the Study Area will occur post 20-year, the exact location of PS 14 cannot be confirmed at this time. Additionally, the size and location of trunk sewers, intermediate pumping stations and forcemains cannot be stated at present.

5.0 SERVICING OPTIONS

5.1 Introduction

As part of the planning process, we have developed the following list of initial servicing alternatives. These alternatives are:

- Alternative 1 – Do Nothing option – Development based on on-site systems;
- Alternative 2 - Private/Development Level Solution;
- Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A; and
- Alternative 4 - Gravity Sewer Connection to Pumping Station 14.

These are described in the following subsections. While developing and reviewing the alternatives, it has been assumed at present that the location of Pumping Station 14 will be in the vicinity of Park Ave East, Glenmar Ave and East Lawn Road as shown in Figure 5.1.

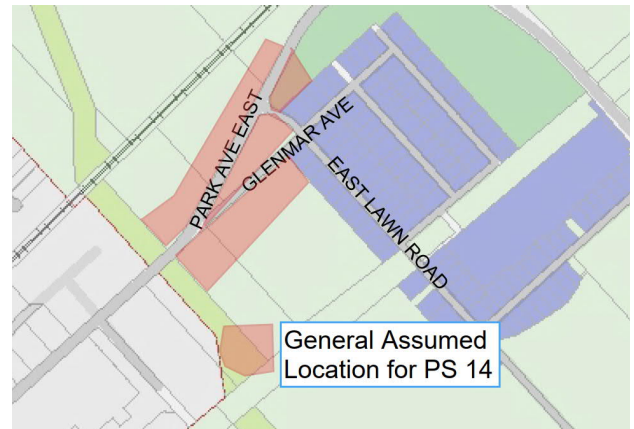


Figure 5.1 – Assumed Location for PS 14

5.2 Alternative 1 - Do Nothing Option – Development Based on On-site Systems

The “Do Nothing” alternative represents what would occur if none of the alternative solutions were implemented. This provides a baseline for evaluating alternative solutions and is a requirement of the Class EA process. This alternative would involve not undertaking municipal sanitary servicing for future development. This option requires landowners to provide on site servicing with future allowance for hookup. This option does not address the problem statement and will result in the requirement for larger residential lots and a smaller number of lots per development.

5.3 Alternative 2 - Private/Development Level Solution

This alternative consists of letting the developer of Area A undertake construction of the interim pumping station in Area A. This would include building a forcemain running along Cameron/Eastlawn/Glenmar then connecting to the existing PS 21 forcemain. This would mean that the developer would pay for the costs for this system which would be constructed to the CK PUC standards and operated by the CK PUC. It would also require the new pumping station to run alternate pumping cycles with the existing PS 21.

Flows from Area B could either be brought into the new Pumping Station or else could be serviced by an on-site sewage system. The privately constructed Pumping Station would have to be constructed to the current CK PUC standards including the provision of backup power and odour control.

This option represents the lowest cost to the CK PUC over the next 20-year period, The other advantage is that it provides the flexibility for the CK PUC to decide at this stage whether or not to purchase property for a future PS 14 or to defer this until the overall development pattern of the Study Area is confirmed in the future. When servicing demand increases past the interim system capacity, The CK PUC will at some point have to develop trunk sewer and PS 14, so this infrastructure may represent a “throw away” cost.

This alternative is shown in Figure 5.2.

5.4 Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A

This is the same configuration as Alternative 2 except that the new Pumping Station and forcemain are constructed by the CK PUC. Flows from Area B could either be brought into the new Pumping Station or else could be serviced by an on-site sewage system. This option fulfilled the obligation of the CK PUC to provide sanitary servicing to the areas that are anticipated to be developed over the next 20-years. When servicing demand increases past the interim system capacity, The CK PUC will at some point have to develop trunk sewer and PS 14, so this infrastructure may represent a “throw away” cost.

This alternative is shown in Figure 5.2.

5.5 Alternative 4 - Gravity Sewer Connection to Pumping Station 14

This alternative consists of having a gravity sewer running along Eastlawn Rd and Glenmar Ave then connecting to PS 14 as seen in Figure 5.3. Area B would connect by a gravity sewer from the western end of its property. PS 14 will connect to the existing PS 21 forcemain via a forcemain through a control chamber at the intersection of Park Ave East and Glenmar Ave.

The Infrastructure is sized as follows:

- Trunk sewer along Eastlawn Rd is sized for ultimate flow (anticipated to be in the order of 375 mm diameter subject to verification during detailed design) and will be sized for future flows from Areas E, 4, 5, 6, 7 and 8;

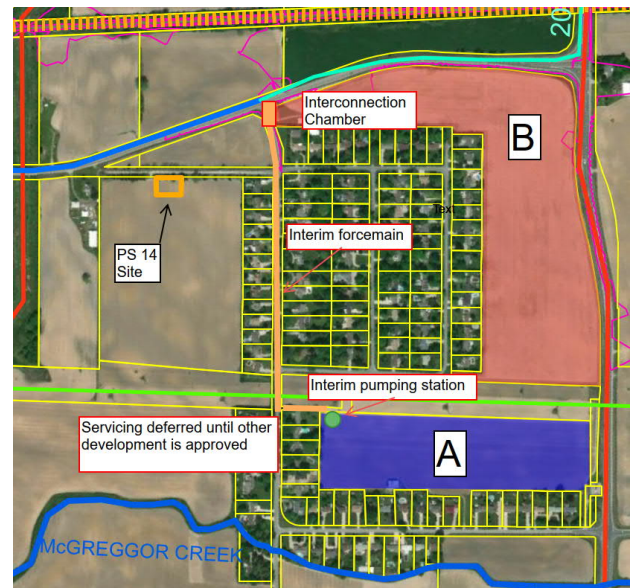


Figure 5.2 – Forcemain Connection Constructed by developer (Alternative 2) or by PUC (Alternative 3)

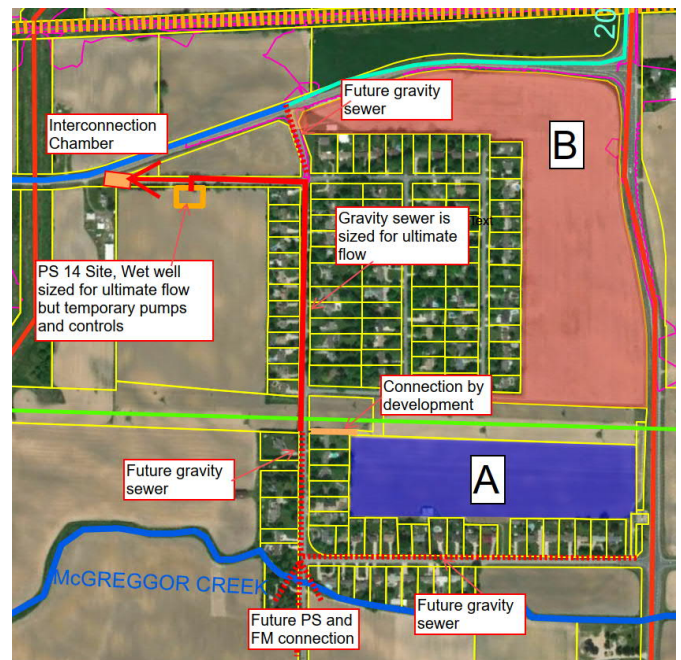


Figure 5.3 – Gravity Sewer Connection to PS 14 and PS 14 and Forcemain Construction (Alternative 4)

- Trunk sewer along Glenmar is sized for ultimate flow (anticipated to be in the order of 450 mm diameter subject to verification during detailed design) and will be sized for future flows from all parts of the Study Area;
- The wet wells of PS 14 will be sized for ultimate flow, but the initial pumps installed, and controls will be for the 20-year development projection of 11.3 L/s.

5.6 Shortlisting of Options

Table 5.1 which follows summarizes our review of the four options. Based upon the findings, we would recommend shortlisting the following options:

1. Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A; and
2. Alternative 4 - Gravity Sewer Connection.

Table 5.1– Alternative Solutions Advantages and Disadvantages

#	Name	Description	Advantages	Disadvantages	Ranking
1	Do Nothing	Do not provide any connections to CK collection system and have landowners provide on site servicing with future allowance for hookup	<ul style="list-style-type: none"> • Lowest cost/impact to CK collection system • Does not allow for overbuilding of infrastructure ahead of need 	<ul style="list-style-type: none"> • Does not address problem statement • Onsite systems in Area A will reduce number of development lots 	Not Shortlisted
2	Private/Development Level Solution	<ul style="list-style-type: none"> • Developer of Area A undertakes construction of interim pumping station in Area A to CK PUC standards • Forcemain running along Cameron/Eastlawn/Glenmar to existing PS 21 Forcemain • Option to now purchase site for future PS 14 • Area B does onsite sewage system 	<ul style="list-style-type: none"> • Development pays for upgrades • Infrastructure improvements are undertaken when definable need on a sustainable scale • Minimize potential for throw away costs for CK PUC 	<ul style="list-style-type: none"> • No capacity to expand the system • May not be a popular solution 	Not Shortlisted
3	Interim PS in Area A	<ul style="list-style-type: none"> • Sewer collection system to interim pumping station in Area A • Forcemain running along Cameron/Eastlawn/Glenmar to existing PS 21 Forcemain • Option to now purchase site for future PS 14 • Gravity connection from Area B to interim PS in Area A 	<ul style="list-style-type: none"> • Infrastructure improvements are undertaken when definable need on a sustainable scale • Minimize potential for throw away costs for CK PUC • CK PC has flexibility in future with regard to servicing study area depending on future pattern of growth (20 year +) 	<ul style="list-style-type: none"> • Limited capacity to expand the interim PS and the forcemain to service other areas • PS 14 location is set, and this may impact future flexibility depending on development • Most of costs may be throw away costs once Study Area more fully develops 	Shortlisted
4	Gravity Sewer to PS	<ul style="list-style-type: none"> • Trunk sewer along Eastlawn Rd is sized for ultimate flow with connections from Areas 1 and 2 • Trunk sewer along Glenmar is sized for ultimate flow • The wet wells of PS 14 will be sized for ultimate flow, but the initial pumps installed, and controls will be for the 20-year development protection 	<ul style="list-style-type: none"> • Gravity sewer can be sized for ultimate growth to south of Glenmar Avenue • Servicing requirements fulfilled from previous PUC/Municipality commitments • Minimize potential for throw away costs for CK PUC 	<ul style="list-style-type: none"> • Largest capital cost • Oversizing may not be needed for several decades • Maintenance effort to flush sewer until flows develop 	Shortlisted

5.7 Review of and Short-Listed Options

5.7.1 Evaluation Process

To review the short-listed options, we will review their potential cost. ASTM E 2516-11 (Standard Classification for Cost Estimate Classification System) provides a five-level classification system based on several characteristics, with the primary characteristic being the level of project definition (i.e., percentage of design completion). The ASTM standard, shown in Table 5.2, illustrates the typical accuracy ranges that may be associated with the general building industries.

Table 5.2 – ASTM E2516-11 Accuracy Range of Cost Opinions for General Building Industries

Cost Opinion Class	Expressed as % of Design Completion	Anticipated Accuracy Range as % of Actual Cost
5	0-2	-30 to +50
4	1-15	-20 to +30
3	10-40	-15 to +20
2	30-70	-10 to +15
1	50-100	-5 to +10

The cost estimates developed in this report would be best described as a Class 5 Cost Estimate which is typically used for high level study projects.

5.7.2 Cost Opinion Assumptions

The total cost estimate was prepared based on;

- Assumed prices from RVA experience for sanitary pumping station upgrades of similar size and scope;
- For sewers and forcemains, costing data was derived from Tables 5.2 and 5.3 of the City of London 2014 Wastewater Servicing DC Update Unit Rate Costs for Watermains (Revised March 2014) adjusted for inflation; and
- For construction 15% of the construction cost was estimated for planning and engineering costs.

5.8 Cost Opinion

Table 5.3 summarises the costs for Option 3 which will be the same as Option 2 except that the PUC would not bear the costs.

Table 5.3 – Cost Opinion for Option 3

Method	Cost
New Pumping Station at Area 4 (Capacity of 11.3 L/s)	\$1,850,000
Forcemain to Existing FM (150 mm dia. FM, run of 600 m)	\$439,200
Control Chamber (including but not limited to backflow protection and a motorized valve to control flows into existing 250 mm forcemain).	\$200,000
SUBTOTAL	\$2,489,200
PLANNING AND ENGINEERING (15%)	\$373,380
TOTAL OPTION 4	\$2,862,580
Variance (+50%)	\$4,293,870

Table 5.4 summarises the costs for Option 4.

Table 5.4 – Cost Opinion for Option 4

Method	Cost
Gravity Sewer (East Lawn – 375 mm dia. sewer, run of 480 m)	\$1,038,316
Gravity Sewer (Glenmar – 450 mm dia. sewer, run of 120 m)	\$238,128
Gravity Sewer (Area B– 150 mm dia. sewer, run of 100 m))	\$143,960
New Pumping Station (Capacity of 68.9 L/s- ultimate)	\$3,850,000
Forcemain to Existing FM (150 mm dia. FM, run of 150m)	\$433,710
Control Chamber Control Chamber (including but not limited to backflow protection and a motorized valve to control flows into existing 250 mm forcemain.	\$200,000
SUBTOTAL	\$5,904,114
PLANNING AND ENGINEERING (15%)	\$885,617
TOTAL OPTION 4	\$6,789,731
Variance (+50%)	\$10,184,597

[Appendix 3](#) provides additional detail on the cost opinions developed for Options 3 and 4.

5.9 Recommended Option

Based upon our review of the merits of this review, we would recommend that the CK PUC adopt Option 4, Gravity Sewer Connection to Pumping Station 14. This option has the following advantages:

- Meets CK PUC objective of providing municipal servicing to the Study Area; and
- Limits throw away costs as all major sewer components and pumping station (minus pumps, controls and possibly connecting forcemain) are part of the ultimate servicing of this area.

The PS would be sized for the ultimate flows anticipated but would include pumps and ancillary equipment for the 20-year phase. As there is some uncertainty as to the rate of development over this period, RVA is of the opinion that the CK PUC during the implementation phase of this project (i.e. design) can confirm if they wish to go with a design based on the 20-year “Low Flow” or “High Flow” Scenario as this will not materially change the project scope or intent.

6.0 POTENTIAL ENVIRONMENTAL IMPACTS, MITIGATION AND MONITORING

This section summarizes the key impacts associated with the implementation of the recommended solution(s) and general mitigation required. In addition to the mitigation measures identified in the report, additional work will be required to be completed following the Class EA, prior to construction. During detailed design, findings from the Class EA will be confirmed through additional investigations, planning and consultation with the public and technical agencies.

6.1 Transportation Environment

With the implementation of the recommended alternatives, minor disruption to the transportation environment will be caused. Construction will be staged in a way that at least one lane of traffic will be open as much of the time as possible on East Lawn Road. Due to the anticipated depths of sewer construction, there may be short durations of full closure required on East Lawn Road. The design will attempt traffic can be detoured in the short term via Cameron Ave, Lynwood Ave, and the western portion of Glenmar Ave. Due to the narrow road surface on Glenmar Av east of East Lawn, it is recommended that this portion of the road be closed to vehicle and pedestrian traffic during construction along it.

6.2 Socio-Economic Environment

The recommended works and necessary road closures or lane restrictions have the potential to impact local homeowners, area businesses (assumed to be mostly home based in the area) and commuters negatively, particularly those in the existing Lynwood subdivision. A communications plan and public notices in advance of the start of construction to minimize impacts to adjacent businesses along the corridor is recommended. To this end, every effort will be made to keep access and private entrances open during construction. The PUC and Contractor will work with the owners to ensure construction activities and schedules are identified well in advance of any disruption so that this information can be passed on. During the detail design phase of the study, the project team will meet with specific property owners to further discuss their concerns.

6.3 Property Requirements

As previously discussed, based on projected ultimate flow for PS 14, the following approximate dimensions were developed:

- Depth from Road Right of Way – 45 m;
- Length parallel to Road Right of Way – 45 m; and
- Total area 2225 m² (0.50 acres).

Property acquisition for the PS 14 site is required.

6.4 Noise and Air Quality Impacts During Construction

Although no long-term air quality impacts from the proposed works are anticipated, dust and/or emissions during construction have the potential to degrade air quality in the short term. Measures to minimize these impacts should include dust/debris control measures such as the application of water or non-chloride based compounds; covering of soil and other material storage piles to prevent wind erosion; and, covering of fine particulate materials during transportation to and from site. The Contractor should use new or well-maintained equipment and machinery, preferably ones fitted with fully functional emission control systems, mufflers, exhaust system baffles and/or engine covers.

Construction may also result in temporary noise impacts. Measures to minimize noise-related impacts during construction include:

- Limit construction to the time periods allowed by local noise control by-laws. If construction activities are required outside of these hours, the applicable permits/exemptions must be obtained through the municipality in advance.
- Maintain construction equipment in an operating condition that prevents unnecessary noise (muffling systems, secured components, lubrication of moving parts).
- Restrict idling equipment to the minimum necessary to perform the specified work.
- Investigate all noise complaints from the public to verify that the required noise control measures are in effect. Persistent complaints will require a contractor to comply with MECPC NPC-115 (Guidelines for noise effects from construction equipment). Subject to the results of a field investigation, alternative noise control measures may be required.

6.5 Natural Environmental

The following sections describe the impacts and mitigation measures developed to avoid or minimize the potential impacts to the natural environment associated with the proposed improvements. These measures should be considered and elaborated on, as required, during detailed design.

6.5.1 Soil Disturbance and Potential for Erosion

Soil disturbance within the study area will be limited mainly due to the highly urban nature of the area. Impacts resulting from any excavating or cut and fill operations will be temporary in nature. Erosion and sedimentation mitigation measures will be implemented prior to and during the construction phase.

A Sediment and Erosion Control Plan will be prepared during detail design. These control measures will include:

- Limiting the geographical extent and duration that soils are exposed to the elements;
- Implementing standard erosion and sedimentation control measures per Ontario Provincial Standard Specification (OPSS) 805 Construction Specification for Temporary Erosion and Sediment Control Measures. These standard measures include silt fence placed along the margins of areas of soil disturbance; applying conventional seed and mulch and/or erosion control blanket in areas of soil disturbance to provide adequate slope protection and long-term slope stabilization; and
- Managing surface water outside of work areas to prevent water from coming in contact with exposed soils.

Monitoring of these erosion and sedimentation control measures during and after construction will be implemented to ensure their effectiveness. These environmental measures will greatly reduce/minimize adverse environmental impacts.

6.5.2 Aquatic Habitats and Communities

Significant impacts to watercourses are not expected as part of the proposed improvements. However, there is the potential for effects associated with sediment laden run off from construction intruding into downstream aquatic environments. Therefore, an erosion and sediment control plan should be developed during detailed design to limit the impacts of sediment export as described above.

6.5.3 Groundwater and Surface Water Resources/Source Water Protection

The movement of water between groundwater and surface-water systems can lead to the mixing of their water qualities. High quantities of nutrients or other dissolved chemicals in surface water could be transferred to the connected groundwater system.

As part of detailed design, a review of the dewatering requirements for the placement of sewers and structures will review potential impacts and detail appropriate mitigation strategies in accordance with the provincial *Environmental Protection Act*.

There are no municipal water wells adjacent to the study area, however there are private wells. As such, it is recommended that a water well survey to obtain background information to any private wells within a 500 meter area is completed prior to construction to assist the PUC in case of any well complaint during construction, and that a monitoring and contingency plan is implemented for any well complaint during construction.

Should proactive dewatering be required during construction, a permit to take water (PTTW) will be obtained, and all required monitoring of groundwater impacts will be undertaken at that time.

6.5.4 Vegetation and Tree Impacts

Impacts to existing street trees in the study area were taken into consideration during the selection of the preferred solutions. The removal and/or relocation of some street trees on municipal property will be minimized as much as possible during design and construction.

6.5.5 Wildlife and Wildlife Habitat

Potential impacts to wildlife and their habitats during construction can occur through direct injury and habitat loss as well as indirect impacts such as avoidance of areas of active construction and resulting modification to established daily movement patterns.

The following measures are recommended to reduce these impacts.

- To prevent incidental impacts to nesting birds and bat maternity colonies, woody vegetation clearing should be restricted to outside of the bat maternity and migratory bird nesting seasons, generally April 1 through October 31. If vegetation clearing must occur within this window, a qualified ecological professional should be retained to ensure no birds or bats are incidentally harmed by vegetation removals.
- Grading activities should be limited to the active season for wildlife, typically May 1 through September 30 to prevent entombment within burrows, tunnels, or other subterranean features.
- Limiting construction activities to daylight hours will reduce the impacts to behaviour changes (avoidance) of local wildlife in response to the project.

6.6 Climate Change

Project impacts and resiliency to climate change were taken into consideration during the study. Considering how a project contributes to climate change, through its greenhouse gas emissions or its effects on the natural environment, is important to the planning process as it allows proponents to consider climate mitigation measures to avoid, minimize, or offset such effects. As well, considering how climate change may affect a project, such as through increased flooding or drought, is also critical to the planning process through enabling proponents to make informed decisions around how to design a project to withstand such environmental conditions.

Approaches for considering and addressing climate change in project planning are through 1) Reducing a project's effect on climate change; and 2) Increasing the project's resilience to climate change.

With regards to the project's resilience to climate change, one major consideration to take into implementation is siting PS outside of the current Regulated Area and through grading ensuring that it has a free board above the regulatory elevation with regard to door and chamber openings.

6.7 Cultural Heritage and Archaeological Resources

As previously noted, there are no known significant cultural heritage resources within the Study Area. The proposed route of the gravity sewer to PS 14 and the forcemain discharging from PS14 are along municipal road right of ways which have previously disturbed any potential cultural or archaeological heritage resources. The CK PUC has made a commitment to have the site of PS 14 (once selected) reviewed through a Stage 1 and 2 Archaeological Assessment to determine if there is any potential for cultural heritage and archaeological resources.

6.8 Municipal Infrastructure and Utilities

Detailed design will attempt to minimize impacts to existing utilities. During the early phase of detailed design, the intention is to confirm the location, depths, and relocation/protection requirements of existing utilities through direct consultation with the affected utility companies.

6.9 Monitoring During Construction

The mitigation measures identified in this report shall be written into the contract specifications. During construction, the Contract Administrator will ensure that monitoring/inspection of the project works is undertaken to ensure that all environmental commitments identified in the Project File Report are adhered to by the contract team. Following completion of construction (i.e. post construction), an inspection should be undertaken to ensure the effectiveness of the identified mitigation measures.

7.0 REFERENCES

Chatham-Kent Public Utilities Commission, Municipality of Chatham-Kent Water and Wastewater Master Plan Addendum Report (Final), Dillon Consulting, June 2018.

Lower Thames Valley Conservation Authority. 2023. *Lower Thames Valley Watershed Report Card 2023*. Available: https://www.lowerthames-conservation.on.ca/wp-content/uploads/2023/03/LTVCA_watershedreport_2023.pdf

Lower Thames Valley Source Protection Area Thames-Sydenham and Region Source Protection Committee. 2020. Lower Thames Valley Source Protection Area Updated Assessment Report Revised, January 2020. Available: <https://www.sourcewaterprotection.on.ca/approved-source-protection-plan/approved-assessment-reports/>

Municipal Class Environmental Assessment (MCEA), Municipal Engineers Association, March 2023.

Municipality of Chatham-Kent. 2023. Part I - Designated Properties, Properties Designated under Part IV of the Ontario Heritage Act. Available: <https://www.chatham-kent.ca/localgovernment/governmentresources/Documents/Designated%20Properties.pdf>

Municipality of Chatham-Kent. January 11, 2015. Schedule C4 Natural Heritage & Hazard Features, Map C4 Community of Harwich Township. Available: <https://www.chatham-kent.ca/business/planning/Documents/SCHEDULE%20C4%20JANUARY%202016.pdf>

Ontario Ministry of Environment, Conservation and Parks. 2023. Map: Well records. Available: <https://www.ontario.ca/page/map-well-records>

Ontario Ministry of Finance. 2021. Population Projections for Ontario's 49 Census Divisions by Age and Sex, 2021-2046. Available: <https://data.ontario.ca/dataset/population-projections>

Thames Valley Engineering, Sanitary Sewer Design Review and Analysis Park Avenue East Pump Station No. 9 Area Municipality of Chatham-Kent, Thames Valley Engineering, May 25, 1998.

**APPENDIX 1
PUBLIC CONSULTATION**

APPENDIX 1.1
Public Notices

**Chatham Kent Public Utilities Commission
Municipal Class Environmental Assessment
for the Sanitary System and Pump Station 14 in
South Lynnwood Area
NOTICE OF STUDY COMMENCEMENT**

The Study

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the construction of Sanitary System and Pump Station 14 in South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water, collection and treatment of sewage in the Municipality of Chatham-Kent.

This MCEA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham's sewage collection system.

The Process

The MCEA study will be following the Schedule "B" planning process as per the Municipal Engineers Association's MCEA manual (October 2000, as amended in 2007, 2011 and 2015), which is approved under the Ontario Environmental Assessment Act. A Project File documenting the MCEA process will be available for public review at the end of the study.

How to Get Involved

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. One Public Information Centre (PIC) will be held. The PIC will introduce the project and present the servicing constraints and opportunities, potential solutions, evaluation criteria, and the proposed sanitary servicing strategy including associated capital projects. Advance notification will be provided prior to the PIC.

If you have comments, require further information or would like to be added to the study's mailing list to receive future notifications, please contact either:

Ali Akl, P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission
Municipality of Chatham - Kent
325 Grand Ave East
Chatham, ON N7L 1W9
alia@chatham-kent.ca
226-312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.
Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
jtyrrell@rvanderson.com
519-681-9916 ext. 5038

This notice first issued on December 9, 2021

With the exception of personal information, all comments will become part of the public record of the Study. The Study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



**Chatham Kent Public Utilities Commission
Municipal Class Environmental Assessment
for the
Sanitary System and Pump Station 14
in South Lynnwood Area
Notice of Public Information Centre # 1**

Background

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the Sanitary System and Pump Station 14, in the South Lynnwood Area. CK PUC is responsible for the treatment and delivery of safe drinking water and currently supplies water and wastewater services to a population of approximately 89,000 within the Municipality of Chatham-Kent.

This MCEA study will review and confirm municipal wastewater servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 in South Lynnwood Area in order to provide sustainable municipal sanitary sewer service and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting new sewers, pumping stations, and forcemains in the South Lynnwood Area to provide for future residential growth.

Public Information Centre #1

A Public Information Centre (PIC) will be held for the study to present the Problem and Opportunity Statement, background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline.

CK PUC will be holding an online PIC. This PIC will have materials available starting on June 29, 2022 and will be available for the duration of the study. To access the PIC materials, please visit the 'Let's Talk' Chatham Kent (<https://www.letstalkchatham-kent.ca/>) project page at the following address:

<https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

How to Get Involved

Public input is essential to this study. CK PUC invites anyone with an interest in the study to have an opportunity to provide feedback and help inform the decision-making process. Comments will be received until July 27, 2022, after which, the Class EA will be finalized. If you have comments, require further information, or would like to be added to the study's mailing list to receive future notifications, please contact either:

Ali Akl, P.Eng., PMP
Project Engineer
Chatham-Kent Public Utilities Commission
Municipality of Chatham-Kent
325 Grand Ave East
Chatham, ON N7L 1W9
alia@chatham-kent.ca
226-312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.
Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
ityrrell@rvanderson.com
519-681-9916 ext. 5038

This notice first issued on June 29, 2022

With the exception of personal information, all comments will become part of the public record of the Study. The Study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

APPENDIX 1.2
Agency/Public Contact List and
Notifications

Agency/Public List and Response Log

Chatham Kent Public Utilities Commission
Municipal Class Environmental Assessment
for the Sanitary System and Pump Station 14 in South Lynnwood Area
Class EA

Technical Agency Stakeholder Contact List

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List	Notice of Study (date sent)	Notice of PIC (date sent)	Comments Received	Response / Action
Provincial Ministries, Agencies and Departments												
Ministry of the Environment, Conservation and Parks (MECP)	Southwest Region		sanoffication.swregion@ontario.ca	733 Exeter Road, London, ON N6E 1L3	1-800-265-7672	Complete the project information form and send copy of notice + form by email ALL NOTICES TO THIS EMAIL FROM MECP ONLY			09-Dec-21	2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Mark Badali	Regional Environmental Planner (REP) – Southwest Region	Mark.Badali@ontario.ca		(416) 457-2155	DON'T SEND NOTICE OF COMMENCEMENT, SEND FUTURE NOTICES IF ASSIGNED TO THE PROJECT- Only send to Mark and above email moving forward				2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Lee Bradshaw	Agricultural Environmental Officer	lee.bradshaw@ontario.ca	Unit 620 4540 Rhodes Drive Windsor, ON N9W 5K5	519-980-0046	Do not send Notices-			14-Dec-21	2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Stephanie Francis	Senior Environmental Officer	stephanie.francis@ontario.ca	Unit 620 4510 Rhodes Drive Windsor, ON N9W 5K5	519-259-5226	No Longer works for Windsor send notices to Southwest Windsor (MECP) <Environment.Windsor@ontario.ca>			14-Dec-21	2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Annmaria Cross	Director, EA Modernization	annmaria.cross@ontario.ca	14th Fl., 438 St. Clair Avenue W Toronto, ON M4V 1P5	416-314-7967	Do not send Notices-			14-Dec-21	2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Kathleen O'Neill	Director, Environmental Assessment	kathleen.oneill@ontario.ca	436 St. Clair Avenue W Toronto, ON M4V 1P5	647-287-6664	Do not send Notices-			14-Dec-21	2022-06-27		
Ministry of the Environment, Conservation and Parks (MECP)	Craig Newton	Regional Environmental Planner / Regional EA Coordinator	craig.newton@ontario.ca	733 Exeter Road London, ON N6E 1L3	519-9873-6044	Undeliverable		14-Dec-21	14-Dec-21			
Ministry of Municipal Affairs and Housing (EA Policy)	Erick Boyd	Manager (Acting)	erick.boyd@ontario.ca	659 Exeter Road, 2nd Floor, London, ON N6E 1L3	519-873-4031				09-Dec-21	2022-06-27		
Ministry of Municipal Affairs and Housing	Sean Fraser	Director, Provincial Planning and Policy	sean.fraser@ontario.ca	College Park 13th Flr 777 Bay Street Toronto, ON M7A 2J3	416-585-6072				14-Dec-21	2022-06-27		
Ministry of Municipal Affairs and Housing	Paula Dill	Provincial Land and Development Facilitator	paula.dill@ontario.ca	College Park 13th Flr 777 Bay Street Toronto, ON M7A 2J3	416-325-9764				14-Dec-21	2022-06-27		
Ministry of Agriculture, Food and Rural Affairs	David Marriott	Rural Planner, Western Ontario	david.marriott@ontario.ca	1 Stone Road W, 3rd Floor, Guelph, ON N1G 4Y2	519-766-5990				09-Dec-21	2022-06-27		
Ministry of Agriculture, Food and Rural Affairs	Drew Crinklaw	Policy Advisor	drewcrinklaw@ontario.ca	667 Exeter Road London, ON N6E 1L3	519-317-4493	Undeliverable			14-Dec-21	2022-06-27		
Ministry of Agriculture, Food and Rural Affairs	Michele Doncaster	Manager of Land Use Policy & Stewardship	michele.doncaster@ontario.ca	1 Stone Road Guelph, ON N1G 4Y2	226-979-1552				14-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Karla Barboza	Team Lead(A), Heritage Heritage Planning Unit Programs and Services Branch	karla.barboza@ontario.ca	Ministry of Tourism, Culture and Sport 401 Bay Street, Suite 1700 Toronto, ON M7A 0A7	416-314-7120				09-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Dan Minkin	Heritage Planner (Culture Services Unit)	Dan.Minkin@ontario.ca	Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	416-314-7147				09-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Deborah Perks	Senior Planning and Issues Coordinator	deborah.perks@ontario.ca	2nd Flr, 400 University Ave Toronto, ON M7A 2R9	647-281-2956				14-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Deborah Hossack	Heritage Advisor	deborah.hossack@ontario.ca	401 Bay Street Toronto, ON M7A 0A7	416-314-7204				14-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Winston Wong	Heritage Planner, Cultural Services Unit	winston.wong@ontario.ca	400 University Ave., 4th Floor Toronto, Ontario M7A 2E5	416-314-7147	removed from list			14-Dec-21	2022-06-27		
Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNR)	Steven Strong	District Planner - Aurora District	steven.strong@ontario.ca	50 Bloomington Road Aurora, ON	905-713-7366				09-Dec-21	2022-06-27		
Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNR)	Karina Černiavskaja	District Planner - Aylmer District	karina.cerniavskaja@ontario.ca	615 John Street North Aylmer, ON N5H 2S8	519-773-4757		2021-12-17			2022-06-27		
Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNR)	Heather Riddell	District Planner	heather.riddell@ontario.ca	615 John Street North Aylmer, ON N5H 2S8	519-773-4757	Undeliverable		14-Dec-21	14-Dec-21			
Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNR)	Jim Boothby	Senior Environmental Planning Analyst	jim.boothby@ontario.ca	Whitney Block Rm 5520 99 Wellesley Street W Toronto, ON M7A 1W3	705-772-8873				14-Dec-21	2022-06-27		
Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNR)	Aisha Sayles	Project and Issues Coordinator	aisha.sayles@ontario.ca	Whitney Block 5th Flr Rm 5540, 99 Wellesley Street W Toronto, ON M7A 1W3	437-224-4082				14-Dec-21	2022-06-27		
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Rosi Zinger	Heritage Planner (Culture Services Unit)	rosi.zinger@ontario.ca	Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	416-314-7159				09-Dec-21	2022-06-27		
Ministry of Indigenous Affairs	Lise Chabot	Manager, Ministry Partnerships Unit	lise.chabot@ontario.ca	Suite 400, 160 Bloor St. E, Toronto, ON M7A 2E6	647-532-0781				09-Dec-21	2022-06-27		
Ministry of Indigenous Affairs	Matt Garrow	Director, Strategic Planning and Economic Policy Branch	matt.garrow@ontario.ca	4th Flr, 160 Bloor Street E Toronto, ON M7A 2E6	416-314-1602	No longer with government		14-Dec-21	14-Dec-21			
Ministry of Indigenous Affairs	Heather Levesque	Director, Indigenous Relations Branch	heather.levesque@ontario.ca	4th Flr, 160 Bloor Street E Toronto, ON M7A 2E6	416-325-7032				14-Dec-21	2022-06-27		
Environmental Assessment and Permissions Branch		Director	enviropermissions@ontario.ca	135 St. Clair Avenue West, 1st Floor, Toronto ON M4V 1P5		DO NOT SEND NOTICES						
Ministry of Transportation	Dawn Irish	Manager, Environmental Policy Office - Transportation Planning Branch	dawn.irish@ontario.ca	Garden City Tower 2nd Flr 301 St. Paul Street St. Catharines, ON L2R 7R4	905-704-3179				14-Dec-21	2022-06-27		
Ministry of the Attorney General	Joseph Hillier	Chief of Staff	joseph.hillier@ontario.ca	College Park 4th Flr, Suite 425 777 Bay Street Toronto, ON M5G 2E5	416-325-7966				14-Dec-21	2022-06-27		
Ministry of the Attorney General	Amanda Iarusso	Director of Policy and Legal Affairs	Amanda.Iarusso@ontario.ca	McMurtry-Scott Bldg 11th Flr 720 Bay Street Toronto, ON M7A 2S9	416-326-2220	Undeliverable			14-Dec-21	2022-06-27		
Ministry of Infrastructure	Wendy Ren	Director, Policy and Planning Branch	wendy.ren@ontario.ca	McMurtry-Scott Bldg 11th Flr 720 Bay Street Toronto, ON M7A 2S9	416-326-2220	No longer with Attorney General		14-Dec-21	14-Dec-21		Please note that I am no longer with Attorney General Doug Downey's office and this	Removed from list
Ministry of Health	Rebecca Quach	Senior Strategy and Planning Advisor	Rebecca.Quach@ontario.ca	University Ctr 24th Flr 389 University Avenue Toronto, ON M5G 2M2	647-206-2806	Undeliverable		14-Dec-21	14-Dec-21	2022-06-27		
Federal Ministries, Agencies and Departments												
Canadian Heritage	Brian Mackay	Ontario Regional Advisor	brian.mackay@canada.ca	15 Rue Eddy Gatineau, QC K1A 0M5	819-997-7788				14-Dec-21	2022-06-27		
Environment and Climate Change Canada	Rob Dobos	Manager, Environmental Assessment Section	rob.dobos@canada.ca	P.O. Box 5050 667 Lakeshore Road Burlington, ON L7R 4A6	905-336-4953	Undeliverable		14-Dec-21	14-Dec-21			
Fisheries and Oceans Canada	Dave Gibson	Senior Biologist	dave.gibson@dfo-mpo.gc.ca	P.O. Box 85060 2027 Harvester Road Suite 304 London, ON N6E 2V2	905-336-4764	Undeliverable		14-Dec-21	14-Dec-21			
Impact Assessment Agency of Canada	Emilie St-Onge	Coordinator, CEAA Registry	emilie.st-ong@canada.ca	Place Bell Canada 160 Elgin Street - 20nd Flr Ottawa, ON K1A 0H3	343-961-1449	Undeliverable		14-Dec-21	14-Dec-21			
Impact Assessment Agency of Canada	Steven Begg	Manager, Impact Assessment Policy	steven.begg@canada.ca	160 Elgin Street - 22nd Floor Ottawa, ON K1A 0H3	613-314-9829	Asked to be removed		14-Dec-21	14-Dec-21		I have asked repeatedly to be removed	Removed from list
Transport Canada	General Email	General Class EA Email	EnviroOnt@tc.gc.ca			Removed from list based on self assessment	20-Dec-21	20-Dec-21	2022-06-27			
Transport Canada	David E-Zeit	Regional Senior Environmental Supervisor	david.zeit@tc.gc.ca	4900 Yonge Street Unit 300 North York, ON M2N 6A6	416-962-0491	Send all future Class EA related inquires to EnviroOnt@tc.gc.ca.		20-Dec-21	14-Dec-21	2022-06-27		
Transport Canada	Tera Yochim Hope	Regional Senior Environmental Advisor	tera.yochimhope@tc.gc.ca	4900 Yonge Street Unit 300 North York, ON M2N 6A6	416-962-0601	request to remove Transport Canada contact Tera Yochim Hope and send all future Class EA related inquires to EnviroOnt@tc.gc.ca.		20-Dec-21	14-Dec-21	2022-06-27		
Indigenous and Northern Affairs Canada	Jody Knibbs	Director, Major Projects Implementation Office	jody.knibbs@canada.ca	100 Anemki Place, Suite 101 Thunder Bay, ON P7J 1A5	807-624-5932				14-Dec-21	2022-06-27		
Indigenous and Northern Affairs Canada	Roy Angelow	Sr. Environmental Specialist	roy.angelow@canada.ca	655 Bay Street, Suite 700, 8th Floor Toronto, ON M5G 2K4	416-973-6225				14-Dec-21	2022-06-27		
Indigenous and Northern Affairs Canada	Alshineh Pasha	Socio-Economic Program Officer	alshineh.pasha@canada.ca	655 Bay Street, Suite 700, 8th Floor Toronto, ON M5G 2K4	416-973-7319				14-Dec-21	2022-06-27		
Indigenous and Northern Affairs Canada	Lina Leficq	Regional Environment Management Manager	lina.leficq@canada.ca	655 Bay Street, Suite 700, 8th Floor Toronto, ON M5G 2K4	416-973-6208				14-Dec-21	2022-06-27		
Crown-Indigenous Relations and Northern Affairs Canada	General Contact		adnc_info@pubs.aandc@canada.ca						09-Dec-21	2022-06-27		
Municipality of Chatham Kent												
Municipality of Chatham-Kent	April Rietdyk	General Manager, Community Human Services	april.rietdyk@chatham-kent.ca	315 King Street W Chatham, ON N7M 5K8	519-360-1998				14-Dec-21	2022-06-27		
Municipality of Chatham-Kent	Thomas Kelly	General manager, Infrastructure and Engineering Services	thomas.kelly@chatham-kent.ca	315 King Street W Chatham, ON N7M 5K8	519-360-1998				14-Dec-21	2022-06-27		
Municipality of Chatham-Kent	Bruce McAllister	Director, Planning Services	bruce.mcallister@chatham-kent.ca	315 King Street W Chatham, ON N7M 5K8	519-360-1998				14-Dec-21	2022-06-27		
Municipality of Chatham-Kent	Teresa Bendo	Director, Public Health	teresa.bendo@chatham-kent.ca	315 King Street W Chatham, ON N7M 5K8	519-360-1998				14-Dec-21	2022-06-27		

**Chatham Kent Public Utilities Commission
Municipal Class Environmental Assessment
for the Sanitary System and Pump Station 14 in South Lynnwood Area
Class EA**

Technical Agency Stakeholder Contact List

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List	Notice of Study (date sent)	Notice of PIC (date sent)	Comments Received	Response / Action
Aamjiwaang First Nation	Courtney Jackson	Consultation Worker	cjackson@aamjiwaang.ca			<i>Emailed confirming our email was logged in system and info sent to committee review on July 19. Will reach out after if they have any questions/concerns.</i>						
Bkejwanong First Nation (Walpole Island)	Charles Sampson	Chief		117 Tahgahoning Rd Walpole Island Wallaceburg, ON N8A 4K9	519-627-1481 ext. 320	<i>Use general phone # 519-628-5700 to confirm contact and email</i>			09-Dec-21	2022-06-27		
Bkejwanong Territory (Walpole Island)	Janet Macbeth	Project Review Coordinator	Janet.macbeth@wfn.org	R.R. #3 117 Tahgahoning Road Walpole Island, ON N84 4K9					09-Dec-21	2022-06-27		
Bkejwanong Territory (Walpole Island)	Dean Jacobs	Consultation Manager	dean.jacobs@wfn.org	R.R. #3 117 Tahgahoning Road Walpole Island, ON N84 4K9					09-Dec-21	2022-06-27		
Walpole Island First Nation (Bkejwanong Territory)	Dan Miskokomon	Chief	dan.miskokomon@wfn.org	117 Tahgahoning, R.R. 3 Walpole Island, ON N8A 4K9	519-627-1481				14-Dec-21	2022-06-27		
Walpole Island First Nation (Bkejwanong Territory)	Allen Deleary	Director of Operations	allen.deleary@wfn.org	117 Tahgahoning, R.R. 3 Walpole Island, ON N8A 4K9	519-628-5700	Undeliverable			14-Dec-21			
Walpole Island First Nation (Bkejwanong Territory)	Rex Isaac	Business Development Coordinator	rex.isaac@wfn.org	117 Tahgahoning, R.R. 3 Walpole Island, ON N8A 4K9	519-627-1475 ext. 109				14-Dec-21	2022-06-27		
Eelinaapewi Lahnkewit (Delaware Nation at Moraviantown)	Denise Stonefish	Chief	denise.stonfish@delawarenation.on.ca	14760 School House Line, RR3 Thamesville, ON, N0P 2K0	519-692-3936	<i>Use general phone # 519-692-3936 to confirm contact and email. Connor had email</i>			14-Dec-21	2022-06-27		
Caldwell First Nation	Mary Duckworth	Chief	ChiefMaryDuckworth@caldwellfirstnation.ca	14 Orange St Leamington, ON N8H 1P5	519-322-1766	<i>Send query on their consultation site: https://www.caldwellfirstnation.ca/consultation.html</i>			09-Dec-21	2022-06-27		
Caldwell First Nation	Louise Hillier	Band Representative	band.rep@caldwellfirstnation.ca	14 Orange Street Leamington, ON N8H 1P5	519-322-1766				14-Dec-21	2022-06-27		
Caldwell First Nation	Nikki van Oirschot	Director of Operations	nikki@caldwellfirstnation.ca	14 Orange Street Leamington, ON N8H 1P5	519-322-1766				14-Dec-21	2022-06-27		
Caldwell First Nation	Brianna Sands	Consultation Coordinator	consultation.coordinator@caldwellfirstnation.ca	14 Orange Street Leamington, ON N8H 1P5		Consultation coordinator			09-Dec-21	2022-06-27		
Chippewas of the Thames First Nation	Consultation General Email		consultation@cottfn.com			Notices to be sent to this email	2021-12-14			2022-06-27		
Chippewas of the Thames First Nation	Chief Jacqueline French	Chief	jfrench@cottfn.com			Send notices to consultation@cottfn.com	2021-12-14			2022-06-27		
Chippewas of the Thames First Nation	Fallon Burch	Consultation Coordinator	fburch@cottfn.com	320 Chippewa Road Muncy, ON N0L1Y1	519-289-5555 Ext 251	Send notices to consultation@cottfn.com			09-Dec-21	2022-06-27		
Munsee-Delaware Nation	Mark Peters	Chief	chief.peters@munsee.ca	289 Jubilee Rd, RR 1 Munsee, ON N0L 1Y0	519-289-5396 ext 226				09-Dec-21	2022-06-27		
Munsee-Delaware Nation	Stacey Phillips	Consultation Coordinator	consultation@munsee.ca	R.R. #1 289 Jubilee Road Munsee, ON N0L 1Y0					09-Dec-21	2022-06-27		
Munsee-Delaware Nation	Roger Thomas	Chief	chief@munsee.ca	289 Jubilee Road Munsee, ON N0L 1Y0	519-289-5396	Undeliverable			14-Dec-21	2022-06-27		
Munsee-Delaware Nation	Carla Noah	Reception/Membership	reception@munsee.ca	289 Jubilee Road Munsee, ON N0L 1Y0	519-289-5396				14-Dec-21	2022-06-27		
Munsee-Delaware Nation	Glenn Forrest	Director of Operations	glenn@munsee.ca	289 Jubilee Road Munsee, ON N0L 1Y0	519-289-5396				14-Dec-21	2022-06-27		
Utilities												
Bell Canada	Diego Tobias	GT Fiber Services Inc.	PUCC.circulations.GT@bell.ca	5025 Creekbank Road Mississauga, ON L4W 0B6	905-614-6820				09-Dec-21	2022-06-27		
Hydro One Networks	General Email	Secondary Land Use	secondarylanduse@hydroone.com	483 Bay Street, North Tower, 15th Floor Toronto, ON					09-Dec-21	2022-06-27		
Rogers Communications		Rogers Municipal Operations Centre	Rogers.MOC@telecom.ca	800 York Street LONDON, ON N5W 2S9					09-Dec-21	2022-06-27		
Enbridge Gas Distribution Incorporated	Markup Requests		markups@enbridge.com						09-Dec-21	2022-06-27		
TransCanada Pipelines Inc.	Darlene Quilty	Project & Planning Coordinator	dquilty@mhbcpplan.com	86 Healey Road, Bolton ON L7E 5A7	705-727-0663 x21				09-Dec-21	2022-06-27		
Canadian National Railway Company (CN)	Michael Vallins	Manager Public Works, Design & Construction	michael.vallins@cn.ca		416-529-0167				09-Dec-21	2022-06-27		
Cogeco Cable	Larry Applewhaite	Senior Planner	Larry.Applewhaite@cogeco.com	491 Richmond Street Chatham, ON N7M 1R2	519-397-2959	Undeliverable			14-Dec-21			
Entegrus Inc. (formerly Chatham-Kent Energy)	Jim Hogan	CEO	jim.hogan@entegrus.com	P.O. Box 70 320 Queen Street Chatham, ON N7M 5K2	519-631-5550				14-Dec-21	2022-06-27		
Entegrus Inc. (formerly Chatham-Kent Energy)	Tomo Matesic	Vice Engineering	tomo.matesic@entegrus.com	P.O. Box 70 320 Queen Street Chatham, ON N7M 5K2	519-352-6300 ext. 349				14-Dec-21	2022-06-27		
Hydro One Networks	Dan White	Land Use Agent	dan.white@HydroOne.com	6797 Falconbridge Drive Melbourne, ON N0L 1T0	519-643-6674	Undeliverable			14-Dec-21			
Lambton Area Water Supply System	Clinton Harper	General Manager	clinton.harper@lawss.org	1215 Fort Street Sarnia, ON N7V 1M1	519-344-7429				14-Dec-21	2022-06-27		
Union Gas Limited	Robert Pieta	Construction and Growth Representative	rpieta@uniongas.com	PO Box 700, 3840 Rhodes Drive Windsor, ON N8A 6N7	519-251-6813				14-Dec-21	2022-06-27		
Relevant Interest Groups / Other												

**Chatham Kent Public Utilities Commission
Municipal Class EA
for the Sanitary System and Pump Station 14 in South Lynnwood Area
Class EA**

Technical Agency Resident and Landowner Contact List

Organization/ Resident	Contact	Email	Address	Phone	Date Added to List	Remove From List (Date)	Comments	Response
Resident	[REDACTED]	[REDACTED]	[REDACTED]		10-Jan-22		i would like to be kept informed	Added to mailing list.
Resident	[REDACTED]	[REDACTED]	[REDACTED]		10-Jan-22		<p>Thank you for the recent Notice of Study Commencement for the sanitary system for South Lynnwood and the opportunity to receive future notifications re: this MCEA. I would like to be added to the mailing list for these future updates either by email at [REDACTED] or regular mail at [REDACTED]</p> <p>As to comments, since this area is to be developed on small lots, a sanitary sewer system will be required. Such a system will be very expensive - the cost of which must be borne by the new developments that will be served by this sanitary system.</p> <p>I have lived here since [REDACTED] with no issue with my septic tank system. I have no need of this proposed sanitary sewer system and will be opposed to any financial burden being imposed on myself and my property either by general taxation or any local improvement charge. This municipal sewer system is being proposed for the benefit of the developers of the vacant lands in this area. As the beneficiaries of this work, they must be the funders of it.</p> <p>Thank you for the opportunity to comment on this proposal.</p>	
Resident	[REDACTED]	[REDACTED]	[REDACTED]		27-Jan-22		Please add my information to the mailing list for the Lynnwood environmental assessment	Added to mailing list.
Resident	[REDACTED]	[REDACTED]	[REDACTED]		27-Jan-22		<p>We understand that the study is to address the needs for the South Lynnwood Estates subdivision.</p> <p>However, will consideration be given for oversizing the pumping station to accommodate property in the area namely residential properties on Eastlawn Road, Cameron Ave., Glenmar Ave., Lynnwood Ave., Joplyn St., and Fairview Line(between Eastlawn Road and Highway 40).</p> <p>Will consideration be given for sanitary sewers to service the properties referred to in the paragraph preceding and will there be any timeline any such construction?</p>	<p>Added to mailing list. Good afternoon [REDACTED]</p> <p>I reviewed our distribution list and found your address was included. I will investigate why the notice of commencement was not sent and will ensure the notice for the public information center "PIC" will be sent to you and published in the local papers and social media when ready. The PIC will be ready within the next couple of months. The link to the project website can be found here: https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project . A presentation will be available and comment section will be activated when the PIC is online.</p> <p>Part of the environmental assessment includes collecting local information for the sewer and pump station project. The design phase has not commenced yet. The oversizing of the infrastructure will be calculated from the design phase to meet future demand, based on projected growth, relative to the service life of the infrastructure. A map of the study area is shown on the website above. At this period in the project, the intention is to include voluntary sewer connections for the properties along Eastlawn Road between Cameron Avenue and Glenmar Avenue. A service connection fee has not been calculated yet. Properties not in the area mentioned above would need to have a successful petition to have a sewer constructed fronting their property.</p> <p>Construction cannot begin until the design and tendering are complete. At the earliest, tendering will be end of Fall 2022.</p> <p>If you have any questions, feel free to contact me.</p> <p>Ali Akl, M.Eng., P.Eng., PMP. Project Engineer Chatham-Kent Public Utilities Commission (PUC) Municipality of Chatham-Kent</p>
Resident	[REDACTED]	[REDACTED]					<p>Good morning,</p> <p>Thanks for sharing this information. I took time to watch the video presentation. I must say I don't agree with everything that is found in the report. I'm sure the change of ownership of the proposed subdivision sparked the idea to discuss sewers in our area. My personal thoughts are not only as a [REDACTED] for 34 years but as a homeowner in Lynnwood subdivision is if the developer wants sewers they should go ahead and pay for them at their own expense. I think this is typical in the development of other areas throughout Chatham Kent over the years. The idea of spending \$20 million plus dollars so we can continue to flush our toilets as we do daily doesn't make much Financial sense to me. As you know real estate is in a steep contraction at the moment which will probably last for a reasonable period of time. I believe there are much more urgent needs to be addressed throughout our community than this project. The need for a new subdivision at this moment does not seem to exist. After living in this lovely quiet subdivision we are strongly considering selling our home and moving elsewhere if the project moves forward. Thanks for reading this email. I hope you have an enjoyable summer.</p>	

Notices

Those coming home to C-K encouraged to share their stories

People who moved away but have since returned to Chatham-Kent are being encouraged to share their stories.

The municipality's community attraction and promotion team is holding the annual 'baCK to Chatham-Kent' Home for the Holidays campaign, which will take place throughout December.

A flag-raising for the campaign was to be held Monday at the Civic Centre.

"The baCK to Chatham-Kent campaign highlights the many reasons why Chatham-Kent is a great place to live and work," Mayor Darrin Canniff said in a release.

"It encourages former residents to move back to their roots and build their lives and careers here. As always, we are happy to welcome C-K residents back home."

The campaign shares experiences of those who have chosen to return, along with their successes, and highlights the lifestyle and employment opportunities available in Chatham-Kent.

SEE STORIES ON **A20**



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Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area

NOTICE OF STUDY COMMENCEMENT

The Study

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This MCEA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham's sewage collection system.

The Process

The MCEA study will be following the Schedule "B" planning process as per the Municipal Engineers Association's MCEA manual (October 2000, as amended in 2007, 2011 and 2015), which is approved under the Ontario Environmental Assessment Act. A Project File documenting the MCEA process will be available for public review at the end of the study.

How to Get Involved

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. One Public Information Centre (PIC) will be held. The PIC will introduce the project and present the servicing constraints and opportunities, potential solutions, evaluation criteria, and the proposed sanitary servicing strategy including associated capital projects. Advance notification will be provided prior to the PIC.

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Ali Akl, P.Eng., PMP.

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Municipality of Chatham - Kent
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226-312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.

Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
jtyrrell@rvanderson.com
519-681-9916 ext. 5038

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LIFE

Porchlight nets \$50K; Street Sales next

By Bruce Corcoran
bruce@chathamvoice.com

Chatham Goodfellows volunteers had a busy and very successful night knocking on doors seeking donations Nov. 29. The group that seeks to ensure no child is without a Christmas raised more than \$50,000 through its Porchlight campaign. "It leaves you speechless," Good-

fellows president Tim Haskell said of the outpouring of support. "We also brought in a bunch of food and toys. It basically filled a car trailer." He said in past years, they managed to top \$40,000 in donations, but never \$50,000. Haskell added the result alleviates some raised blood pressure. "The whole thing, all the stress of not knowing what you'll get, this definitely gives you a lot less stress

knowing you still have the support there," he said. On top of that, there were parts of their catchment area that weren't reached he said, due to the fact "we only get so many volunteers. If we

missed you, try to find us. Street Sales are Dec. 10 and 11. If you want us to come and pick it up, I'll driver over there and pick it up myself." For donations, Goodfellows accepts e-Transfers at

donate@chathamgoodfellows.ca. You can also send a cheque to: Chatham Goodfellows PO Box 114 Chatham on N7M 5K1

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Students at Georges P. Vanier recently donated to the Chatham Goodfellows, pictured here, and the Chatham-Kent Women's Centre, following an in-house donation drive. *Contributed image*



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Ali Aki, P.Eng., PMP. Project Engineer Chatham-Kent Public Utilities Commission Municipality of Chatham - Kent 325 Grand Ave East Chatham, ON N7L 1W9 alia@chatham-kent.ca 226-312-2023 ext. 4347	John Tyrrell, M.Sc.(Eng.), P.Eng. Senior Project Manager/Regional Manager R.V. Anderson Associates Limited 557 Southdale Road East, Suite 200 London, ON N6E 1A2 jttyrrell@rvanderson.com 519-681-9916 ext. 5038
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Vanier kids come through

The Chatham Voice

The staff, students and parent community of Georges P. Vanier Catholic School contributed to a fundraising event in support of the Chatham Goodfellows and the Chatham-Kent Women's Centre.

Each cause was given in excess of \$1,000.

The Chatham Goodfellows will use the donation to help buy gifts and food boxes for those in need in our community so that there is "No Child Without A Christmas."

The school community also "adopted" three families from the

Women's Centre and will have a group of shoppers go out and buy gifts for them.

Grade 8 students, Nash Aarssen, Lilah Evans, Mya Lather, Stella Northcott and William Read collected the donations each day for a week. The school's goal was \$1000, but the school community blew that out of the water and donated over \$2500.

As an extra incentive, hometown Olympian and Georges P Vanier graduate Bridget Carleton donated two signed basketballs and a signed Team Canada practice jersey to be raffled off to the students.

New Vehicle, New Customer



Blair Waekens of Chatham is seen with Luce Cools picking up his Ram Warlock Edition 4-wheel drive. This is Blair's first vehicle from Luce. Thank you for choosing to shop local this season and enjoy your new pickup this winter!

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'It is specifically for students to use' in break

SCHOOLS FROM **A1**

Johnson said both he and Howitt were on a call with Nancy Naylor, the deputy education minister, Thursday morning and "there was absolutely no mention of any extension of the Christmas break that we've heard of."

A COVID-related item parents can expect to see before the Christmas break begins, however, is a home rapid antigen test kits, which are being supplied by the province to every student from kindergarten to Grade 12.

Howitt said the public board has already received its kits, which in-

"We're seeing some of the same aggression towards our staff..."

clude five tests, and will distribute them to students on Thursday.

Johnson said the Catholic board is also sending home the kits with students on Thursday.

"It is specifically for students to use during the Christmas break," Johnson said. "It's not intended to be used for other family members."

Johnson also added it's not a requirement that families use the tests for their children to return to school in January.

There will be online videos available in multiple languages from the Ministry of Education to supplement the instructions on how to use the kits, Howitt noted.

There are currently five outbreaks at elementary schools in Chatham-Kent, with positive cases ranging from two to four at the schools.

Both directors acknowledged that dealing with COVID-19 cases in schools can be an arduous task for all involved.

Howitt said sending home students due to positive cases of the virus is not always well received.

"We're seeing some of the same aggression towards our staff that is concerning to us from a staff well-being point of view," he said.

He added the statistics are clear; there are more cases and outbreaks in elementary schools compared to secondary schools.

"I think that's directly attributable to the vaccination rate, as those 12 and over where able to be vaccinated sooner than those five and to 11," Howitt said. "We're optimistic as parents continue to vaccinate their children five and older (that) those case counts will go down in the elementary panel and be a little more reasonable as they are in the high school panel." *eshreve@postmedia.com*

'Weddings have been a source of outbreaks at other health units'

COVID-19 FROM **A1**

"Looking at this very carefully, weddings have been a source of outbreaks at other health units," Colby noted. "Nobody wants to rain on anybody's special day, but we have to keep the community safe."

He said the health unit is busy making sure all of the cases are identified and followed up. He added public health will be looking at the situation to see whether there's a future fix that can be adopted.

"Our rituals are very important," said Colby, citing holiday event, as well as weddings and funerals, "but if I can identify any particular factor associated with anything, I'm going to address it in terms of policy."

The number of residents in hospital with the virus dropped by one to 10 on Friday, the health unit reported.

Now that children have been able to get a COVID-19 vaccine, there are 82,082 Chatham-Kent residents ages five and older who have had at least one dose of vaccination and 77,988 with two doses of the vaccine as of Friday.

Ontario to expand booster eligibility

Province's top doctor urges Ontarians to limit the size of their holiday gatherings

NICOLE THOMPSON

TORONTO All adults in Ontario will become eligible for a COVID-19 vaccine booster next month, the province's top doctor announced Friday, warning that the highly transmissible Omicron variant may become the dominant strain in mere weeks.

Chief Medical Officer of Health Dr. Kieran Moore also "strongly advised" people to limit the size of their holiday gatherings and ensure everyone attending is vaccinated. Ontario employers are also being urged to have their employees work from home.

Omicron was first detected in Ontario in late November, but already accounts for about 10 per cent of daily new COVID-19 cases, Moore said.

That's expected to increase to 20 per cent in the coming days before becoming the dominant strain — "as in complete strain replacement of Delta," Moore said — by the beginning of January.

"What we've seen is just a sudden escalation in multiple health units where we're seeing this activity increase," he said.

Ontarians 18 and older will be able to book a third dose starting Jan. 4, provided it's been at least six months since they received their second shot. People 50 and older are eligible starting Monday. Moore



Chief Medical Officer of Health Dr. Kieran Moore said Friday that Ontarians should limit the size of their holiday gatherings and urged employers to allow work from home. *THE CANADIAN PRESS FILES*

said people more at risk of severe disease are being prioritized.

Moore said the province is "re-viewing the definition" of what it means to be fully vaccinated, and three doses could become the standard, depending on what the data shows about the COVID-19 vaccines' effectiveness against the Omicron variant.

He said the province is looking to information coming out of Denmark and South Africa to determine how the virus might affect Ontarians.

The expanded booster strategy is one of a suite of measures meant

to protect against a surge in cases and the spread of Omicron.

"We all will have to continue to adhere to all the best practices that we put in play," Moore said.

"That's why our call to get first, second or third doses of vaccine is so important, and we need to really reflect on how we can best protect each other over the winter holidays."

The province does not have plans to close schools or extend the winter break, Moore said.

Ontario also announced it is extending its vaccine certificate program until further notice, instead

of starting to lift it in mid-January as was initially planned.

Other than a new requirement, effective Dec. 20, for youth aged 12 to 17 to be vaccinated to participate in organized sports at recreational facilities, Friday's developments did not bring new or reintroduced public health restrictions, simply strong recommendations.

Premier Doug Ford has said Ontario is taking a regional approach, leaving it up to public health units to craft their own rules based on local need and case counts.

Three southwestern Ontario health units, for example, jointly recommended Thursday that everyone should limit indoor social gatherings in private dwellings to no more than 10 people, and all attendees aged 12 and older should be vaccinated.

As of Friday, 85.3 per cent of Ontarians aged five and over had at least one dose of COVID-19 vaccine, and 80.8 per cent had two.

Ontario's surge in cases saw the province report 1,453 new diagnoses on Friday — the highest daily case count since May 23.

The province's proof-of-vaccination system will also be updated on Jan. 4 so that the certificate equipped with a QR code is the only version accepted.

The QR codes, rolled out a month after an initial PDF version of the certificate, are said to be much harder to fake.

The province has come under fire in recent weeks for continuing to accept the easily photoshopped PDFs.

Ontario is also moving ahead with a plan to have medical exemptions for COVID-19 shots verified by public health units and integrated into the certificate.

The Canadian Press



Have an opinion on what you've read? Send a letter to the editor to pepp@postmedia.com



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Prizes up for grabs in Alzheimer society fundraiser

A local real estate company is holding a draw with prizes from area businesses to support the local Alzheimer society.

Nest Realty is offering three stockings stuffed with items and gift certificates from Woolly Doodle, Centro, Retro Suites, Links of Kent and other businesses. The total prize value for the fundraiser, titled Dreaming of a Blue Christmas, is \$3,000.



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Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area

NOTICE OF STUDY COMMENCEMENT

The Study

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the construction of Sanitary System and Pump Station 14 in South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water, collection and treatment of sewage in the Municipality of Chatham-Kent.

This MCEA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham's sewage collection system.

The Process

The MCEA study will be following the Schedule "B" planning process as per the Municipal Engineers Association's MCEA manual (October 2000, as amended in 2007, 2011 and 2015), which is approved under the Ontario Environmental Assessment Act. A Project File documenting the MCEA process will be available for public review at the end of the study.

How to Get Involved

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. One Public Information Centre (PIC) will be held. The PIC will introduce the project and present the servicing constraints and opportunities, potential solutions, evaluation criteria, and the proposed sanitary servicing strategy including associated capital projects. Advance notification will be provided prior to the PIC.

If you have comments, require further information or would like to be added to the study's mailing list to receive future notifications, please contact either:

Ali Akl, P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission
Municipality of Chatham - Kent
325 Grand Ave East
Chatham, ON N7L 1W9
alia@chatham-kent.ca
226-312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.
Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
jtyrrell@rvanderson.com
519-681-9916 ext. 5038

This notice first issued on December 9, 2021

With the exception of personal information, all comments will become part of the public record of the Study. The Study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

NEWS

Students get voluntary testing 'homework'

By Pam Wright
Local Journalism Initiative
pamwrightlji@gmail.com

All pupils from Kindergarten to Grade 12 will be taking COVID-19 rapid-antigen test kits home for the holidays.

The kits, to be distributed Dec. 16 by the public and Catholic school board, are being added to the toolbox to fight the spread of COVID-19.

The object is to screen youngsters for the virus to prevent them from bringing the infection to school.

Lambton-Kent District School Board's director of education, John Howitt, said the kits for in-person learners include five rapid-antigen tests that can be used over the holidays.

Howitt stressed use of the kits is voluntary, adding video instruction on how to use the kits will be posted on the board's website.

Catholic board education director Scott Johnson said St. Clair District will be following a similar timetable.

He also wanted to clarify the testing is voluntary,

adding children do not have to use them in order to return to school in January.

"You are not required to comply," he said.

A large number of outbreaks in Ontario are occurring at elementary schools, and Chatham-Kent is no different.

The province is handing out 11 million kits with instructions to use them every three to four days over the break.

Video instruction on how to use the kits will be available to parents and guardians via the website.



Contributed image

Local students will be taking home a COVID-19 test kit with them this week, and usage is purely voluntary, but board officials hope the tests will help prevent COVID from coming back to school in January.

School boards leadership remains unchanged

The Chatham Voice

Both the Catholic and public school boards opted to go with

experience when choosing their board of trustees for the coming year.

There were no changes last

week to top board leadership roles at either board, with both organizations hosting the first meetings of the year.

John Van Heck was acclaimed as St. Clair Catholic District School Board chair Dec. 7, with Mat Roop acclaimed as vice-chair.

Van Heck was first elected to the board as a trustee in 2006 and has held the top post since 2016. Roop served as trustee for five years beginning in 2014, before being chosen as vice-chair in 2019.

Over at the Lambton Kent District School Board, the two top trustee spots stayed the same.

Randy Campbell was re-elected LKDSB chair, with Derek Robertson voted in for another term as vice-chair.

Campbell has served as a school board public trustee since 2006 and was elected chair for 2020-2021, serving two previous terms as the board's vice-chair.

Continued on page 13

STRAIGHT TALK with Ashley Patton



Watching a casket being loaded into a vehicle from my kitchen window is one of my first childhood memories. Living beside the family-owned funeral home in Bothwell gave me the opportunity to learn about funerals before I even knew what they were. At 5, I understood funerals to be a place where adults would come together when their loved one died. They would cry together and often leave each other feeling a little bit better. Death was something that happened regularly and was never hidden from me. Don and Cheryl were gentle and kind to the curious 5-year-old who would walk over to ask questions. On slow days, they would let me colour pictures in the lobby, help with gardening and we would pick up walnuts in the yard together. Their welcoming smiles made me feel safe, so the funeral home was never a place I feared. When people ask me why I became a funeral director it is not a complicated answer; it just makes sense.



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141 Park St., Blenheim - 519-676-3451

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Chatham greenhouse fined \$70,000 for injury to worker

DAILY NEWS STAFF

A Chatham greenhouse has been fined \$70,000 for an injury suffered by a worker nearly two years ago.

Truly Green, located on Bloomfield Road, pleaded guilty in the case, which involved an employee who was seriously hurt on Jan. 6, 2020.

According to a release from the Ministry of Labour, Training and Skills Development, the matter came up Nov. 24 in provincial offences court in Blenheim before Justice of the peace Salma Jafar.

The release stated the worker was asked to clean the irrigation room in the greenhouse. This room contained four plastic tanks, each approximately 2.5 metres high, with a capacity of almost 9,500 litres.

On top and between two of the tanks was a rotating shaft powered by an electric motor and

An employer shall provide information, instruction and supervision to a worker to protect the health or safety of the worker at a workplace.

gear box. That shaft was connected to a set of paddles inside the tank, which acted as agitators to stir the contents.

"On the date of the incident, the power to the shaft was not locked out, and the shaft was rotating while cleaning was being done," the release stated. "While kneeling and leaning over the tank rails to clean the tank, the worker fell inside the shaft and sustained critical injuries.

"The worker had not previously worked in the irrigation room and was not provided with written instructions for the cleaning of the tanks. No specific procedures were in place or communicated to workers for this task."

The Occupational Health and Safety Act states: "An employer shall provide information, instruction and supervision to a worker to protect the health or safety of the worker at a workplace."

The defendant was ruled to have failed to provide information, instruction and supervision to a worker, an offence contrary to Section 66 (1) of the act.

The court also imposed a 25 per cent victim fine surcharge as required by the Provincial Offences Act. The surcharge is credited to a special provincial government fund to assist victims of crime.



Chad Coene, president of the St. Clair secondary unit of the Ontario English Catholic Teachers' Association, Wayne Bechard, president of the elementary unit, and workers from Womens Interval Home Sarnia Lambton are shown with some of the toys donated by the Catholic board teachers. In all, they raised \$17,500, which was also used for toys to be donated to the Chatham Kent Women's Centre. SUPPLIED



The St. Clair units of the Ontario English Catholic Teachers' Association collected \$17,500 worth of presents for the Chatham-Kent Women's Centre and the Women's Interval Home of Sarnia-Lambton. SUPPLIED

Catholic board teachers raise \$17,500 for women's shelters

DAILY NEWS STAFF

Catholic school teachers from Chatham-Kent, Sarnia and Lambton County have donated \$17,500 worth of presents to two local women's shelters.

The St. Clair units of the Ontario English Catholic Teachers' Association delivered the items to the Chatham-Kent Women's Centre and the Women's Interval Home of Sarnia-Lambton.

The fundraiser invited teachers and education workers to participate in various activities, such as dress-down days, held over a week to collect money for the items. On the final day, everyone was encour-

aged to wear purple in support of the shelters' Shine a Light on Women's Abuse campaign.

Wayne Bechard, president of the association's local St. Clair elementary unit, said the teachers came up with the idea after noticing a need in the community.

"Our teachers support families in need at Christmas every year, but this year we heard many more stories about additional needs, likely due to the pressures from the COVID-19 pandemic," he said in a news release. "We reached out to our local women's shelters, and it was a perfect fit."

The teachers originally wanted to raise a few thousand dollars,

co-organizer Chad Coene said.

"The kindness and generosity started to snowball and took off, and we got support from every employee group across the board. For example, our custodians, educational assistants, librarians, social workers and administrators, they were all in," Coene, the secondary teachers' unit president, said.

"It was a great team effort, and we were overwhelmed by the total raised. It was way beyond what we were hoping for."

The two shelters have worked for more than 40 years, offering services to help women and children escape violence and rebuild their lives, the release said.

"We support women and children who are facing violence by providing shelter, advocacy, counselling and public education," Alicia Blair, youth and child programs counsellor with the Chatham Kent Women's Centre, said. "The presents donated by our local Catholic teachers and education workers will provide some joy and happiness to those in need."

Michelle Walsh, child witness counsellor with the Women's Interval Home, said the presents will provide a "brighter Christmas morning" for families who use the shelter.

"We are on a mission to provide an immediate, safe alternative for women and children, and work towards the elimination of family violence," Walsh said in the release. "This fundraising and awareness campaign has sparked important conversations."



Have an opinion on what you've read? Send a letter to the editor to pepp@postmedia.com



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This notice first issued on December 9, 2021

With the exception of personal information, all comments will become part of the public record of the Study. The Study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Merry Christmas & Happy NEW YEAR

From our family to yours.

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193 Wellington St. W. Chatham 519-352-4141

John Tyrrell

From: Connor Maclsaac
Sent: December 9, 2021 11:04 AM
Cc: John Tyrrell; alia@chatham-kent.ca; Amro Miqdadi; sarahmi@chatham-kent.ca
Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement
Attachments: 20211124 - Notice of Commencement - FINAL.pdf

Dear Sir/Madam,

On behalf of the Chatham-Kent Public Utilities Commission (CK PUC), please find attached the Notice of Study Commencement for the Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area (Schedule B MCEA). The study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

A future Public Information Centre for this project will be held during the study to further introduce the project and present the servicing constraints and opportunities, potential solutions, evaluation criteria, and the proposed sanitary servicing strategy including associated capital projects. Advance notification will be provided prior to the PIC.

At this point in the study, we are requesting any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency or group may have.

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. Please contact the project team members listed on the attached notice for further information on this project.

Regards,



Connor Maclsaac, EPT

ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218

a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1



rvanderson.com

0111
0111
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0111

John Tyrrell

From: Connor Maclsaac
Sent: December 9, 2021 9:44 AM
To: eanotification.swregion@ontario.ca
Cc: John Tyrrell; 'alia@chatham-kent.ca'; Amro Miqdadi; 'sarahmi@chatham-kent.ca'
Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement
Attachments: streamlined_ea_project_information_form-CK PUC-PS.xlsx; 20211124 - Notice of Commencement - FINAL.pdf

Dear Sir / Madam,

On behalf of the Chatham-Kent Public Utilities Commission (CK PUC), please find attached the Notice of Study Commencement and Streamlined EA Project Notification for the Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area (Schedule B MCEA). The study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

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Regards,



Connor Maclsaac, EPT

ENVIRONMENTAL PLANNER, EA & APPROVALS

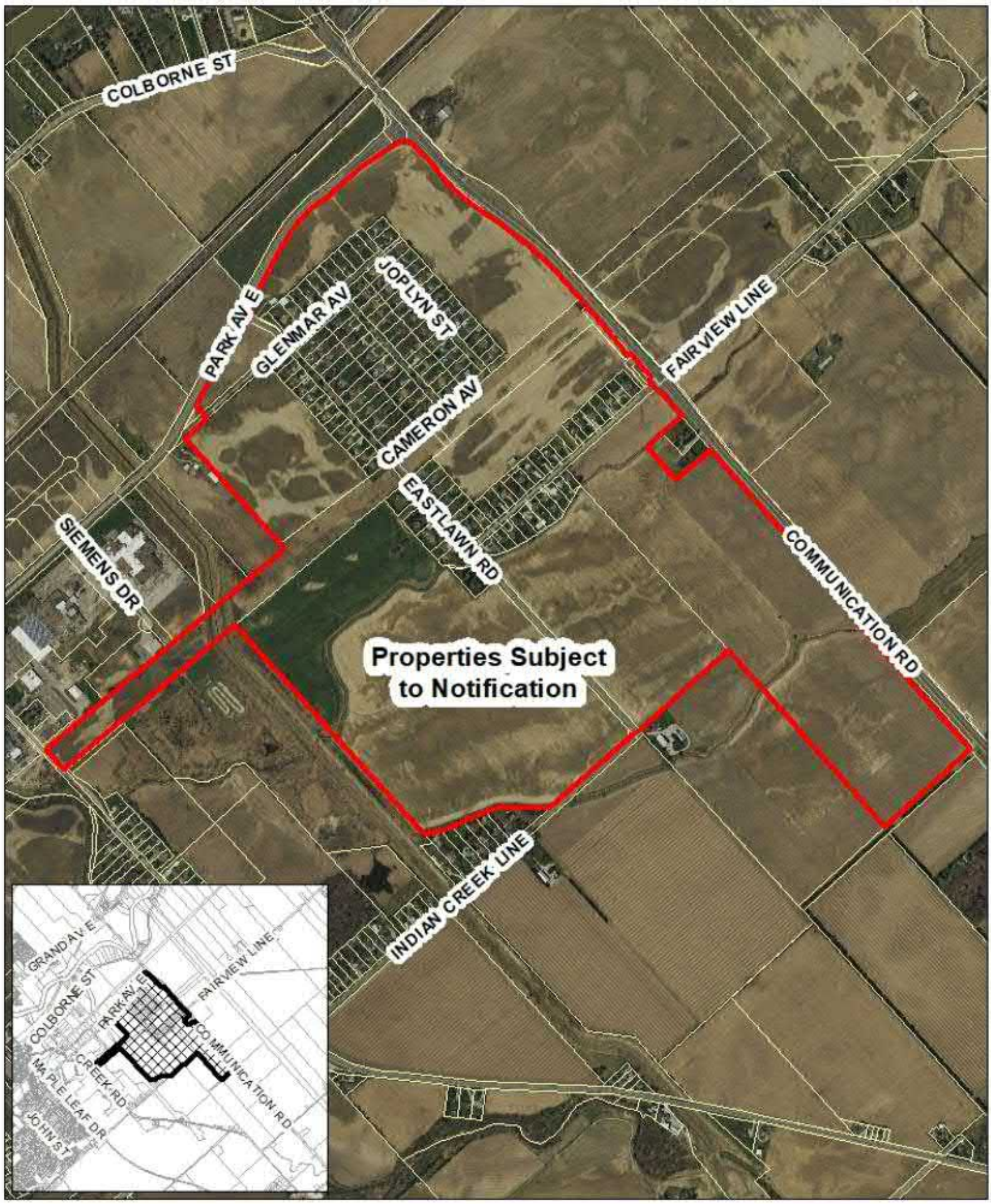
☎ 905 685 5049 ext. 4218

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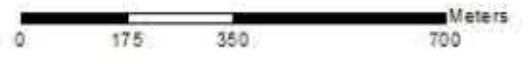


Properties Subject to Notification



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Intro

Municipality of Chatham-Kent general Facebook page.

- Page · Government organization
- 315 King Street West, Chatham, ON, Canada, Ontario
- (519) 360-1998
- ckcommunications@chatham-kent.ca
- chatham-kent.ca
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Photos

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Municipality of Chatham-Kent 42m · 🌐



Chatham-Kent PUC has initiated a Municipal Class Environmental Assessment (MCEA) to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate short-term and long-term future growth demands.

- 🗨️ We want to hear from you!!
- 📺 Share your comments and learn more at <https://www.letstalkchatham-kent.ca/south-lynwood-area...>



- 👍 Like
- 💬 Comment
- ➦ Share



Write a comment...





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Municipality of Chatham-Kent general Facebook page.

- Page** · Government organization
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- (519) 360-1998
- ckcommunications@chatham-kent.ca
- chatham-kent.ca
- Open now

Photos

See All Photos



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- 👍 Like
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Write a comment...



Municipality of Chatham-Kent @MunicCK · 1h Chatham-Kent PUC has initiated a MCEA to review and confirm municipal sanitary servicing and identify requirements for the South Lynnwood Area Sanitary System and Pump Station 14.

We want to hear from you!!

Share your comments and learn more at letstalkchatham-kent.ca/south-lynnwood-...



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Municipality of Chatham-Kent @MunicCK · 22h ❄️ Snowplows are busy making their way around Chatham-Kent today. Check out our snowplow tracker to see their locations in real time!

chatham-kent.plowtracker.com

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Music · Trending jaehyun 326K Tweets

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Chatham, ON, Canada N7M 5L8



- i** The Chatham-Kent Public Utilities Commission's goal is to provide safe and reliable water and wastewater service with environmental integrity to the c... [See more](#)
- i** We focus on customer service, infrastructure improvements and employee development, to meet the demands of our service area. All of our staff are cert... [See more](#)

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- ✉️** [Send message](#)
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- ✉️** ckpuc@chatham-kent.ca
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Chatham-Kent Public Utilities Commission 5m · 🌐

SOUTH LYNNWOOD AREA SANITARY SYSTEM AND PUMP STATION PROJECT – MUNICIPAL CLASS EA - NOTICE OF COMMENCEMENT

For the purpose of fulfilling the provincial environmental regulations, Chatham-Kent PUC has initiated a Municipal Class Environmental Assessment (MCEA) to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate short-term and long-term future growth demands.

Public input and comments are encouraged throughout the study. The Project Team will consult with the public and review agencies during the Public Information Centre.

You can find more information on the Municipality's website at <https://www.letstalkchatham-kent.ca/south-lynnwood-area...>



👍 Like 💬 Comment ➦ Share

Chatham-Kent Public Utilities Commission November 29 at 8:06 AM · 🌐

NORTHEAST CHATHAM-KENT WATER DISTRIBUTION SYSTEM

Suggest Edits

Does this place offer curbside pickup?





Municipality of Chatham-Kent @MunicCK · Dec 9



Chatham-Kent PUC has initiated a MCEA to review and confirm municipal sanitary servicing and identify requirements for the South Lynnwood Area Sanitary System and Pump Station 14.

✳️ We want to hear from you!!

▶️ Share your comments and learn more at letstalkchatham-kent.ca/south-lynnwood-...



let's talk  CK

Share your ideas on the South Lynnwood Area Sanitary System and Pump Station 14.




 **Chatham-Kent**
Public Utilities Commission




munick • Following



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 We want to hear from you!!

 Share your comments and learn more at the South Lynnwood Sanitary Project link in our bio.

1d



1 like

1 DAY AGO



Add a comment...

Post



Chatham-Kent Public Utilities Commission

22h · 🌐



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Comment



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Municipality of Chatham-Kent

Yesterday at 8:40 AM · 🌐



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👥 We want to hear from you!!

🔗 Share your comments and learn more at <https://www.letstalkchatham-kent.ca/south-...> See more



let's talk  CK

**Share your ideas on the
South Lynnwood Area Sanitary
System and Pump Station 14.**



 **Chatham-Kent**
Public Utilities Commission

👍 2

👍 Like

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Chatham-Kent Public Utilities Commission

December 9 at 10:40 AM · 🌐



SOUTH LYNNWOOD AREA SANITARY SYSTEM AND PUMP STATION PROJECT – MUNICIPAL CLASS EA - NOTICE OF COMMENCEMENT

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 Comment

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let's talk  CK


Share your ideas on the South Lynnwood Area Sanitary System and Pump Station 14.




municck • Following



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 We want to hear from you!

 Share your comments and learn more at the South Lynnwood Sanitary Project link in our bio.

4d



2 likes

4 DAYS AGO



Add a comment...

Post



Municipality of Chatham-Kent @MunicCK · Dec 9



Chatham-Kent PUC has initiated a MCEA to review and confirm municipal sanitary servicing and identify requirements for the South Lynnwood Area Sanitary System and Pump Station 14.

✳️ We want to hear from you!!

▶️ Share your comments and learn more at letstalkchatham-kent.ca/south-lynnwood-...

let's talk CK

**Share your ideas on the
South Lynnwood Area Sanitary
System and Pump Station 14.**

Chatham-Kent
Public Utilities Commission





**Chatham Kent Public Utilities Commission
Municipal Class Environmental Assessment
for the
Sanitary System and Pump Station 14
in South Lynnwood Area**

NOTICE OF PUBLIC INFORMATION CENTRE # 1

Background

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the Sanitary System and Pump Station 14 in the South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water and currently supplies water and wastewater services to a population of approximately 89,000 within the Municipality of Chatham-Kent.

This MCEA study will review and confirm municipal wastewater servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 in South Lynnwood Area in order to provide sustainable municipal sanitary sewer service and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting new sewers, pumping stations, and forcemains in the South Lynnwood Area to provide for future residential growth.

Public Information Centre #1

A Public Information Centre (PIC) will be held for the study to present the Problem and Opportunity Statement, background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline.

The CK PUC will be holding an online PIC. This PIC will have materials available starting on June 29, 2022 and will be available for the duration of the study. To access the PIC materials please visit the 'Lets Talk' Chatham Kent (<https://www.letstalkchatham-kent.ca/>) project page at the following address:

<https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

How to Get Involved

Public input is essential to this study. The CK PUC invites anyone with an interest in the study to have an opportunity to provide feedback and help inform the decision-making process. Comments will be received until July 27, 2022 after which the Class EA will be finalized. If you have comments, require further information, or would like to be added to the study's mailing list to receive future notifications, please contact either:

Ali Akl, P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission
Municipality of Chatham - Kent
325 Grand Ave East
Chatham, ON N7L 1W9
alia@chatham-kent.ca
226-312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.
Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
jtyrrell@rvanderson.com
519-681-9916 ext. 5038

This notice first issued on June 27, 2022

With the exception of personal information, all comments will become part of the public record of the Study. The Study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.



Municipality of Chatham-Kent

December 9 at 8:40 AM · 🌐



Chatham-Kent PUC has initiated a Municipal Class Environmental Assessment (MCEA) to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate short-term and long-term future growth demands.

👍 We want to hear from you!!

👉 Share your comments and learn more at <https://www.letstalkchatham-kent.ca/south-...> See more

let's talk  CK

**Share your ideas on the
South Lynnwood Area Sanitary
System and Pump Station 14.**



Chatham-Kent
Public Utilities Commission



2

1 Share

 Like

 Comment

 Share

let's talk 



South Lynnwood Area Sanitary System & Pump Station Project

 Chatham-Kent



municck • Following



municck Chatham-Kent PUC is conducting a Municipal Class Environmental Assessment study to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

A PIC will be held to present the background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline. Public input and comments are essential to this study.

The PIC will be virtual and open for public comment from June 29th, 2022 to July 27th, 2022.

Link to Let's Talk to find more information is in our bio.

4w

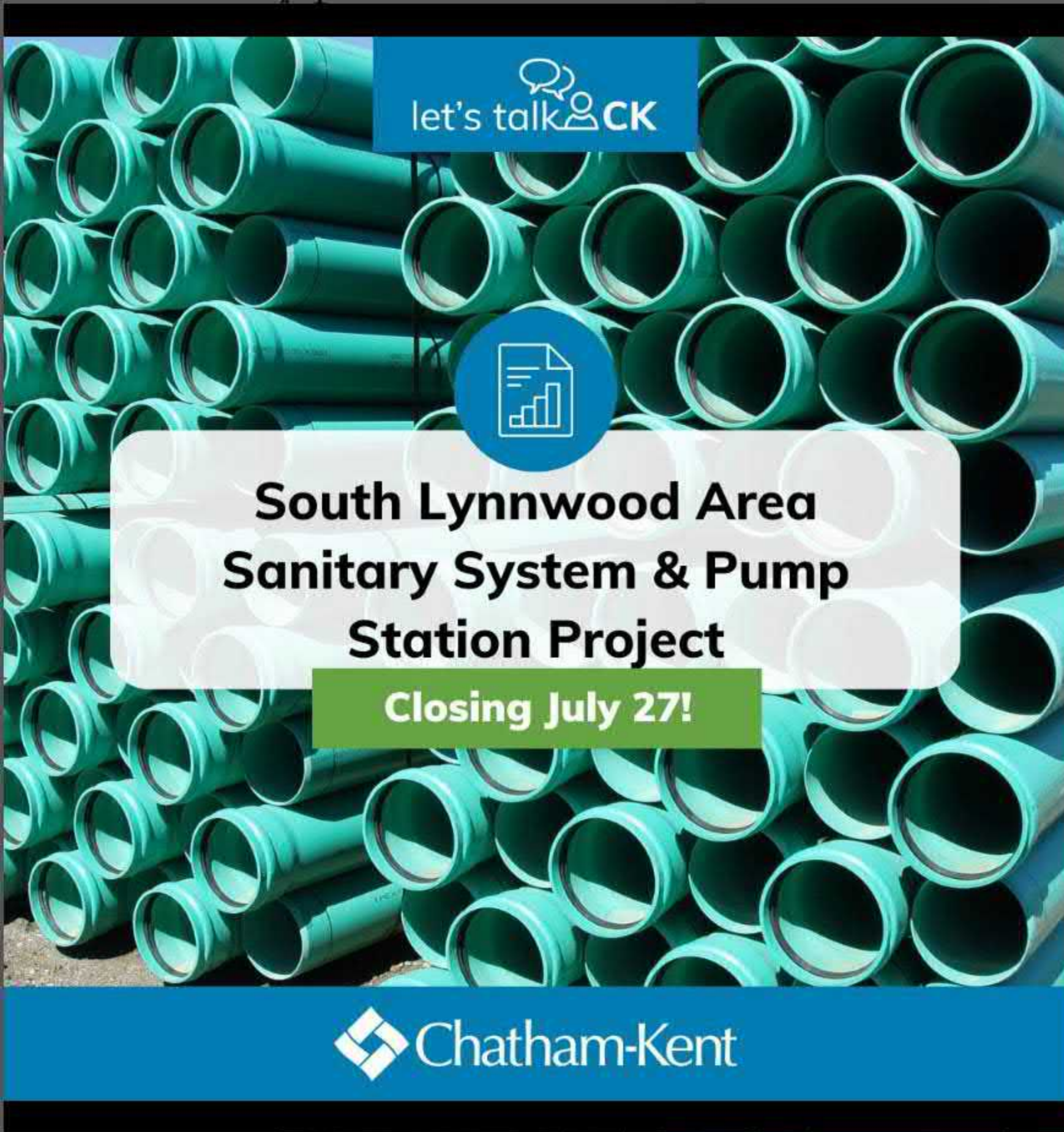



 Liked by [thomas_w_grant](#) and 1 other


JUNE 29

 Add a comment...

Post





let's talk  CK




South Lynnwood Area Sanitary System & Pump Station Project

Closing July 27!

 Chatham-Kent

 municck • Following ⋮





 municck Chatham-Kent PUC is conducting a Municipal Class Environmental Assessment study to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

A PIC will be held to present the background information collected, a review of the servicing strategies being evaluated, present the evaluation criteria, the preliminary preferred solution, and the project timeline. Public input and comments are essential to this study.


The PIC will be virtual and open for public comment until July 27th, 2022.

Link to Let's Talk to find more information is in our bio.

2w

   2 likes 

JULY 7

 Add a comment... Post

let's talk  CK



South Lynnwood Area Sanitary System & Pump Station Project

Closing July 27!

 Chatham-Kent



municck • Following



municck Chatham-Kent PUC is conducting a Municipal Class Environmental Assessment study to review and confirm municipal sanitary servicing and identify project requirements for the South Lynnwood Area Sanitary System and Pump Station 14. The project will provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

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The PIC will be virtual and open for public comment until July 27th, 2022.

Link to Let's Talk to find more information is in our bio.

6d



1 like

6 DAYS AGO



Add a comment...

Post

John Tyrrell

From: Scott MacKinnon
Sent: June 29, 2022 9:00 PM
To: Samya Chams
Cc: RVA Print Room
Subject: RE: PIC Notice via Regular Mail

Categories: Filed by Newforma

Hi Samya,

Just an FYI...Your PIC Notices have been printed, labeled, stamped, AND mailed out today!

Have a great day & an awesome long weekend!



Scott MacKinnon

SENIOR OFFICE SERVICES COORDINATOR

t 416 497 8600 ext. 1255 | m 416 806 1595

a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8



rvanderson.com



SUMMER HOURS: RVA celebrates the summer season from June 3rd to September 2nd. Our offices will be closed each Friday. We will remain available to address any urgent or project related matters. For these matters, please contact mobile where provided.

From: Samya Chams <schams@rvanderson.com>
Sent: Tuesday, June 28, 2022 8:36 AM
To: Scott MacKinnon <SMacKinnon@rvanderson.com>
Cc: RVA Print Room <rvaPrint@rvanderson.com>; Kathy Nguyen <knguyen@rvanderson.com>
Subject: RE: PIC Notice via Regular Mail

Hello Scott,

Thank you so much for all your help.

My apologies I will do that for next time so sorry. Kathy- thank you so much for converting into a word file- sorry for the trouble.

2) yes, please use both contact and roll names on the labels as they are addressed to the heads of the household.

Thank you both so much for your assistance, much appreciated 😊👍

Samya



Samya Chams, B.A (she/her)

ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



rvanderson.com



From: Scott MacKinnon <SMacKinnon@rvanderson.com>

Sent: June 27, 2022 4:50 PM

To: Samya Chams <schams@rvanderson.com>

Cc: RVA Print Room <rvaPrint@rvanderson.com>; Kathy Nguyen <knguyen@rvanderson.com>

Subject: RE: PIC Notice via Regular Mail

Importance: High

Hi Samya,

We will certainly put these together and mail them out for you. Just a couple quick things:

- 1) When you send the address files for these please make sure you send them to the print room as a WORD FILE using the Avery template # 5160 (30 labels per page) instead of just an excel sheet. (Fortunately, Kathy was able to do that for you this time...thank you Kathy!)
- 2) Do the address labels need to include the contact AND roll names on the labels???
- 3) I received your updates PIC form and will print the new one.

Regards,

Scott MacKinnon

Senior Office Services Coordinator

R. V. Anderson Associates Limited

From: Samya Chams <schams@rvanderson.com>

Sent: Monday, June 27, 2022 12:07 PM

To: RVA Print Room <rvaPrint@rvanderson.com>

Subject: PIC Notice via Regular Mail

Hello,

Could we please have the attached PIC notice printed and sent via regular mail to the attached mailing list (last tab). Please have sent out by Wednesday end of day if possible.

Please let me know if you require anything further.

Thank you,

Samya



Samya Chams, B.A (she/her)

ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



rvanderson.com



John Tyrrell

From: Samya Chams
Sent: June 27, 2022 3:26 PM
To: Samya Chams
Cc: John Tyrrell; Ali Akl
Subject: Notice of Public Information Centre #1- Sanitary System and Pump Station 14 in South Lynnwood Area
Attachments: 215945 - CK PUC- PIC Notice 27JUNE2022.pdf
Categories: Filed by Newforma

Dear Sir/Madam,

On behalf of the Chatham Kent Public Utilities Commission (CK PUC), please find attached the Notice of Public Information Centre (PIC) #1 for the Sanitary and Pump Station 14 in South Lynnwood Area Municipal Class Environmental Assessment (MCEA) Study. A webpage for this Environmental Assessment has been created and all the PIC material will be available starting June 29, 2022 and will be available for the duration of the study. This webpage can be found here: <https://www.letstalkchatham-kent.ca/south-lynwood-area-sanitary-system-and-pump-station-project>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Please contact the project team members listed on the attached notice should you require further information on this project.

Thank you,

Samya



Samya Chams, B.A (she/her)
ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021
a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



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APPENDIX 1.3
Agency/Public Responses

Resident Responses

John Tyrrell

From: John Tyrrell
Sent: February 2, 2022 4:00 PM
To: Samya Chams
Subject: FW: South Lynwood Estates - Sanitary System and Pump Station 14

Please add to project 215945's EA files.



John Tyrrell, M.Sc.(Eng.), P.Eng.
SENIOR PROJECT MANAGER/REGIONAL MANAGER

t 519 681 9916 ext. 5038 | m 519-878-7903
a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



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From: Ali Akl <alia@chatham-kent.ca>
Sent: February 2, 2022 3:58 PM
To: John Tyrrell <JTyrrell@rvanderson.com>
Subject: FW: South Lynwood Estates - Sanitary System and Pump Station 14

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Hello John,
Please review the email thread below. can you send me the mailing list that you sent? (The addresses that RVA sent to Canada Post)

Ali Akl, M.Eng., P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission (PUC)
Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347
Cell : 226.229.0568
325 Grand Avenue East
Chatham, Ontario, N7L 1W9
E-mail: alia@chatham-kent.ca
www.chatham-kent.ca



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From: Ali Akl
Sent: February 2, 2022 3:55 PM
To: [REDACTED]
Cc: jtyrell@rvanderson.com; Sarah Minard <sarahmi@chatham-kent.ca>
Subject: RE: South Lynwood Estates - Sanitary System and Pump Station 14

Good afternoon [REDACTED],

I reviewed our distribution list and found your address was included. I will investigate why the notice of commencement was not sent and will ensure the notice for the public information center "PIC" will be sent to you and published in the local papers and social media when ready. The PIC will be ready within the next couple of months. The link to the project website can be found here: <https://www.letstalkchatham-kent.ca/south-lynwood-area-sanitary-system-and-pump-station-project>. A presentation will be available and comment section will be activated when the PIC is online.

Part of the environmental assessment includes collecting local information for the sewer and pump station project. The design phase has not commenced yet. The oversizing of the infrastructure will be calculated from the design phase to meet future demand, based on projected growth, relative to the service life of the infrastructure. A map of the study area is shown on the website above. At this period in the project, the intention is to include voluntary sewer connections for the properties along Eastlawn Road between Cameron Avenue and Glenmar Avenue. A service connection fee has not been calculated yet. Properties not in the area mentioned above would need to have a successful petition to have a sewer constructed fronting their property.

Construction cannot begin until the design and tendering are complete. At the earliest, tendering will be end of Fall 2022.

If you have any questions, feel free to contact me.

Ali Akl, M.Eng., P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission (PUC)
Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347
Cell : 226.229.0568
325 Grand Avenue East
Chatham, Ontario, N7L 1W9
E-mail: alia@chatham-kent.ca
www.chatham-kent.ca



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From: [REDACTED]
Sent: February 2, 2022 2:47 PM
To: Ali AKI <alia@chatham-kent.ca>; jtyrell@rvanderson.com
Subject: South Lynwood Estates - Sanitary System and Pump Station 14

Dear Sirs

Since neither Chatham-Kent nor the CKPUC is aware of the existence of the property owned by [REDACTED], Chatham, Ontario when it comes to notice for planning matters, we are fortunate to have a neighbour who shares information provided to him/her (and to others although we have no actual notice about such others) .

I note in passing that both Chatham-Kent and CKPUC have no trouble in finding Linda Gee when money e.g. municipal taxes and monthly water bills, is owed so her address is obviously available to you.

However, to be perfectly clear, both [REDACTED] and I wish to be added to the mailing list for a study of the above captioned project.

The mailing address for us is

[REDACTED] e
[REDACTED] p
[REDACTED] 1

We understand that the study is to address the needs for the South Lynwood Estates subdivision.

However, will consideration be given for oversizing the pumping station to accommodate property in the area namely residential properties on Eastlawn Road, Cameron Ave., Glenmar Ave., Lynnwood Ave., Joplyn St., and Fairview Line(between Eastlawn Road and Highway 40).

Will consideration be given for sanitary sewers to service the properties referred to in the paragraph preceding and will there be any timeline any such construction?

We look forward to receiving your response.

[REDACTED]

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John Tyrrell

From: John Tyrrell
Sent: January 4, 2022 11:21 AM
To: Connor Maclsaac
Subject: FW: MCEA SOUTH LYNNWOOD

Categories: Resident Comments

FYI and Happy New Year.



John Tyrrell, M.Sc.(Eng.), P.Eng.
SENIOR PROJECT MANAGER/REGIONAL MANAGER

t 519 681 9916 ext. 5038 | m 519-878-7903

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



rvanderson.com



From: Ali Akl <alia@chatham-kent.ca>
Sent: December 22, 2021 9:19 AM
To: [REDACTED]; John Tyrrell <JTyrrell@rvanderson.com>
Cc: Sarah Minard <sarahmi@chatham-kent.ca>
Subject: RE: MCEA SOUTH LYNNWOOD

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

[REDACTED]
Thank you for your comment. It will be forwarded to our consulting engineering firm and included with the Municipal Class Environmental Assessment Project File.

Ali Akl, M.Eng., P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission (PUC)
Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347
Cell : 226.229.0568
325 Grand Avenue East
Chatham, Ontario, N7L 1W9
E-mail: alia@chatham-kent.ca
www.ckpuc.ca
www.chatham-kent.ca



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From: [REDACTED]
Sent: December 21, 2021 3:38 PM
To: Ali AKI <alia@chatham-kent.ca>
Subject: MCEA SOUTH LYNNWOOD

Dear Mr. AKI

Thank you for the recent Notice of Study Commencement for the sanitary system for South Lynnwood and the opportunity to receive future notifications re: this MCEA. I would like to be added to the mailing list for these future updates either by email at [REDACTED] or regular mail at [REDACTED]

As to comments, since this area is to be developed on small lots, a sanitary sewer system will be required. Such a system will be very expensive - the cost of which must be borne by the new developments that will be served by this sanitary system.

I have lived here since [REDACTED] with no issue with my septic tank system. I have no need of this proposed sanitary sewer system and will be opposed to any financial burden being imposed on myself and my property either by general taxation or any local improvement charge. This municipal sewer system is being proposed for the benefit of the developers of the vacant lands in this area. As the beneficiaries of this work, they must be the funders of it.

Thank you for the opportunity to comment on this proposal.

[REDACTED]

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John Tyrrell

From: John Tyrrell
Sent: June 29, 2022 12:15 PM
To: Samya Chams
Subject: FW: South Lynnwood area Sewer study
Attachments: image001.png; image002.png

Please file.



John Tyrrell, M.Sc.(Eng.), P.Eng.
SENIOR PROJECT MANAGER/REGIONAL MANAGER

t 519 681 9916 ext. 5038 | m 519-878-7903
a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



rvanderson.com



From: Ali Akl <alia@chatham-kent.ca>
Sent: June 29, 2022 9:45 AM
To: John Tyrrell <JTyrrell@rvanderson.com>
Cc: Sarah Minard <sarahmi@chatham-kent.ca>
Subject: FW: South Lynnwood area Sewer study

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Good morning John,
Fyi, a comment from a resident below for the EA.

Ali Akl, M.Eng., P.Eng., PMP.
Project Engineer
Chatham-Kent Public Utilities Commission (PUC)
Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347
Cell : 226.229.0568
325 Grand Avenue East
Chatham, Ontario, N7L 1W9
E-mail: alia@chatham-kent.ca
www.chatham-kent.ca



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From: Eric Fitzgerald [REDACTED]
Sent: June 29, 2022 9:38 AM
To: Ali Akl <alia@chatham-kent.ca>
Cc: Sarah Minard <sarahmi@chatham-kent.ca>
Subject: Re: South Lynnwood area Sewer study

Good morning,

Thanks for sharing this information. I took time to watch the video presentation. I must say I don't agree with everything that is found in the report. I'm sure the change of ownership of the proposed subdivision sparked the idea to discuss sewers in our area. My personal thoughts are not only as a [REDACTED] years but as a homeowner in Lynnwood subdivision is if the developer wants sewers they should go ahead and pay for them at their own expense. I think this is typical in the development of other areas throughout Chatham Kent over the years. The idea of spending \$20 million plus dollars so we can continue to flush our toilets as we do daily doesn't make much Financial sense to me. As you know real estate is in a steep contraction at the moment which will probably last for a reasonable period of time. I believe there are much more urgent needs to be addressed throughout our community than this project. The need for a new subdivision at this moment does not seem to exist. After living in this lovely quiet subdivision we are strongly considering selling our home and moving elsewhere if the project moves forward. Thanks for reading this email. I hope you have an enjoyable summer.

[REDACTED]

[REDACTED]

[REDACTED]

I'm never too busy for your referrals

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

On Mon., Jun. 27, 2022, 2:31 p.m. Ali Akl, <alia@chatham-kent.ca> wrote:

Hello,

This email is intended to update you that the Public Information Centre (PIC) video and slides for the South Lynnwood Pump Station project can now be found on the website <https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project> .The comment section will be live on June 29.

The Notice for this PIC is being mailed out to stakeholders on the project mailing list, published in local newspapers, and online.

Ali Akl, M.Eng., P.Eng., PMP.

Project Engineer

Chatham-Kent Public Utilities Commission (PUC)

Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347

Cell : 226.229.0568

325 Grand Avenue East

Chatham, Ontario, N7L 1W9

E-mail: alia@chatham-kent.ca

www.chatham-kent.ca



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

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From: Ali Akl <alia@chatham-kent.ca>

Sent: December 15, 2021 3:59 PM

[REDACTED]
Cc: Sarah Minard <sarahmi@chatham-kent.ca>

Subject: RE: South Lynnwood area Sewer study

[REDACTED]

At this time the consultant is conducting an environmental assessment. A public information centre will be scheduled early 2022. The project website can be found here. <https://www.letstalkchatham-kent.ca/south-lynwood-area-sanitary-system-and-pump-station-project>

The scope of the project is to construct a gravity sewer on Eastlawn Road that will connect to a sanitary pump station (location to be determined).

Ali Akl, M.Eng., P.Eng., PMP.

Project Engineer

Chatham-Kent Public Utilities Commission (PUC)

Municipality of Chatham-Kent

Phone: 226.312.2023 x 4347

Cell : 226.229.0568

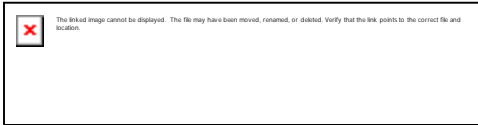
325 Grand Avenue East

Chatham, Ontario, N7L 1W9

E-mail: alia@chatham-kent.ca

www.ckpuc.ca

www.chatham-kent.ca



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From: [REDACTED]
Sent: December 15, 2021 3:46 PM
To: Ali Akl <alia@chatham-kent.ca>
Subject: South Lynnwood area Sewer study

Hello Ali,

I recently received a notice in the mail about the study that you are going to do in my area in regards to the possibility have extending sewer connections to South Lynnwood. As a long-term resident here as well as a [REDACTED] I have a keen interest in protecting the integrity of the neighbourhood. Please keep me advised of any new developments, thank you.

[REDACTED]

[REDACTED]
[REDACTED]

[REDACTED]

[REDACTED]

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John Tyrrell

From: [REDACTED]
Sent: July 13, 2022 5:15 PM
To: John Tyrrell
Subject: sewer lines in south Lynnwood

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

I am writing you in response to a letter we received from chatham kent public utilities commission. The letter states that a study is being done for sewers. The existing residents do not need sewer lines and we do not need them. the developers should be paying for the study and the sewer lines not the existing home owners. 20 years ago the residents of Lynnwood paid for the developers water lines and the developers paid nothing. At that time their lots were going to be 1/2 acer they told us that no sewer lines would ever be needed. The developers and the municipality always had planned on much smaller lots. As a result of this lying cheating and stealing they coming after us to pay for their sewer lines. If they didn't cheat us their would be no need for sewer lines. This is defiantly corruption, we are passing around a book titled "How to lie with statistics "Bill Gates bible. This is like the Government in the Netherlands with their boot on the necks of the farmers. We watched Trudeau's regime trample and beat Canadian people down in Ottawa. DO NOT INCLUDE US IN THIER SEWER LINE. The greedy developers can pay for their sewer lines.

Please sign the guestbook to ensure you are added to our project mailing list.

You need to be signed in to comment in this Guest Book. [Click here to Sign In](#) or [Register to get involved](#)

From what I can see this is not a proper studied this has been rushed through to fit the narrative and the outcome that the city/planning and developer's are after, this so called development is not only going to destroy our way of life in Lynnwood but it was passed by the OMB at the time with information from the city council and the developer at that time was incorrect and untrue, the broke one of the main laws in the planning act....I have tried since November when we found out what was actually happening to address many issues with some councillors but the refuse to get it done... the taxpayers of this municipality do not need to pay for a pump station or any part of this project...

This is just the beginning!!!!

[Redacted], about 17 hours ago

leave the existing home owners out of this project. We do not need sewer lines, have developers pay their own way. we paid for their water, we don't like the idea of building small houses on tiny lots, that is reducing our property values.

[Redacted], 14 days ago

Eastlawn Road has only just been fully resurfaced. Digging up the road again only seems justifiable if residents on Eastlawn were interested in connecting to a gravity sewer, and the mood at the previous public meeting about this new development seemed categorically opposed to that. Could the sewer for the new development be run along the hydro easement to the drainage channel and then up the path alongside the channel to Park Ave?

[Redacted], 24 days ago

We would prefer to have the future expansion of the system be standalone with no changes made or required of the existing residential infrastructure services

[Redacted], 24 days ago

Would it be possible to look into extending the project, or even future plans to take municipal water a little further down Communication Rd? Service everyone along Communication and up to Old Pine hurst Line?

[Redacted], 28 days ago



South Lynnwood Area Saniary System & Pump Station Project



👍👏 4

6 Comments 3 Shares

👍 Like

💬 Comment

🔗 Share

Oldest ▼

Is there any timeline on fixing the pot hole on Vanier near Donalds?

Like Reply 4m

Municipality of Chatham-Kent
Good day. Have you reported the pothole to Customer Service? If not, please contact them at 3-1-1 or 519-360-1998 with the exact address and they can issue a ticket for the pothole.

Like Reply 5m

Thanks. I can try that but it looks as though it is an 'unfinished' job that was started over a year ago and abandoned for some reason. I have a feeling the powers that be already know. It's large and seems to be deteriorating.

Like Reply 3m

Reply to [redacted]

The recommendation in the study will cost 20 million plus dollars. All because some one wants to develop a subdivision beside the Hydro lines. This money would be much better spent elsewhere in CK to address more pressing issues.

Like Reply 4m

👤 Top ten
The train tracks near the train station in chatham are really bad.. that should be fixed

Like Reply 3m

Here we go again!

Like Reply 2m

First Nation Responses

John Tyrrell

From: Courtney Jackson <cjackson@aamjiwnaang.ca>
Sent: July 13, 2022 4:23 PM
To: Samya Chams
Cc: John Tyrrell; alia@chatham-kent.ca
Subject: RE: Notice of Public Information Centre #1- Sanitary System and Pump Station 14 in South Lynnwood Area

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Hi Samya Chams,

Thank you for the information provided regarding this project. I have recorded it into our log system and the information will be sent to Aamjiwnaang First Nation's Environment Committee for review on July 19, 2022. I will contact you after July 19th if they have any questions or concerns.

Sincerely,
Courtney Jackson

Courtney Jackson

Consultation Worker

Aamjiwnaang First Nation

978 Tashmoo Ave.

Sarnia, ON

N7T 7H5

Tel: (519) 336-8410

Fax: (519) 336-0382

<https://www.facebook.com/AamjiwnaangEnvironment>

www.aamjiwnaang.ca

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From: Samya Chams <schams@rvanderson.com>
Sent: Monday, June 27, 2022 3:26 PM
To: Samya Chams <schams@rvanderson.com>
Cc: John Tyrrell <JTyrrell@rvanderson.com>; Ali Akl <alia@chatham-kent.ca>
Subject: Notice of Public Information Centre #1- Sanitary System and Pump Station 14 in South Lynnwood Area

Dear Sir/Madam,

On behalf of the Chatham Kent Public Utilities Commission (CK PUC), please find attached the Notice of Public Information Centre (PIC) #1 for the Sanitary and Pump Station 14 in South Lynnwood Area Municipal Class Environmental Assessment (MCEA) Study. A webpage for this Environmental Assessment has been created and all the PIC material will be available starting June 29, 2022 and will be available for the duration of the study. This webpage can be found here: <https://www.letstalkchatham-kent.ca/south-lynnwood-area-sanitary-system-and-pump-station-project>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Please contact the project team members listed on the attached notice should you require further information on this project.

Thank you,

Samya



Samya Chams, B.A (she/her)

ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



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CHIPPEWAS OF THE THAMES FIRST NATION

December 14, 2021

VIA EMAIL

Ali AkI
Project Engineer
Chatham-Kent Public Utilities Commission
Municipality of Chatham-Kent
325 Grand Ave East
Chatham, ON N7L 1W9

RE: South Lynnwood Area Sanitary System and Pump Station 14 MCEA

Dear Ali,

We have reviewed information concerning the aforementioned project. The proposed project is located within the McKee Treaty Area to which Chippewas of the Thames First Nation (COTTFN) is a signatory. The project is also located within the Big Bear Creek Additions to Reserve Land Selection Area as well as COTTFN's Traditional Territory.

After reviewing the project information provided, we have identified minimal concerns with the information that you have presented to us at this time. We ask that if there are any substantive changes to the project plans that you keep us informed by sending an electronic notification to consultation@cottfn.com. If there is an Archaeology Assessment conducted, we require notification and the opportunity to actively participate by sending First Nation Field Liaisons on behalf of this First Nation.

We look forward to continuing this open line of communication. To implement meaningful consultation, COTTFN has developed its own protocol - a document and a process that will guide positive working relationships. We would be happy to meet with you to review COTTFN's Consultation Protocol.

As per 'Appendix D' of the Wiindmaagewin attached is invoice 0217. Please do not hesitate to contact me if you need further clarification of this letter.

Sincerely,

Fallon Burch
Consultation Coordinator
Chippewa of the Thames First Nation
consultation@cottfn.com

c: John Tyrrell, Senior Project Manger/Regional Manager, R.V. Anderson Associates Limited

Government Agency and Utility Responses

John Tyrrell

From: ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>
Sent: December 20, 2021 6:35 PM
To: Connor MacIsaac
Cc: John Tyrrell; alia@chatham-kent.ca; Amro Miqdadi; sarahmi@chatham-kent.ca
Subject: RE: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement

Categories: Technical Agency Comments, Filed by Newforma

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Hello,

This is a request to please remove Transport Canada contact Tera Yochim Hope (tera.yochimhope@tc.gc.ca) from your mailing list, and please send all future Class EA related inquiries to EnviroOnt@tc.gc.ca.

Please note Transport Canada does not require receipt of all individual or Class EA related notifications. We are requesting project proponents self-assess if their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at www.tbs-sct.gc.ca/dfpr-rbif/; and
2. Will require approval and/or authorization under any Acts administered by Transport Canada* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project, will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 82 of the *Impact Assessment Act, 2019*.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded *electronically* to: EnviroOnt@tc.gc.ca with a brief description of Transport Canada's expected role.

*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- *Canadian Navigable Waters Act (CNWA)* – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863.
- *Railway Safety Act (RSA)* – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about

the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985.

- *Transportation of Dangerous Goods Act (TDGA)* – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868.
- *Aeronautics Act* – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. The *Land Use In The Vicinity of Aerodromes* publication recommends guidelines for and uses in the vicinity of aerodromes, available at: <https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Enquires can be directed to tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

Environmental Assessment Program, Ontario Region
Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5
EnviroOnt@tc.gc.ca / Facsimile : (416) 952-0514 / TTY: 1-888-675-6863

Programme d'évaluation environnementale, Région de l'Ontario
Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5
EnviroOnt@tc.gc.ca / télécopieur: (416) 952-0514

From: Connor MacIsaac <cmaclsaac@rvanderson.com>

Sent: Tuesday, December 14, 2021 4:32 PM

Cc: John Tyrrell <JTyrrell@rvanderson.com>; alia@chatham-kent.ca; Amro Miqdadi <AMiqdadi@rvanderson.com>; sarahmi@chatham-kent.ca

Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement

Dear Sir/Madam,

On behalf of the Chatham-Kent Public Utilities Commission (CK PUC), please find attached the Notice of Study Commencement for the Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area (Schedule B MCEA). The study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

A future Public Information Centre for this project will be held during the study to further introduce the project and present the servicing constraints and opportunities, potential solutions, evaluation criteria, and the proposed sanitary

servicing strategy including associated capital projects. Advance notification will be provided prior to the PIC.

At this point in the study, we are requesting any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency or group may have.

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. Please contact the project team members listed on the attached notice for further information on this project.

Regards,



Connor MacIsaac, EPt

ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218

a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1



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John Tyrrell

From: Badali, Mark (MECP) <Mark.Badali1@ontario.ca>
Sent: July 4, 2022 8:43 AM
To: Samya Chams
Cc: John Tyrrell; Ali Akl
Subject: RE: Notice of Public Information Centre #1- Sanitary System and Pump Station 14 in South Lynnwood Area
Attachments: Instructions for Providing Class EA Notices to the Ministry of the Environment Conservation and Parks.pdf

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Hi Samya,

Thank you for sharing this Notice of Public Information Centre. I believe you had also sent this notice to my MECP colleague at Annamaria.Cross@ontario.ca.

Moving forward, please do not send notices to other MECP contacts besides the appropriate Regional Email address (eanotification.swregion@ontario.ca) and myself, the Regional Environmental Planner assigned to this file. The reason MECP implemented the regional email address notification procedure is to create certainty for proponents/consultants on where to send notices and to avoid situations where proponents send notices to multiple contacts in the MECP which complicates internal processes unnecessarily.

For your reference, I have attached MECP's EA notification procedure.

Thank you,

Mark Badali ([he/him](#))

Regional Environmental Planner (REP) – Southwest Region
Project Review Unit | Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks
Mark.Badali1@ontario.ca | (416) 457-2155

From: Samya Chams <schams@rvanderson.com>
Sent: June 27, 2022 3:26 PM
To: Samya Chams <schams@rvanderson.com>
Cc: John Tyrrell <JTyrrell@rvanderson.com>; Ali Akl <alia@chatham-kent.ca>
Subject: Notice of Public Information Centre #1- Sanitary System and Pump Station 14 in South Lynnwood Area

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The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Please contact the project team members listed on the attached notice should you require further information on this project.

Thank you,

Samya



Samya Chams, B.A (she/her)

ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



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John Tyrrell

From: Romeo, Laura (MHSTCI) <Laura.Romeo@ontario.ca>
Sent: January 12, 2022 10:59 AM
To: John Tyrrell; alia@chatham-kent.ca
Cc: Barboza, Karla (MHSTCI); Connor MacIsaac
Subject: RE: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement
Attachments: 2022-01-12_Chatham Kent Public Utilities Commission - MCEA Sanitary System and Pump Station - MHSTCI Ltr.pdf
Categories: Technical Agency Comments

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Good morning John,

Please find attached the MHSTCI comments on the above referenced Notice of Study Commencement. Please do not hesitate to contact me should you have any questions or concerns.

Kind regards,
Laura

Laura Romeo | Heritage Planner (A)
Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit
Ministry of Heritage, Sport, Tourism and Culture Industries
Laura.Romeo@ontario.ca

From: Connor MacIsaac <cmaclsaac@rvanderson.com>
Sent: December-09-21 11:04 AM
Cc: John Tyrrell <JTyrrell@rvanderson.com>; alia@chatham-kent.ca; Amro Miqdadi <AMiqdadi@rvanderson.com>; sarahmi@chatham-kent.ca
Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement

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At this point in the study, we are requesting any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency or group may have.

Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. Please contact the project team members listed on the attached notice for further information on this project.

Regards,



Connor MacIsaac, EPT

ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218

a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1



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January 12, 2022

EMAIL ONLY

John Tyrrell
Senior Project Manager/Regional Manager
R.V. Anderson Associates Limited
557 Southdale Road East, Suite 200
London, ON N6E 1A2
jtyrrell@rvanderson.com

MHSTCI File : 0015931
Proponent : Chatham-Kent Public Utilities Commission
Subject : Notice of Commencement - Schedule B MCEA
Project : Sanitary System and Pump Station 14
Location : South Lynnwood Area, Municipality of Chatham-Kent

Dear Mr. John Tyrrell:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Commencement for the above-referenced project. MHSTCI's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and
- cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on known (previously recognized) and potential cultural heritage resources.

Project Summary

The Chatham-Kent Public Utilities Commission (CK PUC) has initiated a Municipal Class Environmental Assessment (MCEA) study for the construction of Sanitary System and Pump Station 14 in South Lynnwood Area. The CK PUC is responsible for the treatment and delivery of safe drinking water, collection and treatment of sewage in the Municipality of Chatham-Kent. This MCEA study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands. Specific to this study, the MCEA will look at siting a new sewage pumping station, new inlet sanitary sewers in the South Lynnwood area, and outlet forcemain and gravity sewers connection to the community of Chatham's sewage collection system.

Identifying Cultural Heritage Resources

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation.

Archaeological Resources

This EA project may impact archaeological resources and should be screened using the MHSTCI [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological](#)

Potential to determine if an archaeological assessment is needed. MHSTCI archaeological sites data are available at archaeology@ontario.ca.

If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *Ontario Heritage Act (OHA)*, who is responsible for submitting the report directly to MHSTCI for review.

Built Heritage Resources and Cultural Heritage Landscapes

The MHSTCI [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether this EA project may impact built heritage resources and/or cultural heritage landscapes.

A Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment will be undertaken for the entire study area during the planning phase and will be summarized in the EA Report. This study will:

1. Describe the existing baseline cultural heritage conditions within the study area by identifying all known or potential built heritage resources and cultural heritage landscapes, including a historical summary of the study area. MHSTCI has developed screening criteria that may assist with this exercise: [Criteria for Evaluating for Potential Built Heritage Resources and Cultural Heritage Landscapes](#).
2. Identify preliminary potential project-specific impacts on the known and potential built heritage resources and cultural heritage landscapes that have been identified. The report should include a description of the anticipated impact to each known or potential built heritage resource or cultural heritage landscape that has been identified.
3. Recommend measures to avoid or mitigate potential negative impacts to known or potential built heritage resources and cultural heritage landscapes. The proposed mitigation measures are to inform the next steps of project planning and design.

Given that this project covers a large study area, MHSTCI recommends that the Cultural Heritage Report is carried out so that step 1 described above is undertaken early in the planning process. Then, steps 2 and 3 can be undertaken once the preferred alternatives have been selected.

Cultural Heritage Reports will be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, historical societies and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to them.

Environmental Assessment Reporting

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this EA project, and provide them to MHSTCI before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank you for consulting MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, do not hesitate to contact me.

Sincerely,

Laura Romeo
Heritage Planner (A)
laura.romeo@ontario.ca

Copied to: Ali Akl, Project Engineer, Chatham-Kent Public Utilities Commission, Municipality of
Chatham-Kent
Karla Barboza, Team Lead (A), Heritage Planning Unit, MHSTCI

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

John Tyrrell

From: MNRF Ayl Planners (NDMNRF) <MNRF.Ayl.Planners@ontario.ca>
Sent: December 17, 2021 8:56 AM
To: John Tyrrell; alia@chatham-kent.ca
Cc: Connor Maclsaac
Subject: RE: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement
Attachments: image001.wmz; 20211124 - Notice of Commencement - FINAL.pdf; NHGuide_MNRF_2019-04-01.pdf
Categories: Technical Agency Comments

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Mines, Natural Resources
and Forestry

Ministry of Northern Development, Ministère du Développement du Nord,
des Mines, des Richesses naturelles et des Forêts

December 17, 2021

Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement

The Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) received the notice for the Sanitary System and Pump Station 14 in South Lynnwood Area project. Thank you for circulating this information to our office, however, please note that we have not completed a screening of natural heritage or other resource values for the project at this time. Please also note that it is your responsibility to be aware of and comply with all relevant federal or provincial legislation, municipal by-laws or other agency approvals.

This response provides information to guide you in identifying and assessing natural features and resources as required by applicable policies and legislation, and engaging with the Ministry for advice as needed.

Natural Heritage & Endangered Species Act

In order to provide the most efficient service possible, the attached Natural Heritage Information Request Guide has been developed to assist you with accessing natural heritage data and values from convenient online sources.

It remains the proponent's responsibility to complete a preliminary screening for each project, to obtain available information from multiple sources, to conduct any necessary field studies, and to consider any potential environmental impacts that may result from an activity. We wish to emphasize the need for the proponents of development activities to complete screenings prior to contacting the Ministry or other agencies for more detailed technical information and advice.

The Ministry continues to work on updating data housed by Land Information Ontario and the Natural Heritage Information Centre, and ensuring this information is accessible through online resources. Species at risk data is regularly being updated. To ensure access to reliable and up to date information, please contact the Ministry of the Environment, Conservation and Parks at SAROntario@ontario.ca.

Petroleum Wells & Oil, Gas and Salt Resource Act

There may be petroleum wells within the proposed project area. Please consult the Ontario Oil, Gas and Salt Resources Library website (www.ogsrlibrary.com) for the best known data on any wells recorded by NDMNRF. Please reference the 'Definitions and Terminology Guide' listed in the publications on the Library website in order to better understand the well information available. Any oil and gas wells in your project area are regulated by the *Oil, Gas and Salt Resource Act*, and the supporting regulations and operating standards. If any unanticipated wells are encountered during development of the project, or if the proponent has questions regarding petroleum operations, the proponent should contact the Petroleum Operations Section at POSRecords@ontario.ca or 519-873-4634.

Public Lands Act & Lakes and Rivers Improvement Act

Some projects may be subject to the provisions of the *Public Lands Act* or the *Lakes and Rivers Improvement Act*. Please review the information on NDMNRF's web pages provided below regarding when an approval is required or not. Please note that many of the authorizations issued under the *Lakes and Rivers Improvement Act* are administered by the local Conservation Authority.

- For more information about the *Public Lands Act*: <https://www.ontario.ca/page/crown-land-work-permits>
- For more information about the *Lakes and Rivers Improvement Act*: <https://www.ontario.ca/document/lakes-and-rivers-improvement-act-administrative-guide>

After reviewing the information provided, if you have not identified any of NDMNRF's interests stated above, there is no need to circulate any subsequent notices to our office.

If you have any questions or concerns, please feel free to contact me.

Sincerely,
Karina

Karina Černiavskaja | District Planner
Ministry of Northern Development, Mines, Natural Resources and Forestry
MNRF.Ayl.Planners@ontario.ca

As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats.

From: Connor MacIsaac <cmacisaac@rvanderson.com>

Sent: December 14, 2021 4:32 PM

Cc: John Tyrrell <JTyrrell@rvanderson.com>; alia@chatham-kent.ca; Amro Miqdadi <AMiqdadi@rvanderson.com>; sarahmi@chatham-kent.ca

Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement

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Public input is essential to this project. The CK PUC invites anyone with an interest in the project to have an opportunity to provide feedback and help inform the decision-making process. Please contact the project team members listed on the attached notice for further information on this project.

Regards,



Connor MacIsaac, EPT

ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218

a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1



rvanderson.com



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Markup Response Form

Application Date December 9, 2021 **Applicant:** R.V Andersen
Date Returned: January 13, 2022
Rogers Ref. No.: G216396 **Applicant Ref. No.:** N/A
Location / Municipality: South Lynwood Area

**Rogers Communications has reviewed your drawing(s) as requested.
Our comments follow below with an "X" indicating Rogers' stance on your proposed plan.**

Please inform Rogers Communications a minimum of 6 - 12 months in advance of the proposed construction schedule in order to coordinate our plant relocation.

Contact Ontario One Call at 1-800-400-2255 or www.on1call.com at least 5 business days before beginning work to obtain utility locates. Hand dig / Vac truck when crossing, or within 1.0m of existing Rogers plant. Plant is to approximation.

Comments:

- Markup Only** Not for PUCC Approval
- For your Reference** Rogers Communications currently has existing plant as marked on your drawing. Our standard depth in this municipality is: 1m.
Please ensure you maintain clearances of 0.3m vertically and 0.6m horizontally.
- No Conflict** Rogers Communications currently does not possess existing plant in the area indicated on your attached plans.
- CONFLICT** Your proposed construction appears to encroach within existing Rogers Communications plant. Please ensure you maintain clearances of 0.3 m vertically and 1 m horizontally. For hand dig maintain 0.6 m and for directional bore maintain 1.0 m horizontally. Please relocate your proposed construction to allow adequate clearance.

CAUTION NOTES:

- Use vactruck and expose ducts, maintain minimum of 0.6m clearance.
- Rogers Communications has aerial plant in this area, as it is indicated on the attached plans.
- Fiber Optic Cable is present in the area of your proposed construction. Please obtain locates and maintain minimum 1.0m/1.0m clearance.
- Proposed Fiber Optic Cable in a joint use duct structure .
- Plant currently under construction.

John Tyrrell

From: Valerie Towsley <Valerie.Towsley@ltvca.ca>
Sent: July 11, 2022 3:06 PM
To: alia@chatham-kent.ca; John Tyrrell; Samya Chams
Cc: Jason Homewood; Connor Wilson; Emily Brammer
Subject: Chatham Kent Public Utilities Commission - Sanitary System and Pump Station 14 (Lynnwood)

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Good afternoon

The Conservation Authority is responsible for addressing the Natural Hazard Section of the Provincial Planning Policy Statement as well as O. Reg. 152/06, Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation under the Conservation Authorities Act, R.S.O. 1990, c. C.27. After reviewing our mapping, staff determined that the entire project area in question is subject to the Authority's Development and Alteration to Watercourses portion of the regulations. The issue of concern in this area is the Thames River, stable slopes, flooding and erosion.

The Lynnwood and surrounding lands are completely located within a flood prone area. The lands are subject to flooding under regulatory storm conditions (e.g. ice jam floods on the Thames River, back up flooding during a spring freshet event). An application from this office is required prior to any works/construction/site alteration taking place within the regulated area. This includes construction of structures, parking lots, drainage outlets, infrastructure, bank alteration, accessory structures, etc.

Please keep us posted on the progress of this proposal, and circulate this office on any plans / documents for review purposes. Thanks in advance.

Valerie Towsley
Watershed Resource Planner
Lower Thames Valley Conservation Authority
100 Thames Street
Chatham, Ontario
N7L 2Y8
Phone: 519-354-7310 Ext.: 226
Fax: 519-352-3435
E-mail: Valerie.Towsley@ltvca.ca



Web site: www.ltvca.ca



'Common sense and sense of humor are the same thing, moving at different speeds. A sense of humor is just common sense dancing.' William James (1842-1910)

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Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

July 12, 2022

Re: Sanitary System and Pump Station 14 in South Lynnwood Area

Attention:
Ali Akl, M.Eng., P.Eng., PMP
Project Manager
Chatham-Kent Public Utilities Commission

Thank you for sending us notification regarding (Sanitary System and Pump Station 14 in South Lynnwood Area). In our preliminary assessment, we have confirmed that Hydro One has existing high voltage Transmission facilities within your study area. At this time, we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

In addition to the existing infrastructure mentioned above, the applicable transmission corridor may have provisions for future lines or already contain secondary land uses (e.g., pipelines, watermains, parking). Please take this into consideration in your planning.

Also, we would like to bring to your attention that should (Sanitary System and Pump Station 14 in South Lynnwood Area) result in a Hydro One station expansion or transmission line replacement and/or relocation, an Environmental Assessment (EA) will be required as described under the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016). This EA process would require a minimum of 6 months for a Class EA Screening Process (or up to 18 months if a Full Class EA were to be required) to be completed. Associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code. If triggered, Hydro One will rely on studies completed as part of the EA you are current undertaking.

Consulting with Hydro One on such matters during your project's EA process is critical to avoiding conflicts where possible or, where not possible, to streamlining processes (e.g., ensuring study coverage of expansion/relocation areas within the current EA). Once in receipt of more specific project information regarding the potential for conflicts (e.g., siting, routing), Hydro One will be in a better position to communicate objections or not objections to alternatives proposed.

If possible at this stage, please formally confirm that Hydro One infrastructure and associated rights-of-way will be completely avoided, or if not possible, allocate appropriate lead-time in your project schedule to collaboratively work through potential conflicts with Hydro One, which ultimately could result in timelines identified above.

In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction activities must maintain the electrical clearance from the transmission line conductors as specified in the Ontario Health and Safety Act for the respective line voltage.

Be advised that any changes to lot grading or drainage within, or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

We reiterate that this message does not constitute any form of approval for your project. Please note that your project may require you to submit a Property Management Proposal (PMP) for Hydro One to fully assess the impact to our assets. To learn more about this process please visit [Secondary Land Uses \(hydroone.com\)](http://hydroone.com)

Sent on behalf of,

**Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.**



Hydro One Networks Inc
483 Bay St
Toronto, ON

January 05, 2022

Re: Sanitary System and Pump Station 14 in South Lynnwood Area

Attention:

Ali Akl, M.Eng., P.Eng., PMP
Project Manager
Chatham-Kent Public Utilities Commission

Thank you for sending us notification regarding (Sanitary System and Pump Station 14 in South Lynnwood Area). In our preliminary assessment, we have confirmed that Hydro One has existing high voltage Transmission facilities within your study area (see map attached). At this time we do not have sufficient information to comment on the potential resulting impacts that your project may have on our infrastructure. As such, we must stay informed as more information becomes available so that we can advise if any of the alternative solutions present actual conflicts with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project.

In addition to the existing infrastructure mentioned above, the applicable transmission corridor may have provisions for future lines or already contain secondary land uses (e.g., pipelines, watermains, parking). Please take this into consideration in your planning.

Also, we would like to bring to your attention that should (Sanitary System and Pump Station 14 in South Lynnwood Area) result in a Hydro One station expansion or transmission line replacement and/or relocation, an Environmental Assessment (EA) will be required as described under the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016). This EA process would require a minimum of 6 months for a Class EA Screening Process (or up to 18 months if a Full Class EA were to be required) to be completed. Associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code. If triggered, Hydro One will rely on studies completed as part of the EA you are current undertaking.

Consulting with Hydro One on such matters during your project's EA process is critical to avoiding conflicts where possible or, where not possible, to streamlining processes (e.g., ensuring study coverage of expansion/relocation areas within the current EA). Once in receipt of more specific project information regarding the potential for conflicts (e.g., siting, routing), Hydro One will be in a better position to communicate objections or not objections to alternatives proposed.

If possible at this stage, please formally confirm that Hydro One infrastructure and associated rights-of-way will be completely avoided, or if not possible, allocate appropriate lead-time in your project schedule to collaboratively work through potential conflicts with Hydro One, which ultimately could result in timelines identified above.

In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction activities must maintain the electrical clearance from the transmission line conductors as specified in the Ontario Health and Safety Act for the respective line voltage.

Be advised that any changes to lot grading or drainage within, or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

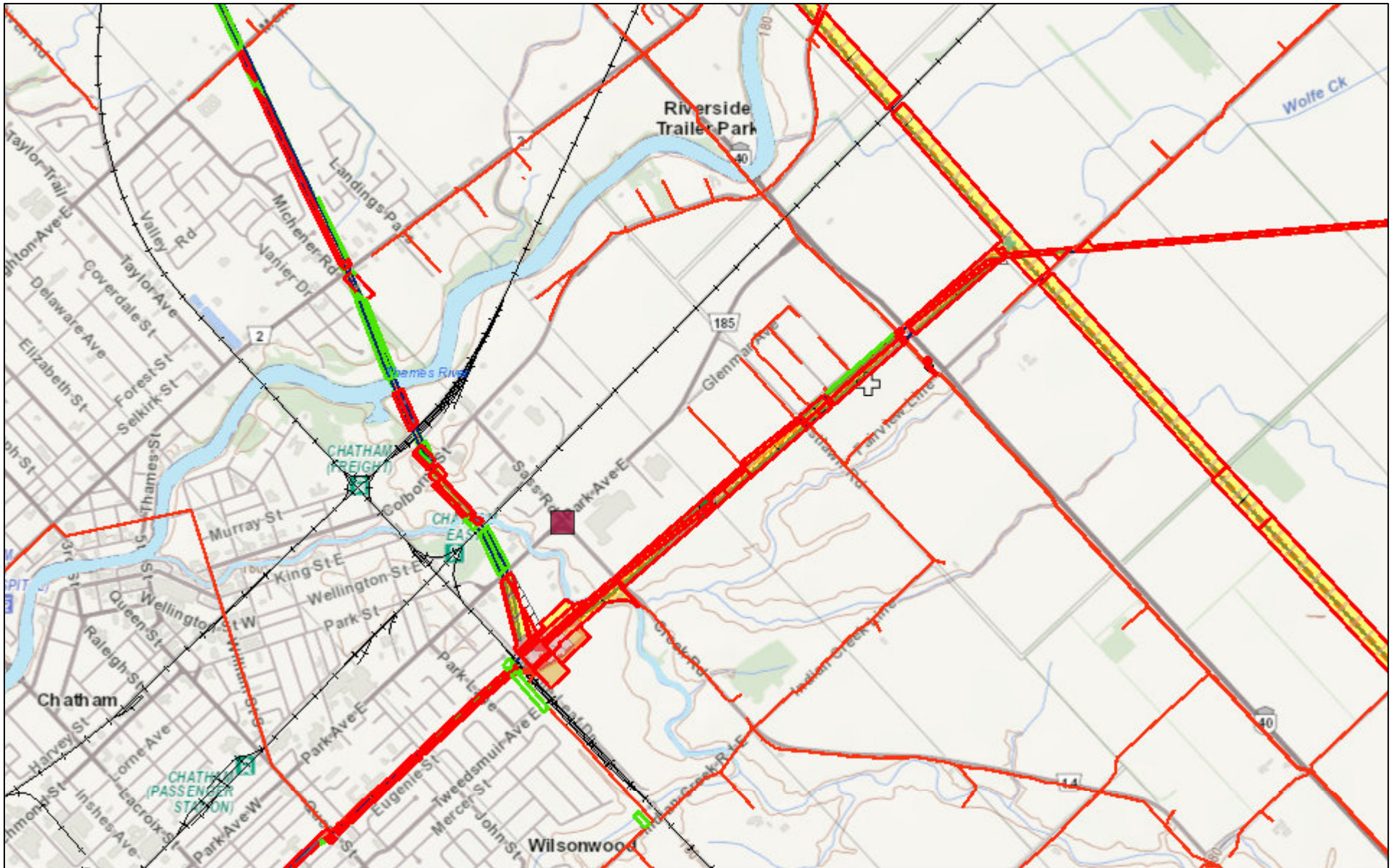
Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

We reiterate that this message does not constitute any form of approval for your project. Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com

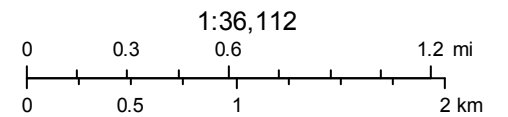
Sent on behalf of,

***Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.***

Landscape PDF



January 4, 2022



John Tyrrell

From: TC Energy <tcenergy@mhbcplan.com>
Sent: December 10, 2021 1:14 PM
To: Connor Maclsaac
Cc: John Tyrrell; alia@chatham-kent.ca; Amro Miqdadi; sarahmi@chatham-kent.ca
Subject: RE: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement - Utilities Distribution

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Hi there,

Regarding file Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area, TC Energy does not have any pipelines crossing the study area as outlined on the map provided.

Kind regards,
Kaitlin

Kaitlin Webber, BA, BEd, MA | Planner

MHBC Planning, Urban Design & Landscape Architecture

442 Brant Street, Suite 204 | Burlington | ON | L7R 2G4 | T 905 639 8686 x 228 | C 905 442 3772
| kwebber@mhbcplan.com

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From: Connor Maclsaac [<mailto:cmaclsaac@rvanderson.com>]

Sent: December-09-21 11:15 AM

Cc: John Tyrrell <JTyrrell@rvanderson.com>; alia@chatham-kent.ca; Amro Miqdadi <AMiqdadi@rvanderson.com>; sarahmi@chatham-kent.ca

Subject: Chatham-Kent Public Utilities Commission MCEA for the Sanitary System and Pump Station 14 in South Lynnwood Area - Notice of Study Commencement - Utilities Distribution

Dear Sir/Madam,

On behalf of the Chatham-Kent Public Utilities Commission (CK PUC), please find attached the Notice of Study Commencement for the Chatham Kent Public Utilities Commission Municipal Class Environmental Assessment for the Sanitary System and Pump Station 14 in South Lynnwood Area (Schedule B MCEA). The study will review and confirm municipal sanitary servicing requirements and identify capital project upgrades required for the Sanitary System and Pump Station 14 to provide sustainable municipal wastewater servicing and accommodate near and long-term future growth demands.

At this point in the study, we are requesting any relevant background information from your utility company as it relates to the study area. Information that would be of interest includes:

- Markups of existing infrastructure and any planned expansion or repairs to existing infrastructure in the study area.
- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;

Please respond to this email with your comments or contact directly the project team members listed on the attached notice.

Regards



Connor MacIsaac, EPT

ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218

a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1



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APPENDIX 1.4
PIC 1
June 2022



Chatham-Kent

Public Utilities Commission



Sanitary System and Pump Station 14 in South Lynnwood Area

Virtual Public Consultation Meeting
June 29, 2022



R.V. Anderson Associates Limited
engineering • environment • infrastructure



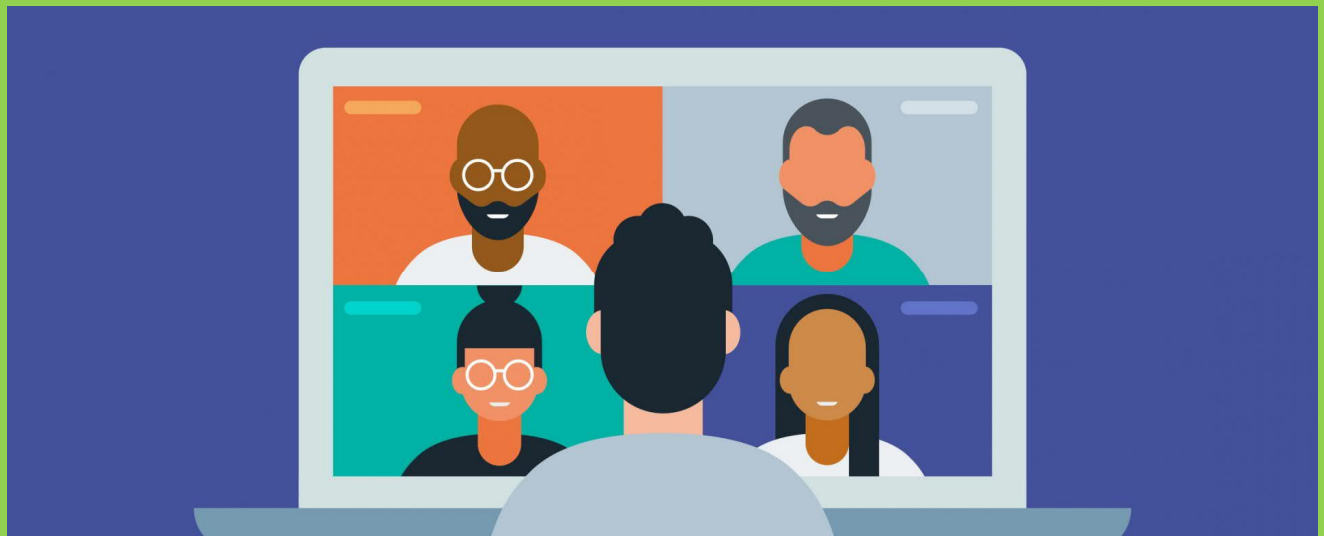
Virtual Meeting Format

Chatham-Kent Public Utilities Commission (CK PUC) presents this project for review.

This is an online meeting that is replacing a traditional face-to-face Public Information Centre (PIC) due to COVID-19 restrictions.

This PIC will be made available on the LetsTalkChatham-Kent Website for the entire duration of the project.

Please provide your comments by July 27th, 2022.



- Introduce you to the study.
- Provide an overview of the study process.
- Identify the issues and reason for this study.
- Describe the Problem and Opportunity Statement.
- Describe the Servicing Strategies being evaluated to address the problem and opportunity statement.
- Present the Evaluation Criteria.
- Describe the next steps in the process.



Purpose of Meeting

- CK PUC is responsible for the treatment and delivery of safe drinking water, collection and treatment of sewage in the Municipality of Chatham-Kent
- There are lands in the Lynnwood area designated for urban development
- Municipal water servicing is provided to this area
- Municipal sanitary servicing is required for new development
- This study will review and confirm the sanitary servicing requirements for this area



What is this project about?

Municipal Class Environmental Assessment

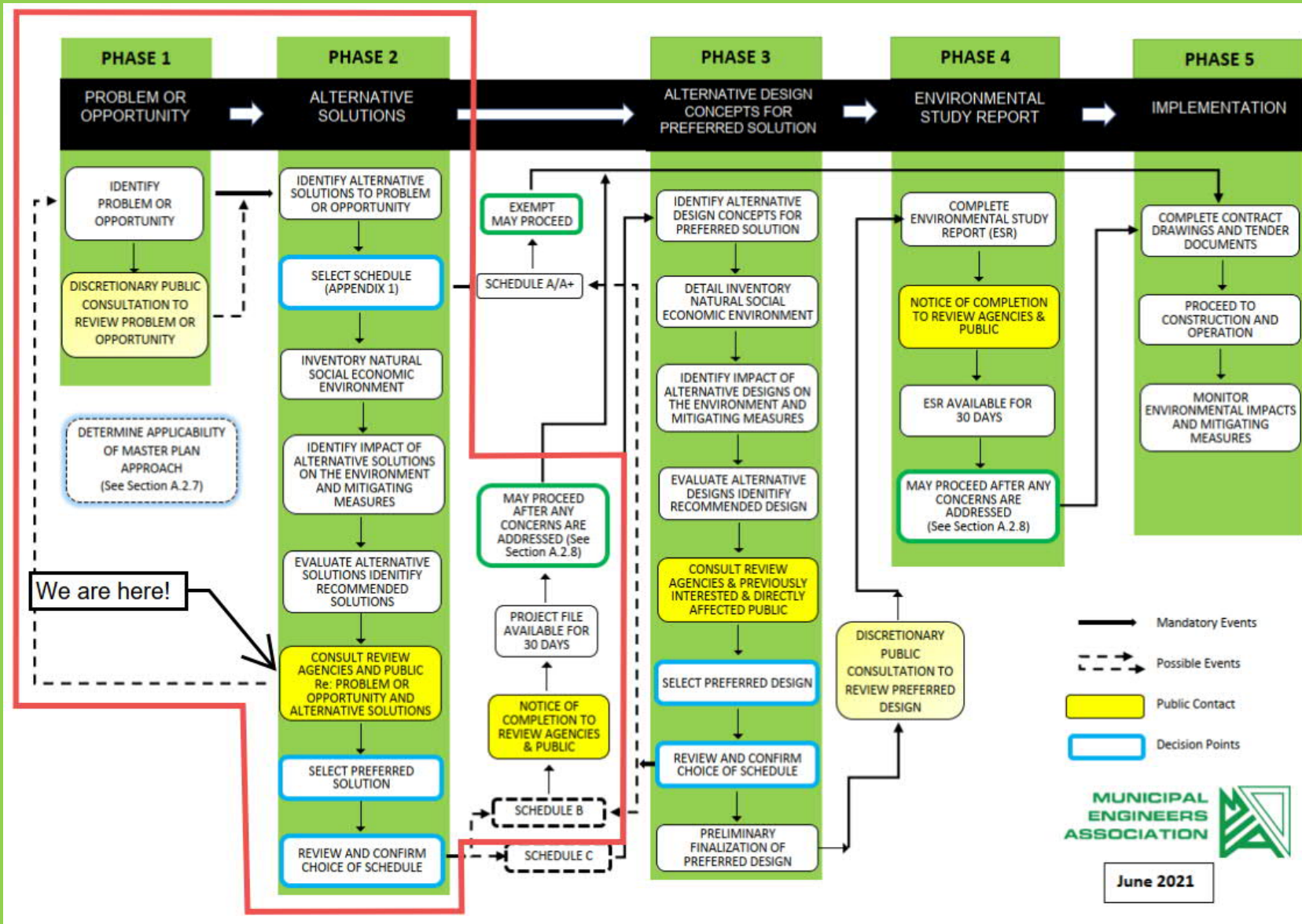
This study is being undertaken in accordance with the Municipal Class Environmental Assessment (EA) process:

- The Class EA process has up to five steps depending upon the category.

The categories vary in terms of complexity and potential impact of the project and are as follows:

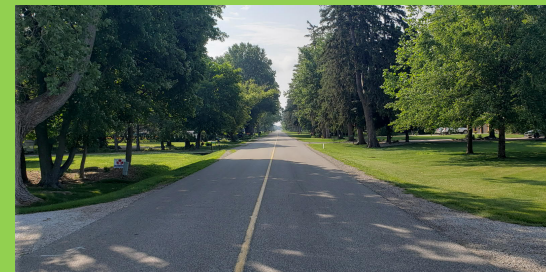
- Schedule A: considered preapproved
- Schedule A+: considered preapproved with notification to directly effected members of the public
- Schedule B: Must undertake Phases 1 and 2 of the process prior to implementation (Phase 5)
- Schedule C: Must undertake Phases 1, 2, 3 and 4 of the process prior to implementation (Phase 5)

This project which involves the potential for new sanitary sewers and a new pumping station is a Schedule B project.



Municipal Class Environmental Assessment

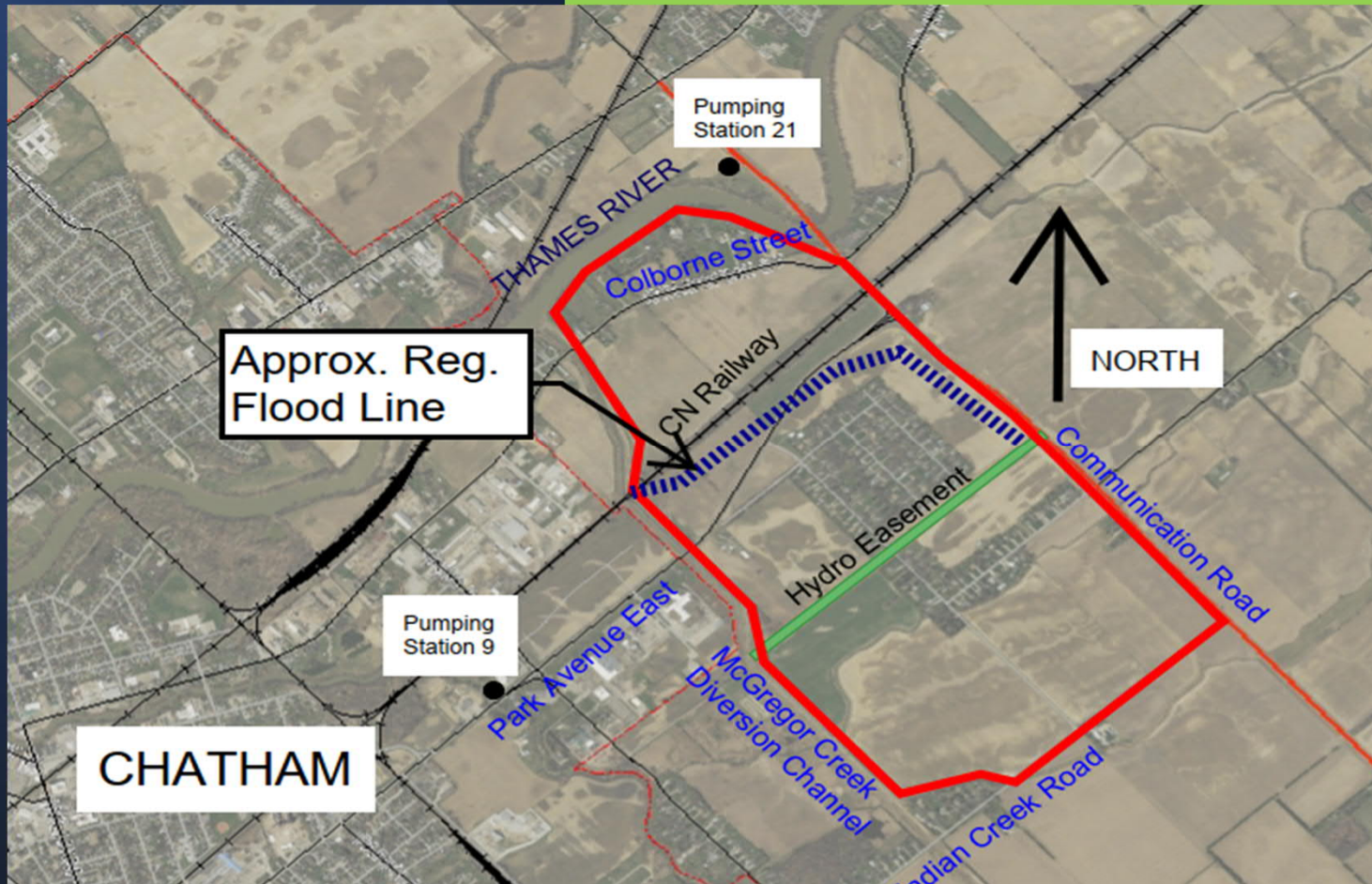
- This study will review and confirm municipal sanitary servicing requirements for the Sanitary System and Pump Station 14
- The MCEA will look at
 - siting a new sewage pumping station,
 - new inlet sanitary sewers in the South Lynnwood area, and
 - outlet forcemain/gravity sewer connection to Chatham's sewage collection system.



Problem or Opportunity Statement

Study Area Details

- Study Area is approximately 238 ha in size
- Currently 123 single family residential lots which have on site sanitary servicing
- Hydro One easement and a Canadian National Railway line cross the area
- Study area is very flat varying between 180.0m and 183.0m ASL



- Thames River is located to the north
- Regulatory flood line runs south of the railway line in the vicinity of Park Avenue East and Communications Road

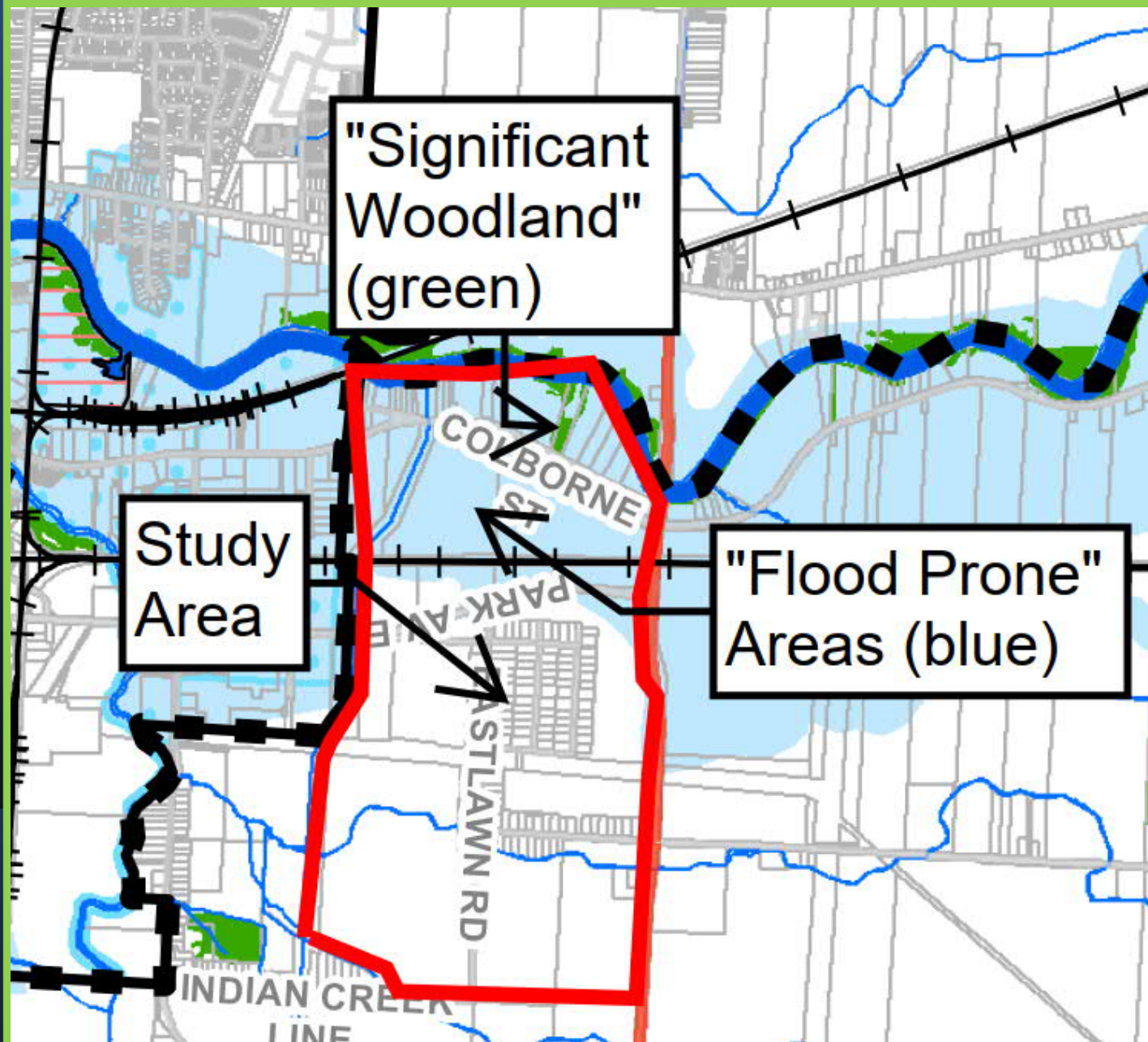
Through the MCEA process CKPUC will:

- Review of natural features within the study area
- Inventory and review the current state of the infrastructure
- Determine Servicing Strategy Options
 - Confirm what the expected 20-year sanitary flow is and provide options to accommodate this
 - Project potential ultimate flows and accommodate, if possible, allowances for future growth
- Provide opportunity for public and agency input into solution
- Determine Preferred Servicing Solutions

Key MCEA Components

Key Features of Study Area:

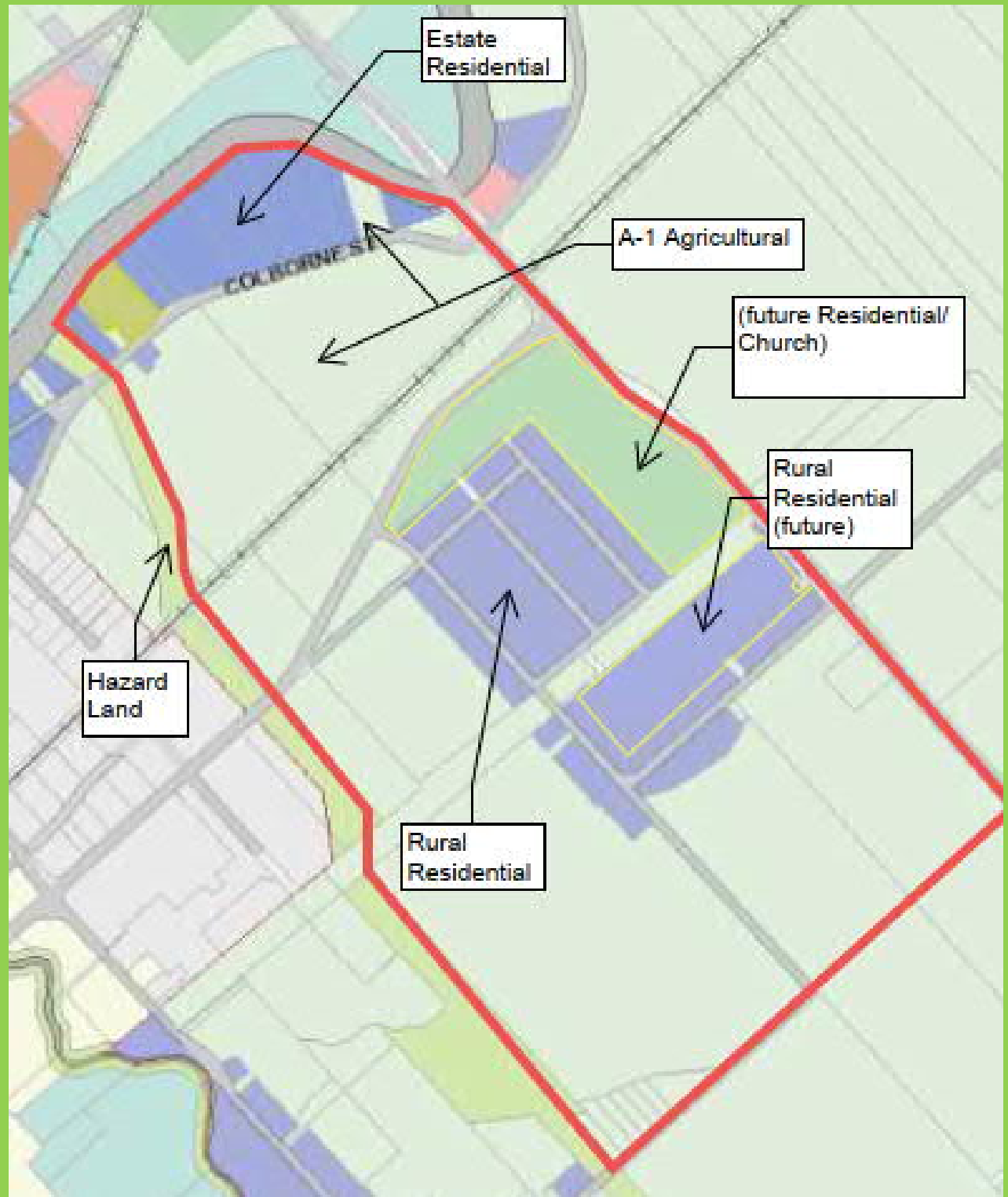
- Natural Feature
- Cultural Heritage Features



- No cultural heritage features were noted in study area

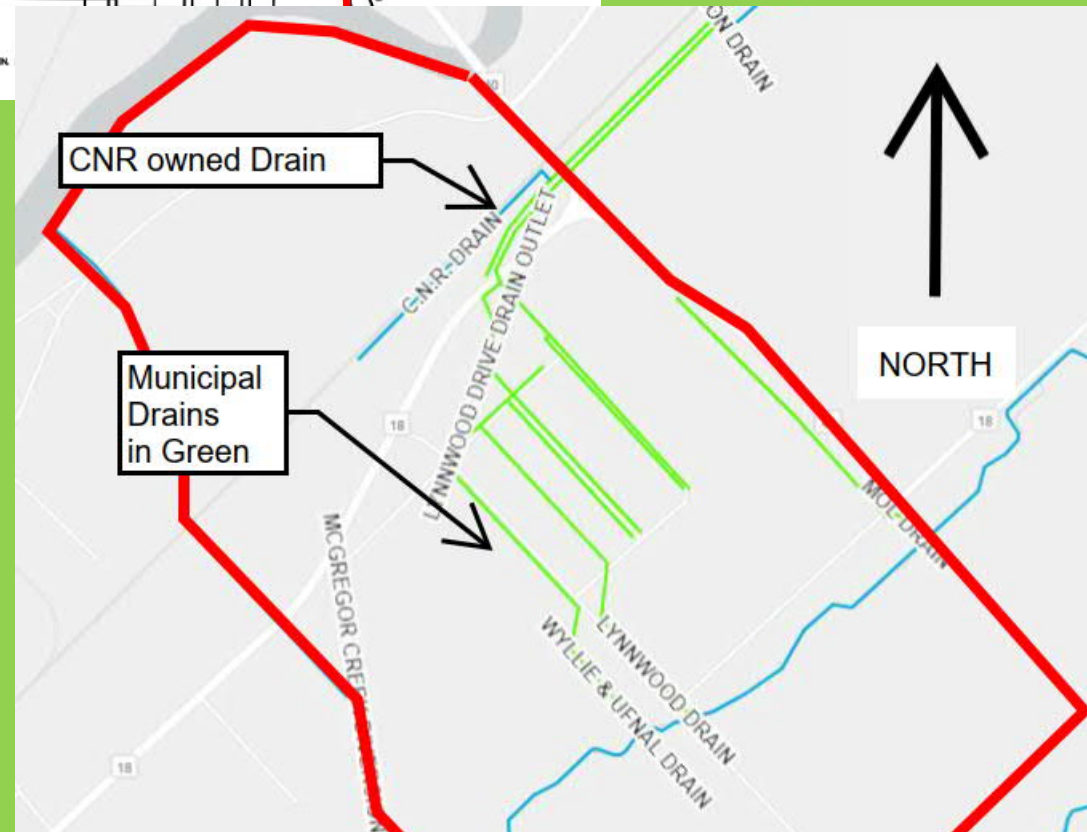
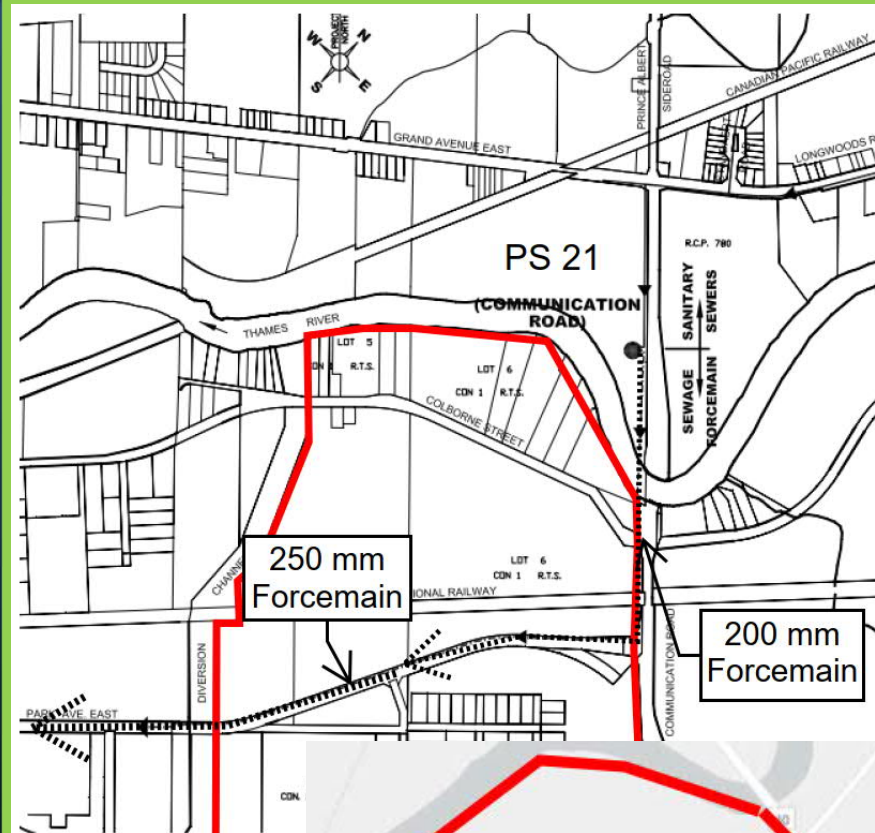
Key Features of Study Area:

- Existing Zoning



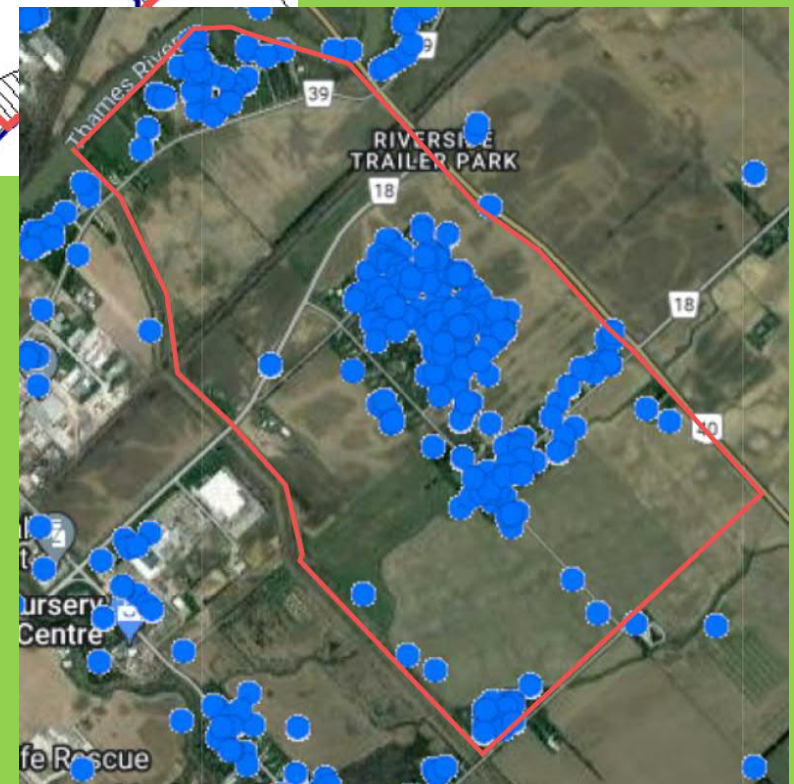
Key Features of Study Area:

- Existing Infrastructure
 - Sanitary Forcemain
 - Municipal Drains



Key Features of Study Area:

- Existing Infrastructure
 - Watermains (blue lines) – CK PUC Owned
 - Wells (blue dots) – privately owned



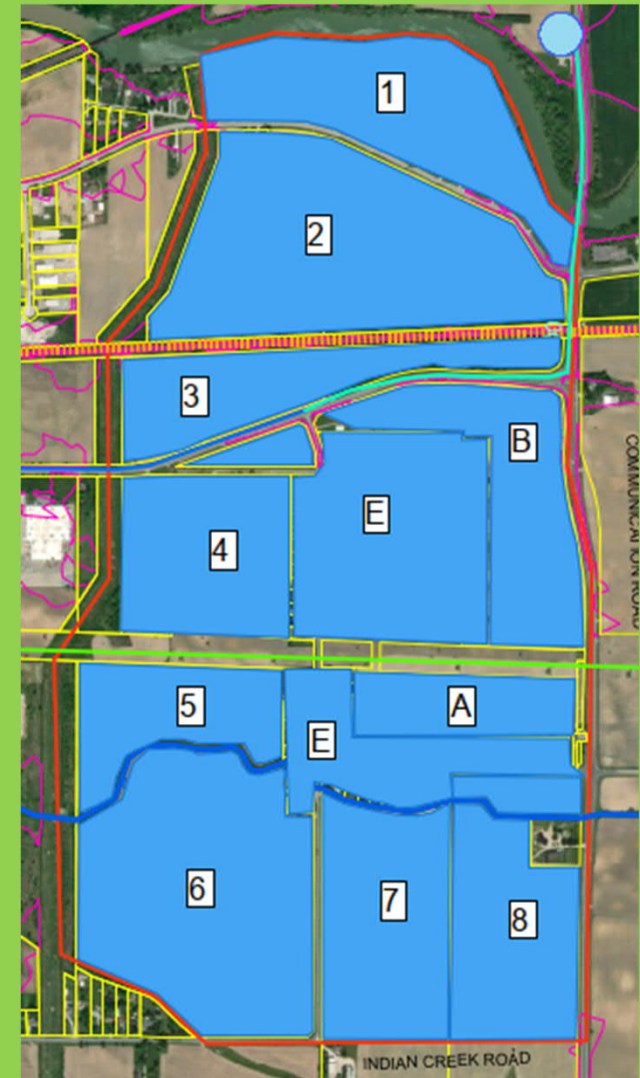
0 to 20-years

- Area A - Rural Residential south of Hydro Easement (9.2 ha);
- Area B - Future Development of Lands to north of Hydro Easement (17.4 ha); and
- Design flow estimated at 11.9 l/s.



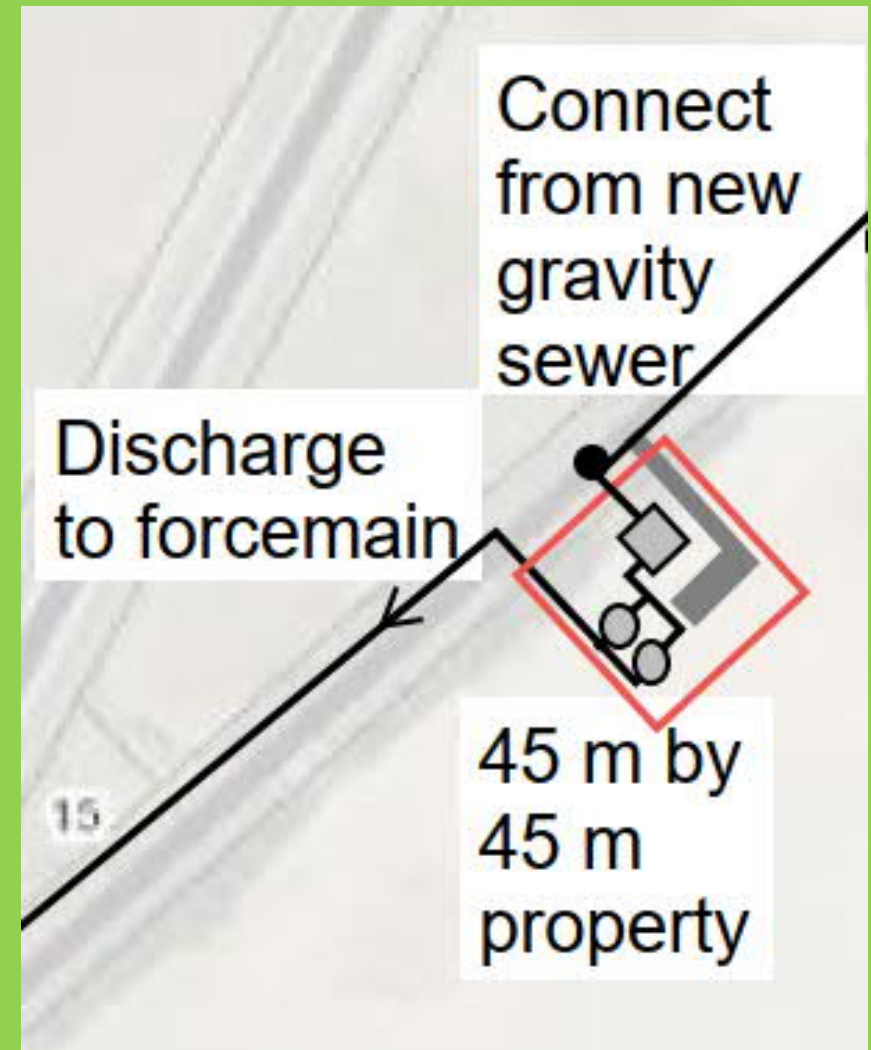
Anticipated Flows from Study Area

- Ultimate Area
 - Total area (potential developable lands) (238 ha)
 - Assume a provision to eventually connect the existing residential area (Area E) and the existing estate lots in Area 1
 - If entire area is eventually developed as residential the design flow estimated at up to 103.3 L/s
 - If 50 % area is eventually developed as residential the design flow estimated at up to 66.8 L/s



Anticipated Flows from Study Area

- Ultimate PS 14 footprint
 - Depth from Road Right of Way – 45 m
 - Length parallel to Road Right of Way – 45 m
 - Total area 2025 m²(0.50 acres)
 - A hammer head access road set up like PS 21
 - Space for two 7.5 m diameter wet wells
 - Space for a 10m by 10 m footprint for a storage tank;
 - Sufficient room to place a backup generator and a small control building



PS 14 Conceptual Design

Planning Options

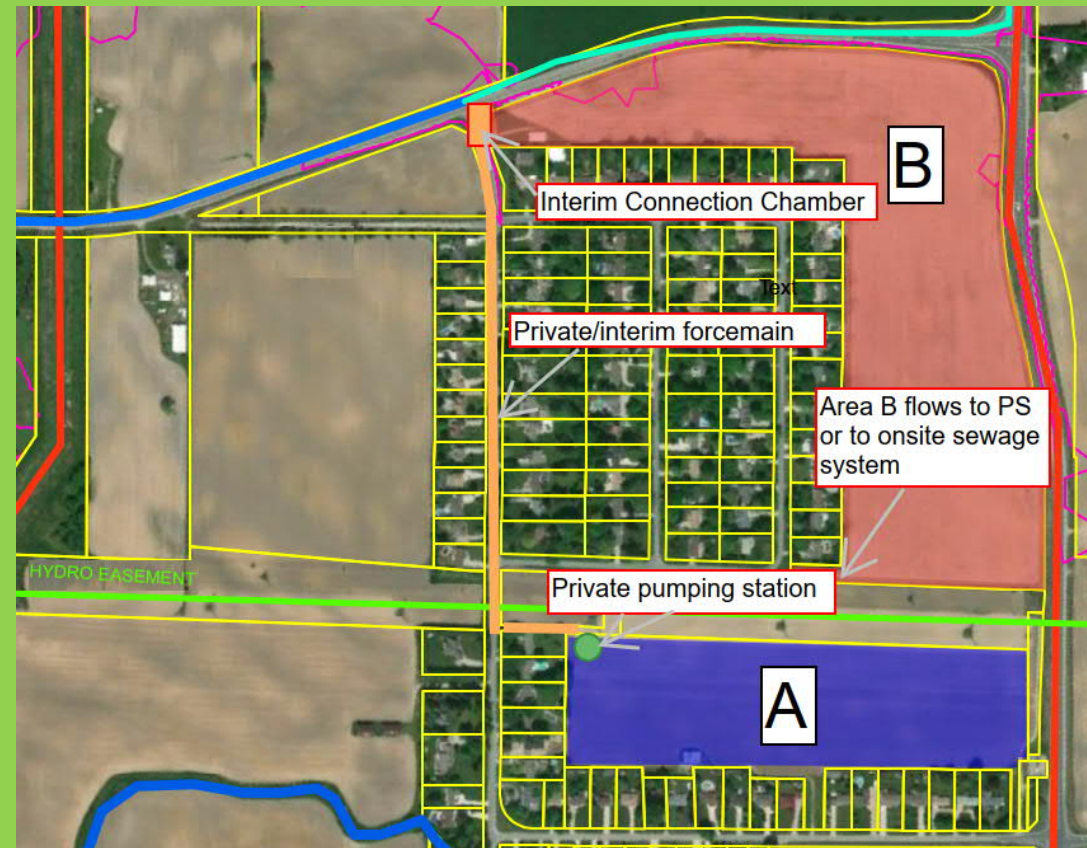
Planning Alternatives Reviewed:

1. Do Nothing option – Development based on on-site systems
2. Alternative 2 - Private/Development Level Solution
3. Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A
4. Alternative 4 - Gravity Sewer Connection to Pumping Station 14

- The “Do Nothing” alternative represents what would occur if none of the alternative solutions were implemented
- This provides a baseline for evaluating alternative solutions and is a requirement of the Class EA process
- This alternative would involve not undertaking municipal sanitary servicing for future development
- At present development is not permitted based on private sewage systems

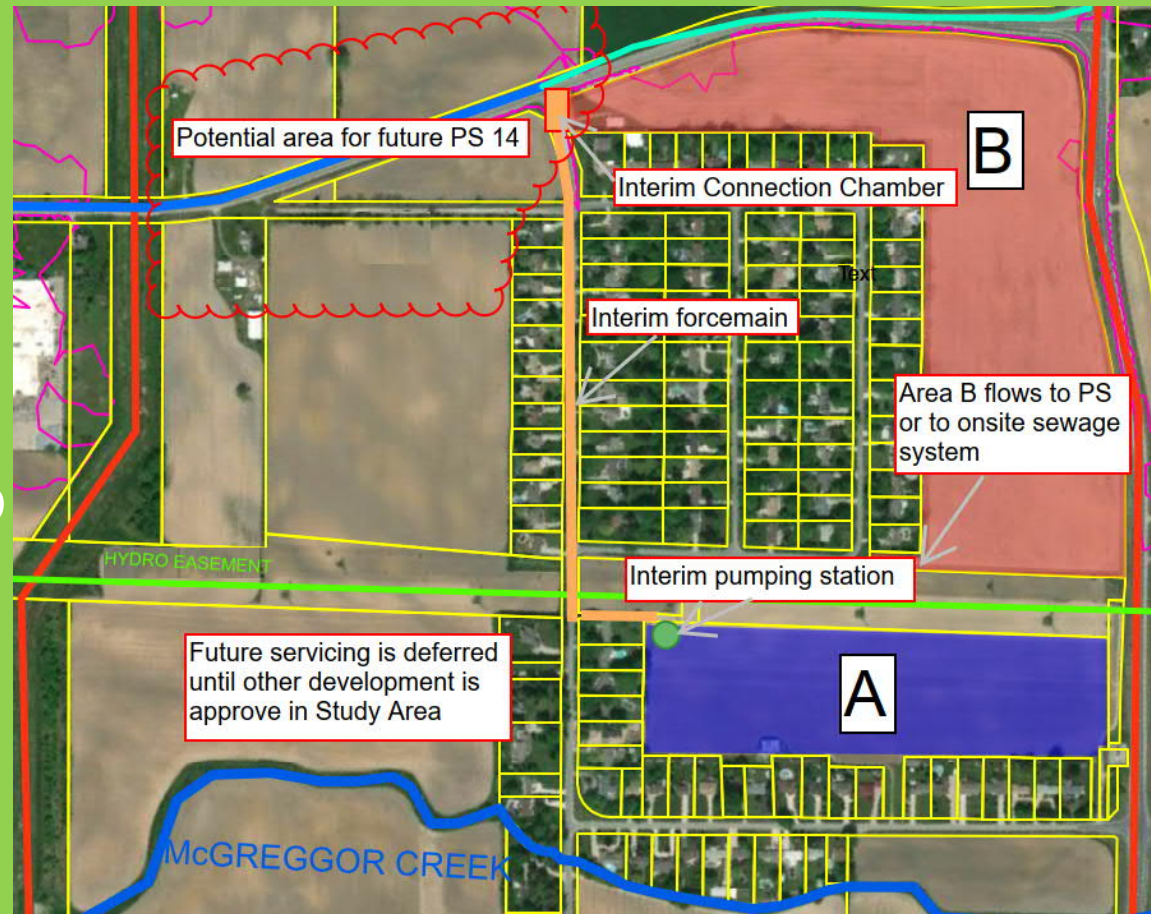
Alternative 1 - Do Nothing (no further review)

- Developer built system to service Area A including
 - Private Pump Station
 - Forcemain running along Cameron/Eastlawn/Glenmar
 - Connection to existing PS 21 forcemain
- Area B would be brought into the new PS



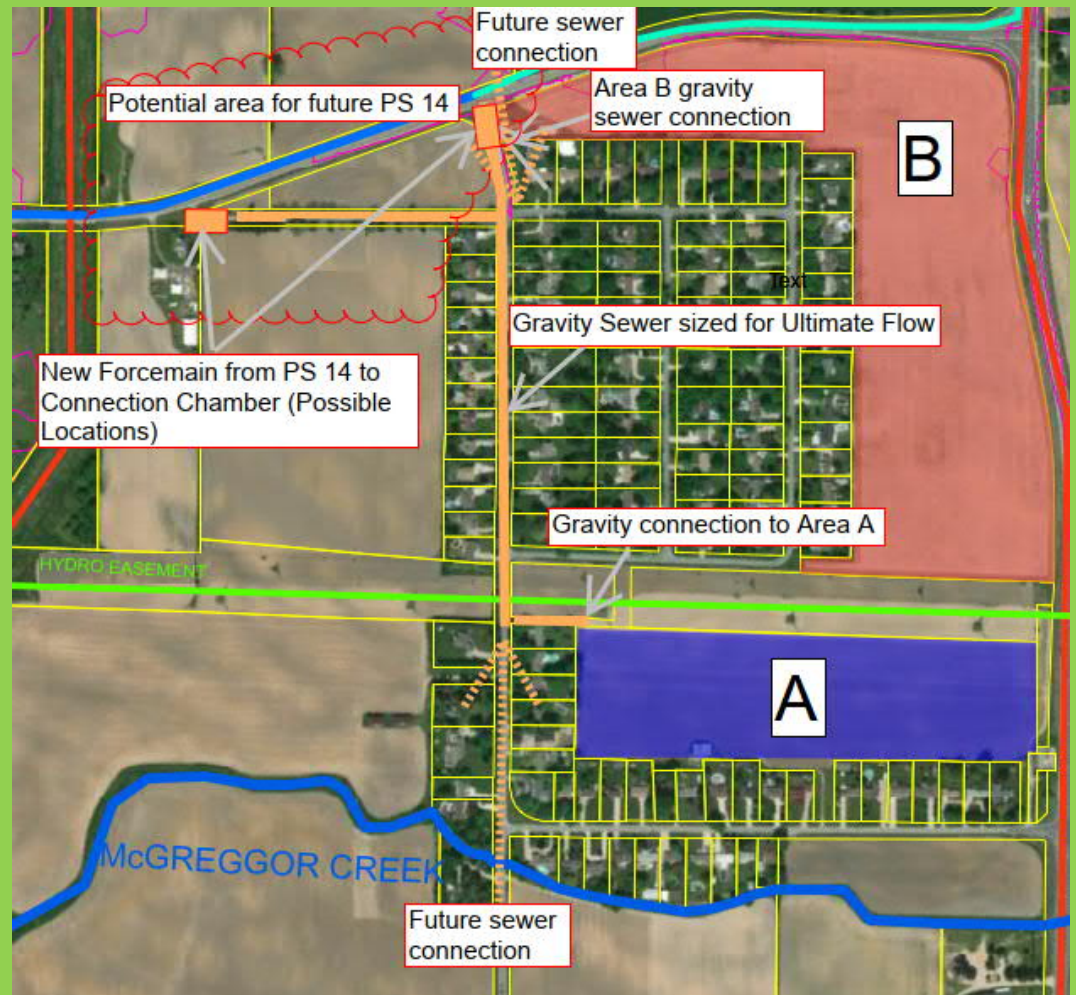
Alternative 2 - Private/Development Level Solution

- CK PUC built system to service Area A including
 - Interim Pump Station
 - Interim forcemain running along Cameron/Eastlawn/Glenmar
 - Connection to existing PS 21 forcemain
- Area B would be brought into the new PS
- Estimated cost for 20-year servicing is \$2.9- 4.3 million



Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A

- CK PUC built system to service Area A and B including
 - Gravity Sewer along Cameron/Eastlawn/Glenmar
 - Connection to new PS 14
 - Forcemain from PS 14 to existing Park Ave East Forcemain
- Gravity sewer is sized for ultimate area flow
- Estimated cost for 20-year servicing is \$6.8- 10.2 million



Alternative 4 – Gravity Sewer Connection to PS 14

Planning Options Review Criteria

- We are going to review the Alternatives 2, 3, and 4 based upon the following criteria:
 1. Financial
 2. Technical
 3. Environmental
 4. Social/Cultural and Archaeological
- This will be a qualitative review as the planning-level options do not require a detailed quantification of benefit, cost or impact to short list.

Highest Impact
(Most Negative Solution)

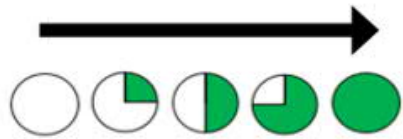


Lowest Impact
(Most Positive Solution)

Evaluation Criteria	Alternative 2 – Private/Development Level Solution	Rating
Financial	<ul style="list-style-type: none">• Private Developer pays for upgrades• Minimize potential for throw away costs for CK PUC• Throw away costs associated with initial system borne by developer	
Technical	<ul style="list-style-type: none">• Addresses immediate development but does not address solution for study area	
Environmental	<ul style="list-style-type: none">• Environmental impacts can be managed with current design and construction practices	
Social, Cultural and Archeological	<ul style="list-style-type: none">• Does not support development of study area	
Overall Conclusion	<ul style="list-style-type: none">• Solution is not recommended	

Alternative 2 - Private/Development Level Solution

Highest Impact
(Most Negative Solution)

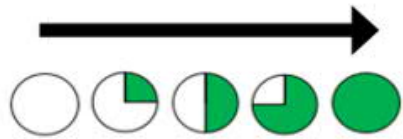


Lowest Impact
(Most Positive Solution)

Evaluation Criteria	Alternative 3 – Sewer Collection System to Interim Pumping Station in Area A	Rating
Financial	<ul style="list-style-type: none">• Throw away costs associated with initial system borne by CK PUC	
Technical	<ul style="list-style-type: none">• Addresses immediate development and limited ability to incorporate into final solution	
Environmental	<ul style="list-style-type: none">• Environmental impacts can be managed with current design and construction practices	
Social, Cultural and Archeological	<ul style="list-style-type: none">• Partly supports development of study area	
Overall Conclusion	<ul style="list-style-type: none">• Second Place Solution	

Alternative 3 - Sewer Collection System to Interim Pumping Station in Area A

Highest Impact
(Most Negative Solution)

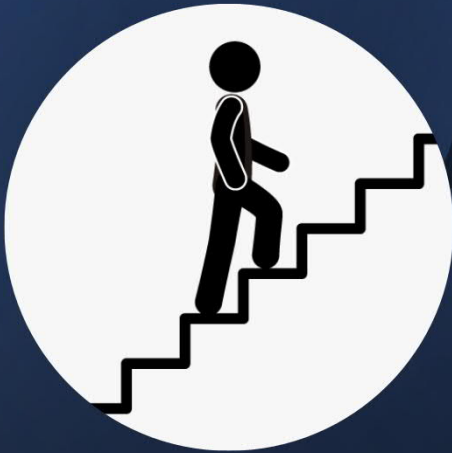


Lowest Impact
(Most Positive Solution)

Evaluation Criteria	Alternative 4 – Gravity Sewer Connection to Pumping Station 14	Rating
Financial	<ul style="list-style-type: none">Higher initial capital costs borne by CK PUCMinimizes throw-away costs	
Technical	<ul style="list-style-type: none">Addresses immediate development with ability to incorporate into final solution	
Environmental	<ul style="list-style-type: none">Environmental impacts can be managed with current design and construction practices	
Social, Cultural and Archeological	<ul style="list-style-type: none">Supports development of study area	
Overall Conclusion	<ul style="list-style-type: none">Preferred Solution	

Alternative 4 - Gravity Sewer Connection to PS 14

Next Steps



- Review and consider feedback and data received from the public and agencies
- Confirm preferred solution
- Prepare Class EA Project File
- Issue Notice of Completion
- Following 30-day review period for Project File, finalize Class EA – Summer 2022
- Proceed with PS 14 Servicing Project
- Once PS 14 site is confirmed an archaeological assessment will be undertaken

Please feel free to submit your comments via the comment option on the PIC website, or email or phone a member of the study team:

Ali Akl, P.Eng., PMP.

Project Engineer

Chatham-Kent Public Utilities

Commission

alia@chatham-kent.ca

(226) 312-2023 ext. 4347

John Tyrrell, M.Sc.(Eng.), P.Eng.

Senior Project Manager/

Regional Manager

R.V. Anderson Associates Limited

jtyrrell@rvanderson.com

(519) 681-9916 ext. 5038

Project information will be posted on www.letstalkchatham-kent.ca/south-lynwood-area-sanitary-system-and-pump-station-project

The PIC comments section will be open until July 27th, 2022.

Comments/Questions

APPENDIX 2
STUDY AREA FLOW CALCULATIONS

20-year to PS 14 "Low Flow Scenario"

Catchment	Area (ha)	Pop.	ADF (L/s)	PF (L/s)	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
Area A	9.23	342	1.3	4.1	5.5	0.9	6.4
Area B (Church) ¹	17.37	n/a	0.4	3.0	1.3	1.7	3.0
Total							9.4

+20% Factor of safety 11.2

1 - per OBC Table 8.2.1.3.B. Assume Church with kitchen facilities and capacity of 1000 seats

20-year to PS 14 "High Flow Scenario"

Catchment	Area (ha)	Pop.	ADF (L/s)	PF (L/s)	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
Area 1	9.2	342	1.3	4.1	5.5	0.9	6.4
Area 2 (Residential)	17.4	643	2.5	3.9	9.9	1.7	11.7
Area E	12.5	438	1.7	4.0	6.9	1.3	8.2
Total	39.1	1,422	5.6	3.7	20.7	3.9	26.2

+20% Factor of safety 31.4

Ultimate Flow

Remaining Study Area

Catchment	Area (ha)	Pop.	ADF (L/s)	PF (L/s)	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
1	25.9	53	0.2	4.3	0.9	0.1	1.0
2	34.3	1,270	5.0	3.7	18.7	0.2	18.9
3	15.9	588	2.3	3.9	9.1	0.3	9.4
4	16.4	606	2.4	3.9	9.4	0.4	9.8
5	12.9	479	1.9	4.0	7.5	0.5	8.0
6	34.5	1,277	5.0	3.7	18.8	0.6	19.4
7	18.0	665	2.6	3.9	10.2	0.7	10.9
8	18.0	668	2.6	3.9	10.3	0.8	11.1
Total	176.0	5,606	22.1	3.2	70.7	3.6	74.3

50% of Remaining Area Ultimately Developed:

	88.0	2,803	11.1	3.5	38.3	1.8	40.1
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Catchment	Area (ha)	Pop.	ADF (L/s)	PF (L/s)	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
20-year to PS 14 "High Flow Scenario"	39.1	1,422	5.6	3.7	20.7	3.9	26.2
100 % Remaining Study Area	176.0	5,606	22.1	3.2	70.7	3.6	74.3
	215.1	7,028	27.7	3.1	86.0	21.5	107.6

+10% Factor of safety 118.3

Catchment	Area (ha)	Pop.	ADF (L/s)	PF (L/s)	Flow (L/s)	Infiltr. (L/s)	Total Flow (L/s)
20-year to PS 14 "High Flow Scenario"	39.1	1,422	5.6	3.7	20.7	3.9	26.2
50 % Remaining Study Area	88.0	2,803	11.1	3.5	38.3	1.8	40.1
	127.1	4,225	16.7	3.3	55.2	12.7	67.9

+10% Factor of safety 74.7

Table 8.2.1.3.B. Other Occupancies
Forming Part of Sentence 8.2.1.3.(2)

Item	Column 1 Establishments ⁽¹⁾	Column 2 Volume, litres
1.	Airports, Bus Terminals, Train Stations, Dock/Port Facilities (Food Services excluded)	
	a) Per passenger, and	20
	b) Per employee per 8 hour shift	40
2.	Assembly Hall - per seat	
	a) No food service, or	8
	b) Food service provided	36
3.	Barber Shop/Beauty Salon - per service chair	650
4.	Bowling Alleys (Food Service not included) - per lane	400
5.	Churches and Similar Places of Worship - per seat	
	a) No kitchen facilities, or	8
	b) Kitchen facilities provided	36

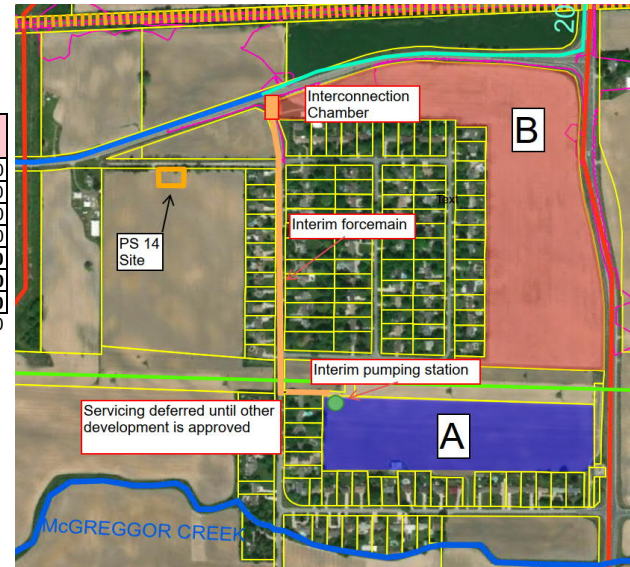


**APPENDIX 3
COST OPINIONS DEVELOPED FOR
OPTIONS 3 AND 4**

Anticipated Capital Costs for Options

OPTIONS 2 and 3

Item	From	To	Length	Pipe Dia.	Cost	Const. Cost	Rest.	Total/m	TOTAL (2014 Cost)	TOTAL (2022 Cost)
New PS Land Purchase										\$350,000
New Interim Pumping Station										\$1,500,000
Forcemain to Existing FM	N/A		600	150	\$70.0	\$430		\$600	\$360,000	\$439,200
Control Chamber										\$200,000
SUBTOTAL										\$2,489,200
PLANNING AND ENGINEERING (15%)										\$373,380
TOTAL OPTIONS 2 & 4										\$2,862,580
+50%										\$4,293,870



OPTION 4

Item	From	Avg Depth	Length	Pipe Dia.	Cost	Const. Cost	Rest.	Total/m	TOTAL (2014 Cost)	TOTAL (2022 Cost)
Sanitary Sewer Area A to Glenmar	7.5	8.57	480	450	\$95.0	\$1,009	\$669	\$1,773	\$851,078	\$1,038,316
Sanitary Sewer Glenmar to PS 14	7.5	7.99	120	375	\$90.0	\$893	\$644	\$1,627	\$195,187	\$238,128
Gravity Sewer from Area B		5	100	150	\$65.0	\$605	\$510	\$1,180	\$118,000	\$143,960
PS 14 Land Purchase										\$350,000
New Pumping Station 14										\$3,500,000
Forcemain to Existing FM	N/A		150	150	\$80.0	\$690	\$1,600	\$2,370	\$355,500	\$433,710
Control Chamber										\$200,000
SUBTOTAL										\$5,904,114
PLANNING AND ENGINEERING (15%)										\$885,617
TOTAL OPTION 4										\$6,789,731
+50%										\$10,184,597

