

APPENDIX A

Consultation

APPENDIX A.1

Study Notifications

Notice of Study Commencement City of Kitchener Integrated Sanitary Master Plan

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits, as shown on the map.

The Master Plan will review existing conditions, develop an assessment of alternative solutions for sanitary servicing, and identify the preferred alternative to support planned growth across the City. The preferred alternative will be identified following a technical review of alternatives, as well as input received from agencies, Indigenous communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

How can I participate in this Study?

We want to hear from you! If you would like more information on the study or wish to be added to the contact list, please use the contact information below:

Jean Hao, P.Eng., PMP

Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener
Phone: 519-741-2200 ext. 4156
TTY: 1-866-969-9994
Email: Jean.Hao@kitchener.ca

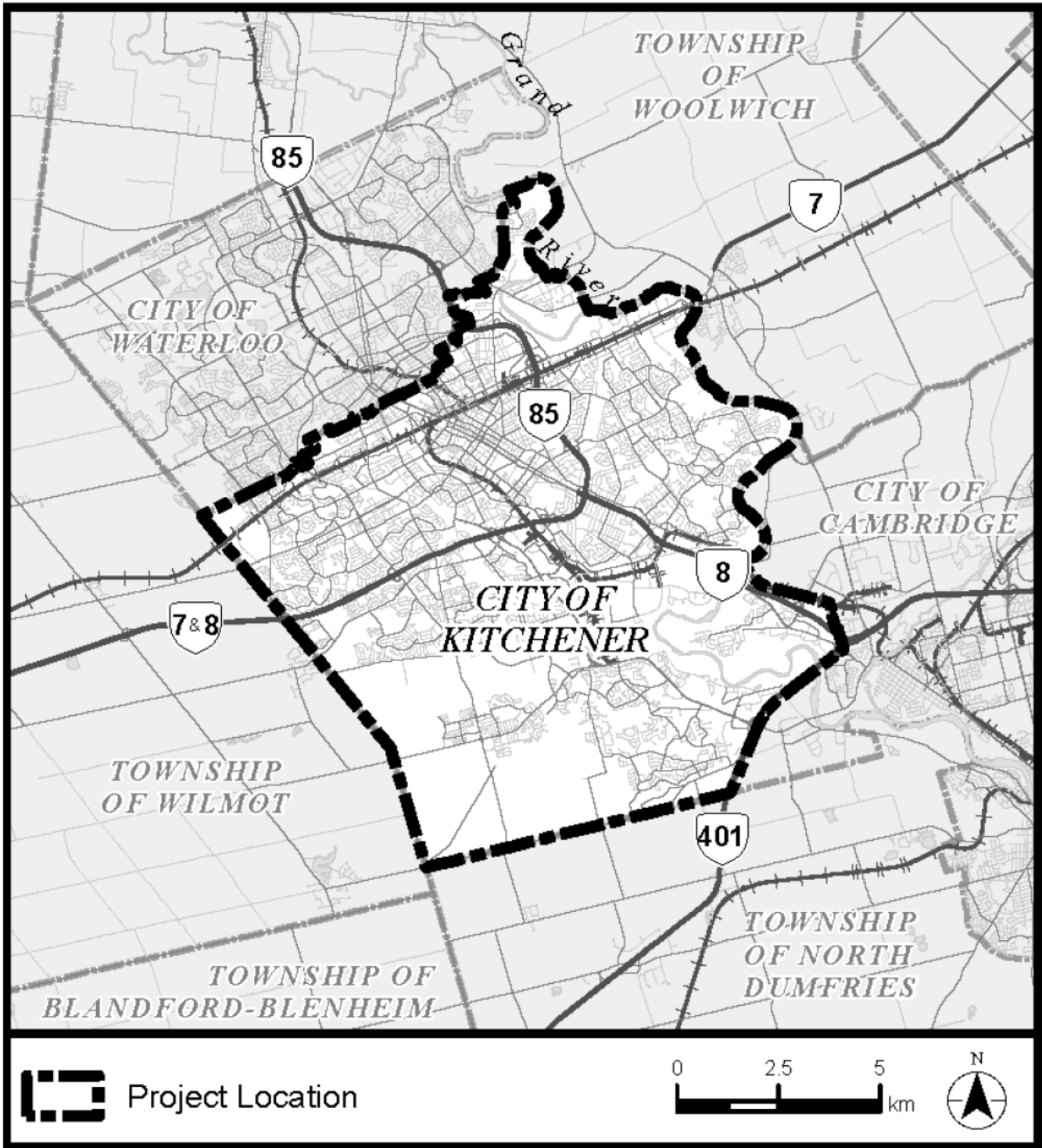
Jeff Paul, P.Eng.

Project Manager
Stantec Consulting Ltd.
600-171 Queens Avenue
London ON N6A 5J7
Phone: 519-319-5806
Email: Jeff.Paul@stantec.com

If you have any accessibility requirements in order to participate in this study, please contact the City of Kitchener Project Manager. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice issued on Thursday, September 2, 2021.

Study Area Map



Notice of Virtual Public Information Centre 1 City of Kitchener Integrated Sanitary Master Plan

The City of Kitchener is undertaking an Integrated Sanitary Master Plan (ISAN-MP). The purpose of the ISAN-MP is to examine the City's sanitary infrastructure needs in light of its existing condition, capacity and potential future growth. There is significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure. The Study is being undertaken within the City limits, as shown on the map.

The Master Plan will review the existing conditions and planned future growth, develop and assess alternative solutions for sanitary servicing, and identify the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative will be identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

How can I participate in this Study?

A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present the background information on the study. The PIC materials will be available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022 using the contact information below.

Jean Hao, P.Eng., PMP

Design & Construction Project Manager

Utility Planning and Programs

City of Kitchener

Phone: 519-741-2200 ext. 4156

TTY: 1-866-969-9994

Email: Jean.Hao@kitchener.ca

Jeff Paul, P.Eng.

Project Manager

Stantec Consulting Ltd.

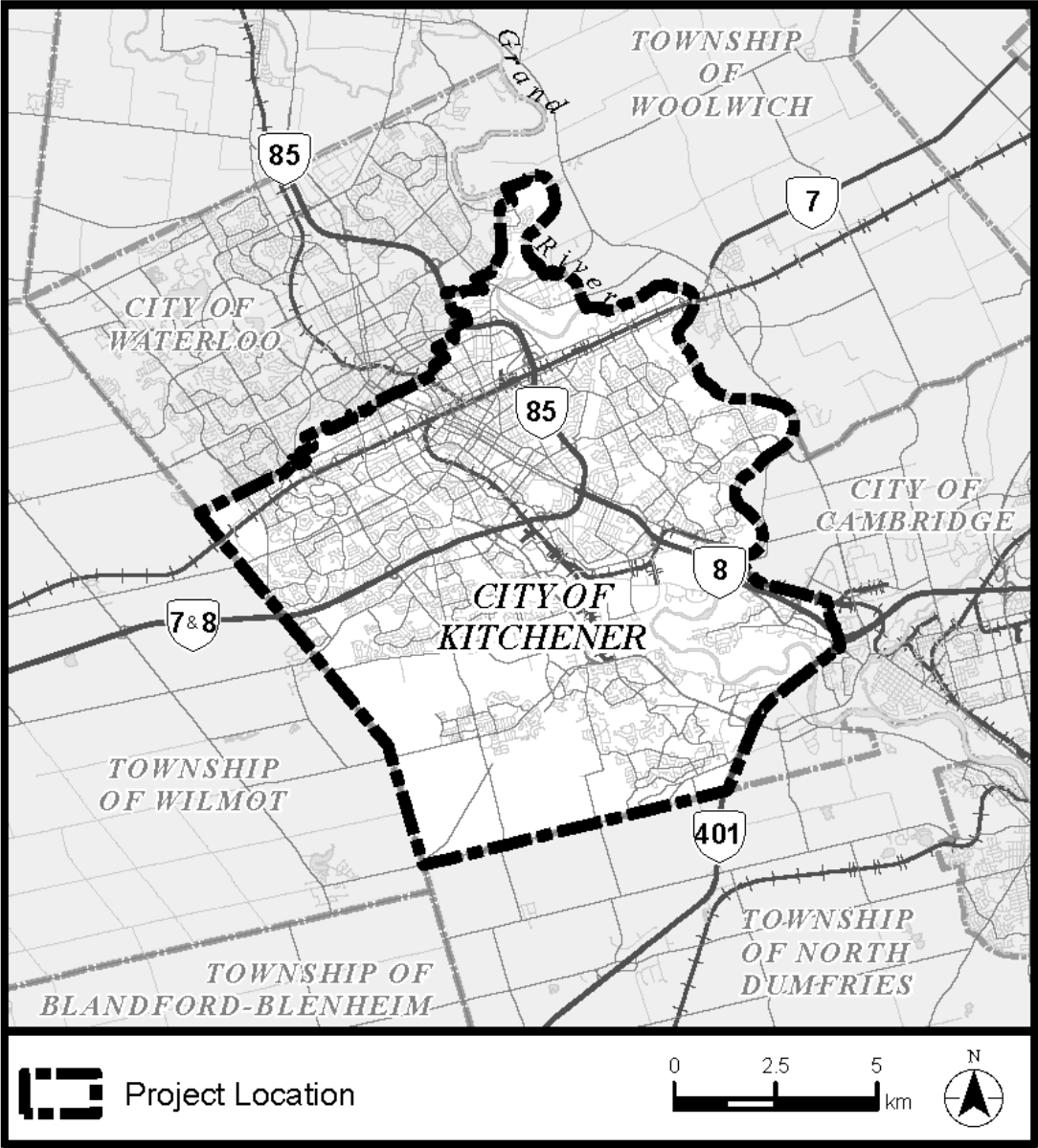
Phone: 519-319-5806

Email: Jeff.Paul@stantec.com

If you have any accessibility requirements in order to participate in this study, please contact the City of Kitchener Project Manager. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice issued on Friday, July 8, 2022.

Study Area Map



Notice of Virtual Public Information Centre 2 City of Kitchener Integrated Sanitary Master Plan

The City of Kitchener is undertaking an Integrated Sanitary Master Plan (ISAN-MP). The purpose of the ISAN-MP is to examine the City's sanitary infrastructure needs in light of its existing condition, capacity and potential future growth. There is significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure. The Study is being undertaken within the City limits, as shown on the map.

The Master Plan has reviewed the existing conditions, developed an assessment of alternative solutions for sanitary servicing, and identified the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative has been identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

How can I participate in this Study?

A second Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present the recommended solutions. The PIC materials will be available on the City's Engage Kitchener website starting on December 6, 2023.

Website: www.engagewr.ca/sanitarymasterplan

Please provide comments by participating in the Engage Forum on www.engagewr.ca/sanitarymasterplan by December 20 or by contacting a member of the project team below by January 7, 2024.

Jean Hao, P.Eng., PMP

Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener
Phone: 519-741-2200 ext. 4156
TTY: 1-866-969-9994
Email: Jean.Hao@kitchener.ca

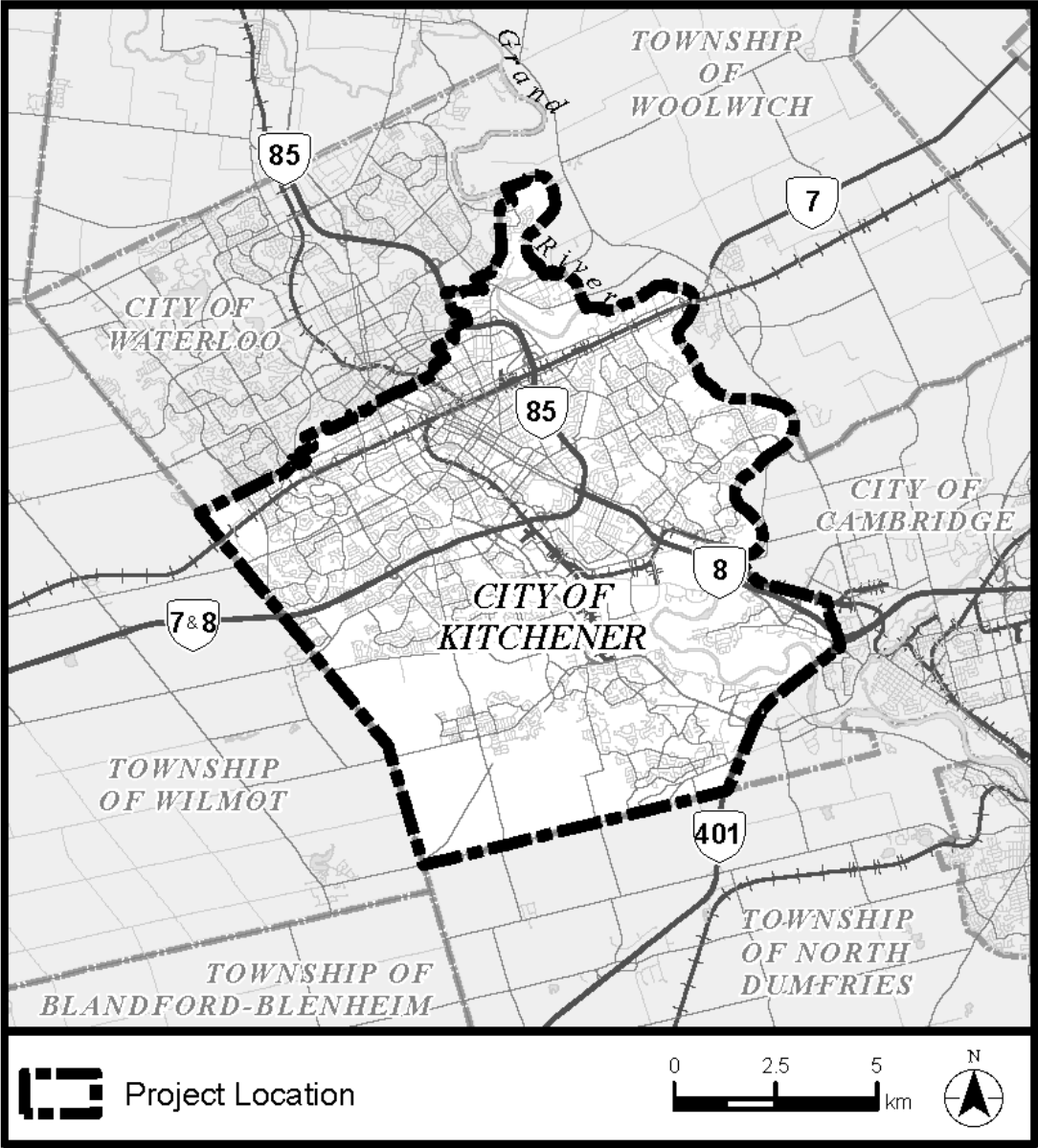
Jeff Paul, P.Eng.

Project Manager
Stantec Consulting Ltd.
Phone: 519-319-5806
Email: Jeff.Paul@stantec.com

If you have any accessibility requirements in order to participate in this study, please contact the City of Kitchener Project Manager. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice issued on Wednesday, December 6, 2023.

Study Area Map



APPENDIX A.2

Contact List

**Kitchener Sanitary Master Plan
Agency Contact List
165640334**

First Name	Last Name	Title	Company/Organization	Address 1	Address 2	City	Province	Postal Code	Telephone	Fax	Email
Federal Agencies											
			Fisheries and Oceans Canada	Suite 304	3027 Harvester Road	Burlington	ON	L7R 4K3			fisheriesprotection@dfo-mpo.gc.ca
Provincial Agencies											
Joan	Del Villar Cuicas	Environmental Resource Planner & EA Coordinator (Acting)	Ministry of the Environment Conservation and Parks	8th Floor	135 St Clair Ave W	Toronto	ON	M4V 1P5	365-366-8185		joan.delvillarcuicas@ontario.ca
Sir/Madam			Ministry of the Environment Conservation and Parks								eanotification.wregion@ontario.ca
Nancy	Rutherford	Rural Planner	Ministry of Agriculture, Food and Rural Affairs	Elora Resource Centre, Unit 10	6484 Wellington Road 7	Elora	ON	N0B 1S0	226-962-2139		nancy.rutherford@ontario.ca
Sir/Madam			Ministry of Agriculture, Food and Rural Affairs	Elora Resource Centre, Unit 10	6484 Wellington Road 7	Elora	ON	N0B 1S0	519-846-3393		omafra.eanotices@ontario.ca
Erick	Boyd	Manager, Community Planning and Development	Ministry of Municipal Affairs & Housing, Municipal Services Office - Western	2nd Floor	659 Exeter Road	London	ON	N6E 1L3	519-873-4025		erick_boyd@ontario.ca
Andrew	Sturgess	Manager, West Region (Acting)	Ministry of Citizenship and Multiculturalism	2nd Floor	4275 King Street	Kitchener	ON	N2P 2E9	647-539-3645		andrew.sturgess@ontario.ca
Joseph	Harvey	Heritage Planner	Ministry of Citizenship and Multiculturalism	Suite 1700	401 Bay Street	Toronto	ON	M7A 0A7	416-314 7120		joseph.harvey@ontario.ca
Karla	Barboza	Team Lead, Heritage	Ministry of Citizenship and Multiculturalism	Suite 1700	401 Bay Street	Toronto	ON	M7A 0A7	416-314 7120		karla.barboza@ontario.ca
Ashley	Johnson	Indigenous Relations Unit	Ministry of Indigenous Affairs	Suite 400	160 Bloor St. E	Toronto	ON	M7A 2E6	416-326-4214		Ashley.Johnson@ontario.ca
Lise	Chabot	Director, Indigenous Relations Branch	Ministry of Indigenous Affairs	Suite 400	160 Bloor St. E	Toronto	ON	M7A 2E6	416-325-7032		lise.chabot@ontario.ca
Sir/Madam			Infrastructure Ontario								NoticeReview@infrastructureontario.ca
Lisa	Myslicki	Environmental Specialist	Infrastructure Ontario	Suite 2000	1 Dundas St. W	Toronto	ON	M5G 1Z3	416-557-3116		lisa.myslicki@infrastructureontario.ca
Conservation Authority											
Beth	Brown	Supervisor of Resources Planning	Grand River Conservation Authority	P.O. Box 729	400 Clyde Road	Cambridge	ON	N1R 5W6	519-621-2763, ext. 2307		bbrown@grandriver.ca
Trevor	Heywood	Waterloo, Wilmot, Woolwich, North Kitchener Planner	Grand River Conservation Authority	P.O. Box 729	400 Clyde Road	Cambridge	ON	N1R 5W6	519-621-2763, ext. 2292		theywood@grandriver.ca
Chris	Foster-Pengelly	Resource Planner (South Kitchener, Wellesley, North Woolwich)	Grand River Conservation Authority	P.O. Box 729	400 Clyde Road	Cambridge	ON	N1R 5W6	519-621-2763, ext. 2319		cfosterpengelly@grandriver.ca
Committees and Stakeholder Groups											
		Region of Waterloo Ecological and Environmental Advisory Committee	Region of Waterloo	8th Floor	150 Frederick Street	Kitchener	ON	N2G 4J3	519-575-4501		regionalclerk@regionofwaterloo.ca
Bridget	Coady	Region of Waterloo Heritage Planning Advisory Committee	Region of Waterloo	8th Floor	150 Frederick Street	Kitchener	ON	N2G 4J3	(519) 575-4500 x. 3112		bcoady@regionofwaterloo.ca
Marie	Schroeder	Executive Officer	Waterloo Region Home Builders Association	Suite 1C	625 King Street East	Kitchener	ON	N2G 4V4	519-884-7590		marie-schroeder@wrhba.com
Ian	McLean	President & CEO	Greater Kitchener Waterloo Chamber of Commerce	P.O. Box 2367	80 Queen Street North	Kitchener	ON	N2H 6L4	519-749-6038		imclean@greaterkwchamber.com
Roy	Brower	Executive Director	University of Waterloo Water Institute		200 University Avenue West	Waterloo	ON	N3L 3G1	519-888-4567, ext. 42658		water.institute@uwaterloo.ca
Utilities											
David	Pitchforth	Project Supervisor, OSP Network Implementation	Allstream		50 Worcester Road	Etobicoke	ON	M9W 5X2	Telephone: 416-649-7539 Mobile: 416-727-5811	416-649-7500	CanCustomerService@allstream.com
Daniel	Steffler	Kitchener/Waterloo, Access Network Provisioning	Bell Canada	1st Floor	575 Riverbend Drive	Kitchener	ON	N2K 3S3	519-744-0569	519-744-3082	daniel.steffler@bell.ca
Russell	McLean		Enbridge Gas Distribution Inc. Enbridge Pipelines	P.O. Box 650		Scarborough	ON	M1K 5E3	416-447-4911		russ.mclean@enbridge.com est_req_crossing@enbridge.com
Susan	Sun		Hydro One Networks Inc, Secondary Land Use	15th Floor	483 Bay Street	Toronto	ON	M5G 2P5			susan.sun@hydroone.com
		Asset Optimization, Strategy & Integrated Planning	Hydro One Networks Inc, Secondary Land Use	15th Floor	483 Bay Street	Toronto	ON	M5G 2P5			secondarylanduse@hydroone.com
Sir/Madam			Kitchener-Wilmot Hydro Inc.	P.O. Box 9010	301 Victoria Street South	Kitchener	ON	N2G 4L2	519-745-4771		customerservice@kwhydro.ca
Richard	Bolliger	Outside Plant Engineering	Rogers Cablesystems Inc.	P.O. Box 488	85 Grand Crest Place	Kitchener	ON	N2G 4A8	519-894-8188 #8142		richard.bollinger@rci.rogers.com
Robert	Quick		Telus		82 Locust Street	Kitchener	ON	N2H 1W9			Bob.quick@telus.com
Kevin	Schimus	Distribution System Development	Enbridge (Union Gas Ltd.)	P.O. Box 340	603 Kumpf Drive	Waterloo	ON	N2J 1K3	519-885-7513		kschimus@uniongas.com
Rick	Bigelow	Utilities Service Manager	Enbridge (Union Gas Ltd.)		603 Kumpf Drive	Waterloo	ON	N2V 1K3	519-885-7405		rbigelow@uniongas.com
Rocket	Wei	Engineering Supervisor	Waterloo-North Hydro Inc.		526 Country Squire Road	Waterloo	ON	N2J 4G8	519-888-5572		RWei@wnhydro.com
			Kitchener Utilities		131 Goodrich Drive	Kitchener	ON	N2C 2E8	519-741-2529		www.kitchenerutilities.ca (contact us)
Municipal Departments											
Kris	Fletcher	Regional Clerk	Region of Waterloo	2nd Floor	150 Frederick Street	Kitchener	ON	N2G 4J3	519-575-4029		regionalclerk@regionofwaterloo.ca

**Kitchener Sanitary Master Plan
Agency Contact List
165640334**

Sir/Madam		Department of Planning, Development and Legislative Services	Region of Waterloo	2nd Floor	150 Frederick Street	Kitchener	ON	N2G 4J3	519-575-4400		via www.regionofwaterloo.ca general email
Sir/Madam		Department of Transportation and Environmental Services	Region of Waterloo	2nd Floor	150 Frederick Street	Kitchener	ON	N2G 4J3	519-575-4400		transportation@regionofwaterloo.ca
Cameron	Rapp	Commissioner, Integrated Planning & Public Works	City of Waterloo		100 Regina Street South	Waterloo	ON	N2J 4A8	519-747-8763		cameron.rapp@waterloo.ca
Olga	Smith	Clerk, Commissioner, Corporate Services	City of Waterloo		100 Regina Street South	Waterloo	ON	N2J 4A8	519-747-8703		olga.smith@waterloo.ca
Sir/Madam		Clerk	City of Cambridge		50 Dickson Street	Cambridge	ON	N1R 5W8	519-623-1340		questions@cambridge.ca
Sir/Madam		Director, Infrastructure Services	City of Cambridge		50 Dickson Street	Cambridge	ON	N1R 5W8	519-623-1340		questions@cambridge.ca
Jeff	Molenhuis	Director, Public Works	Township of Wilmot		60 Snyder's Road West	Baden	ON	N3A 1A1	519-634-8444		jeff.molenhuis@wilmot.ca
Dawn	Mittelholtz	Director of Clerk's Services	Township of Wilmot		60 Snyder's Road West	Baden	ON	N3A 1A1	519-634-8519 x230		dawn.mittelholtz@wilmot.ca
Jared	Puppe	Director, Engineering Services	Township of Woolwich	P.O. Box 158	24 Church Street West	Elmira	ON	N3B 2Z6	519-669-1647, ext. 6029		jpuppe@woolwich.ca
Carter	Maquire	Manager of Operations	Township of Woolwich	P.O. Box 158	24 Church Street West	Elmira	ON	N3B 2Z6	519-669-1647, ext. 6045		cmaguire@woolwich.ca
Ryan	Tucker	Engineering Project Supervisor	Township of Woolwich	P.O. Box 158	24 Church Street West	Elmira	ON	N3B 2Z6	519-669-1647, ext. 6048		rtucker@woolwich.ca
City of Kitchener Staff and Elected Officials											
To be distributed by the City of Kitchener											
Indigenous Communities											
Mark	Laforme	Consultation Manager, Department of Consultation and Accommodation	Mississaugas of the Credit First Nation		4065 Hwy 6 North	Hagersville	ON	N0A 1H0	905-768-4260		mark.laforme@mncfn.ca ; doca.admin@mncfn.ca
Peter	Graham	Consultation Supervisor, Lands and Resources Department	Six Nations of the Grand River Territory	P.O Box 5000	2498 Chiefswood Rd	Ohswegen	ON	N0A 1M0	519-753-0665		LRCs@sixnations.ca ; LRCs@sixnations.ca
Dawn	Russell	Consultation Administrative Assistant, Lands and Resources Department	Six Nations of the Grand River Territory		2498 Chiefswood Rd	Ohswegen	ON	N0A 1M0	519-753-0665		dawnrussell@sixnations.ca ; dawnrussell@sixnations.ca
Lori-Jeanne	Bolduc	Project Coordinator - Ontario Huron-Wendat Nation	Huron-Wendat Nation		255 Place Chef Michel-Laveau	Wendake	QC	G0A 4V0	418-843-3767		lori-jeanne.bolduc@wendake.ca
Mario	Gros Louis	Project Coordinator - Ontario Huron-Wendat Nation	Huron-Wendat Nation		255 Place Chef Michel-Laveau	Wendake	QC	G0A 4V0	418-843-3767		mario.groslois@wendake.ca
Emergency Services											
Mark	Crowell	Chief	Waterloo Regional Police Services		200 Maple Grove Road, PO Box 3070	Cambridge	ON	N3H 5M1	519-570-9777		mark.crowell@wrps.on.ca ; cherri.greeno@wrps.on.ca
John	Riches	Chief	Region of Waterloo Paramedic Services		120 Maple Grover Road	Cambridge	ON	N3H 4R6	519-575-4400		riches@regionofwaterloo.ca
Robert	Gilmore	Chief	City of Kitchener Fire Department		270 Strasburg Road	Kitchener	ON	N2E 3M6	519-741-2496		bob.gilmore@kitchener.ca

APPENDIX A.3

Notice of Study Commencement

From: [Kielstra, David](#)
Cc: [Jean Hao](#); [Hohner, Paula](#); [Paul, Jeff](#)
Bcc: ["cynthia.mitton-wilkie@dfo-mpo.gc.ca"](#); ["nancy.rutherford@ontario.ca"](#); ["omafra.eanotices@ontario.ca"](#); ["erick.boyd@ontario.ca"](#); ["karina.cerniavskaja@ontario.ca"](#); ["chris.stack@ontario.ca"](#); ["karla.barboza@ontario.ca"](#); ["Ashley.Johnson@ontario.ca"](#); ["heather.levacqua@ontario.ca"](#); ["lisa.myslicki@infrastructureontario.ca"](#); ["NoticeReview@infrastructureontario.ca"](#); ["bbrown@grandriver.ca"](#); ["thaywood@grandriver.ca"](#); ["cfosterpengelly@grandriver.ca"](#); ["KHagerman@regionofwaterloo.ca"](#); ["bcoady@regionofwaterloo.ca"](#); ["marie-schreder@wrhba.com"](#); ["imclean@greaterkwchamber.com"](#); ["cody.boomer@kitchener.ca"](#); ["water.institute@uwaterloo.ca"](#); ["david.pitchforth@allstream.com"](#); ["daniel.steffler@bell.ca"](#); ["russ.mclean@enbridge.com"](#); ["est.reg.crossing@enbridge.com"](#); ["rossella.fazio@HydroOne.com"](#); ["secondarylanduse@hydroone.com"](#); ["sferneyhough@kwhydro.ca"](#); ["bmckague@kwhydro.ca"](#); ["richard.bollinger@rci.rogers.com"](#); ["Bob.quick@telus.com"](#); ["kschimus@uniongas.com"](#); ["rbigelow@uniongas.com"](#); ["RWei@wnhydro.com"](#); ["Kfletcher@regionofwaterloo.ca"](#); ["transportation@regionofwaterloo.ca"](#); ["cameron.rapp@waterloo.ca"](#); ["olga.smith@waterloo.ca"](#); ["questions@cambridge.ca"](#); ["jeff.molenhuis@wilmot.ca"](#); ["dawn.mittelholtz@wilmot.ca"](#); ["jpuppe@woolwich.ca"](#); ["cmaquire@woolwich.ca"](#); ["bryan.larkin@wrps.on.ca"](#); ["cherri.greeno@wrps.on.ca"](#); ["amy.shaw@ontario.ca"](#); ["michael.spencer@ontario.ca"](#)
Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Thursday, September 2, 2021 10:49:00 AM
Attachments: [not_kitchener_sanitaryMP_NOSC_AODA.pdf](#)

Hello,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached Notice of Study Commencement for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP
Environmental Planner
Direct: 905 381-3247
Fax: 905 385-3534
David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: [Kielstra, David](#)
Cc: [Jean Hao](#); [Hohner, Paula](#); [Paul, Jeff](#)
Bcc: marie-schroeder@wrhba.com; fisheriesprotection@dfo-mpo.gc.ca; regionclerk@regionofwaterloo.ca; CanCustomerService@allstream.com; sferneyhough@kwhydro.on.ca; bmckague@kwhydro.on.ca; theywood@grandriver.ca; amy.shaw@ontario.ca
Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Thursday, September 2, 2021 11:46:00 AM
Attachments: [not_kitchener_sanitaryMP_NOSC_AODA.pdf](#)

Hello,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

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If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP

Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec

200-835 Paramount Drive

Stoney Creek ON L8J 0B4



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From: Mitton-Wilkie, Cynthia J <Cynthia.Mitton-Wilkie@DFO-MPO.GC.CA>
Sent: Thursday, September 02, 2021 10:56 AM
To: Kielstra, David
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hi David,

Please remove me from the distribution list. Any correspondence regarding projects should be sent to Fisheries and Oceans Canada's triage unit at:

General inquiries: 1 855 852-8320
Project Referrals: fisheriesprotection@dfo-mpo.gc.ca

Thanks,

Cindy Mitton-Wilkie
(She/Her | Elle/Son)

Fisheries and Oceans Canada
Ontario and Praries Region
Team Leader, Integrated Planning
867 Lakeshore Road, Burlington, Ontario, L7S 1A1
tel. / tél.: (905) 336-4821
cell: (905) 630-8053
e-mail: cynthia.mitton-wilkie@dfo-mpo.gc.ca

FFHPP web site / site web : <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>
General inquiries: 1 855 852-8320
Project Referrals: fisheriesprotection@dfo-mpo.gc.ca

From: Kielstra, David <David.Kielstra@stantec.com>
Sent: Thursday, September 2, 2021 10:52 AM
Cc: Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>
Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hello,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached Notice of Study Commencement for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP
Environmental Planner

From: Jean Hao <Jean.Hao@kitchener.ca>
Sent: Tuesday, November 02, 2021 2:10 PM
To: Chris Foster-Pengelly <cfosterpengelly@grandriver.ca>
Cc: Paul, Jeff <jeff.paul@stantec.com>; Hohner, Paula <Paula.Hohner@stantec.com>; Nick Gollan <nick.gollan@kitchener.ca>
Subject: RE: Notice of Study Commencement - Integrated Sanitary Master Plan

Hi Chris,

Thanks for letting us know. We will add you to the contact list.

Best regards,

Jean Hao, P.Eng., PMP

Design & Construction Project Manager, Utility Planning and Programs| Sanitary and Stormwater Utilities | City of Kitchener
Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Chris Foster-Pengelly <cfosterpengelly@grandriver.ca>
Sent: Tuesday, November 2, 2021 1:38 PM
To: Jean Hao <Jean.Hao@kitchener.ca>; Jeff.Paul@stantec.com
Subject: [EXTERNAL] Notice of Study Commencement - Integrated Sanitary Master Plan

Hi Jean, Jeff,

I am confirming that that Grand River Conservation Authority would like to be involved and added to the contact list. If there is anything that you require from the GRCA, please let me know.

Thank you,
Chris

Chris Foster-Pengelly, M.Sc.
Resource Planner
Grand River Conservation Authority
400 Clyde Road
Cambridge, ON N1R 5W6
P: (519) 621-2763 x2319
F: (519) 621-4844
www.grandriver.ca

From: Kielstra, David
Sent: Friday, September 17, 2021 11:31 AM
To: 'Susan.SUN@HydroOne.com' <Susan.SUN@HydroOne.com>
Cc: 'SecondaryLandUse@HydroOne.com' <SecondaryLandUse@HydroOne.com>; Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>; Hohner, Paula <Paula.Hohner@stantec.com>; Bhatia, Faiz <Faiz.Bhatia@stantec.com>; 'Amy Furtado' <Amy.Furtado@kitchener.ca>; Nick Gollan <nick.gollan@kitchener.ca>
Subject: RE: City of Kitchener Integrated Sanitary Master Plan (ISAN-MP) - Hydro One

Hello Susan,

Thank you for your comments regarding the City of Kitchener Integrated Sanitary Master Plan (ISAN-MP). Your information is appreciated and will be considered as we move forward with the project background review and evaluation of alternative solutions for the Municipal Class Environmental Assessment Process. If a potential conflict is identified with your assets, a member of the project team will contact you to provide further information. You will continue to be on the project mailing list for future notifications.

Should you have any further questions or concerns, please contact Jean Hao at the City of Kitchener by telephone at 519-741-2200, ext. 4156, or by email jean.hao@kitchener.ca, or contact the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner
Direct: 905 381-3247
Fax: 905 385-3534
David.Kielstra@stantec.com
Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Susan.SUN@HydroOne.com <Susan.SUN@HydroOne.com> **On Behalf Of**
Department.SecondaryLandUse@hydroone.com

Sent: Wednesday, September 15, 2021 1:43 PM

To: Jean Hao <Jean.Hao@kitchener.ca>

Subject: [EXTERNAL] Hydro One Response: Integrated Sanitary Master Plan

Please see the attached for Hydro One's Response.

Hydro One Networks Inc

SecondaryLandUse@HydroOne.com

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Hydro One Networks Inc
483 Bay St
Toronto, ON

September 15, 2021

Re: Integrated Sanitary Master Plan

Attention:

Jean Hao, P.Eng., PMP
Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener

Thank you for sending us notification regarding (Integrated Sanitary Master Plan). 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 (Integrated Sanitary Master Plan) 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.

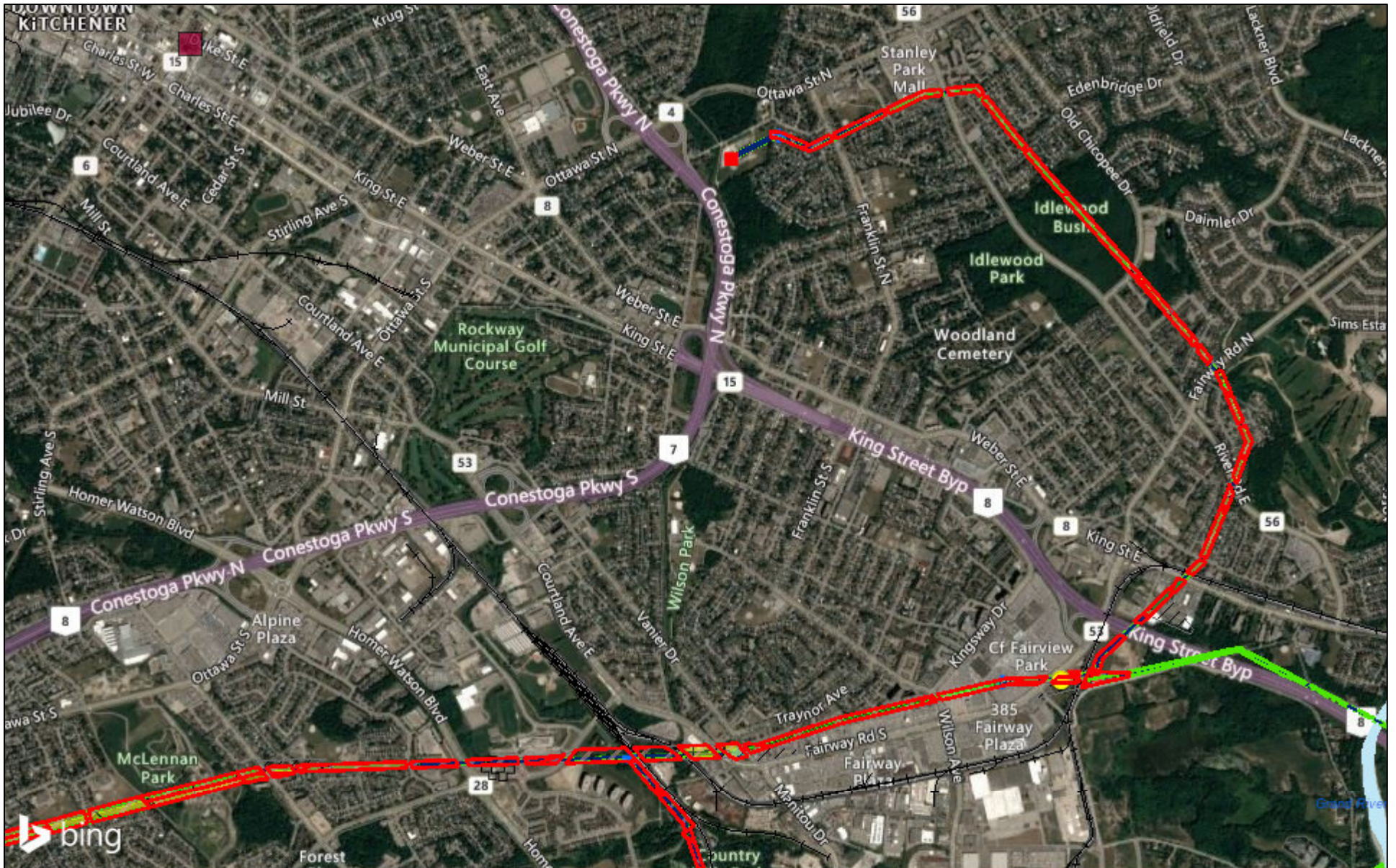
Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

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

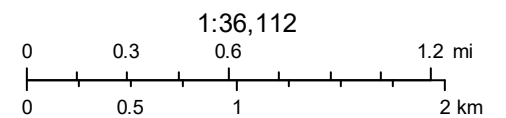
Sent on behalf of,

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

Landscape PDF



September 3, 2021



From: [Kielstra, David](#)
To: [Harvey, Joseph \(MHSTCI\)](#)
Cc: [Hohner, Paula](#); [Barboza, Karla \(MHSTCI\)](#); [Jean Hao](#); [Paul, Jeff](#)
Subject: RE: File 0015079: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Wednesday, October 13, 2021 12:12:00 PM

Hello Joseph,

Thank you for your email and letter September 23, 2021 regarding the City of Kitchener Integrated Sanitary Master Plan. Your interest in this project is appreciated.

The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage (cultural heritage and archaeology) environments to satisfy the requirements of the Municipal Class Environmental Assessment process. This will include a review of the Municipal Heritage Register and City of Kitchener Cultural Heritage Landscape Study for listed properties, as well as documents such as the Official Plan which identify heritage conservation districts. The project team will also consult heritage mapping for heritage status information. The existing baseline cultural heritage conditions will be screened in accordance with the checklists referenced in your letter to determine if an archaeological assessment or further heritage reports may be required.

Individual projects will be identified as part of the Master Plan process and are not known at this time. Once individual projects are determined, the Master Plan will include recommendations for further study. An electronic copy of technical studies will be provided to your email address upon project completion.

We look forward to ongoing consultation with MHSTCI as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

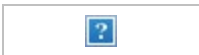
Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec

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From: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>

Sent: Thursday, September 23, 2021 3:25 PM

To: Paul, Jeff <jeff.paul@stantec.com>

Cc: Kielstra, David <David.Kielstra@stantec.com>; Hohner, Paula <Paula.Hohner@stantec.com>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Jean Hao <Jean.Hao@kitchener.ca>

Subject: File 0015079: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Jeff Paul,

Please find attached MSHTCI's initial advice on the above referenced undertaking.
Please do not hesitate to contact me with any questions or concerns.

Regards,

Joseph Harvey | Heritage Planner

Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit

Ministry of Heritage, Sport, Tourism and Culture Industries

613.242.3743

Joseph.Harvey@ontario.ca

**Ministry of Heritage, Sport,
Tourism and Culture Industries**

Programs and Services Branch
400 University Ave, 5th Flr
Toronto, ON M7A 2R9
Tel: 613.242.3743

**Ministère des Industries du Patrimoine,
du Sport, du Tourisme et de la Culture**

Direction des programmes et des services
400, av. University, 5e étage
Toronto, ON M7A 2R9
Tél: 613.242.3743



September 23, 2021

EMAIL ONLY

Jeff Paul, P.Eng.
Project Manager
Stantec Consulting Ltd.
600-171 Queens Avenue
London ON N6A
Jeff.Paul@stantec.com

MHSTCI File : 0015079
Proponent : City of Kitchener
Subject : Notice of Study Commencement - Master Plan
Project : Integrated Sanitary Master Plan
Location : City of Kitchener

Dear Jeff Paul:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Study Commencement for this project. MHSTCI's interest in this master plan relates to its mandate of conserving Ontario's cultural heritage, which includes archaeological resources, built heritage resources and cultural heritage landscapes.

MHSTCI understands that master plans are long range plans which integrate infrastructure requirements for existing and future land use with environmental assessment planning principles. The Municipal Class Environmental Assessment (MCEA) outlines a framework for master plan and associated studies which should recognize the planning and design process of this Class EA and should incorporate the key principles of successful environmental assessment planning identified in Section A.1.1. The master planning process will, at minimum, address Phases 1 and 2 of the Planning and Design Process of the MCEA.

This letter provides advice on how to incorporate consideration of cultural heritage in the above-mentioned master planning process by outlining the technical cultural heritage studies and the level of detail required to address cultural heritage in master plans. In accordance with the MCEA, cultural heritage resources should be identified early in the process in order to determine known and potential resources and potential impacts.

Master Plan Summary

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act.

Identifying Cultural Heritage Resources

MHSTCI understands that the final public notice for the master plan could become the notice of completion for the Schedule B and C MCEAs within it and that this approach would likely result in extensive documentation should the master plan include numerous Schedule C MCEA undertakings. In regards to cultural heritage resources the Master Plan Document should;

- identify existing baseline environmental conditions,
- identify expected environmental impacts and,
- Include measures to mitigate potential negative impacts.

Archaeological Resources

Any undertakings as part of the master plan should be screened using the MHSTCI [Criteria for Evaluating Archaeological Potential](#) to determine if an archaeological assessment is needed. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licensed under the Ontario Heritage Act and submitted for MHSTCI review prior to the completion of the master plan.

Built Heritage Resources and 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.

Where a known or potential built heritage resource or cultural heritage landscape may be directly and adversely impacted, and where it has not yet been evaluated for Cultural Heritage Value or Interest (CHVI), completion of a Cultural Heritage Evaluation Report (CHER) is required to fully understand its CHVI and level of significance. The CHER must be completed as part of the final EA report. If a potential resource is found to be of CHVI, then a Heritage Impact Assessment (HIA) will need to be undertaken and included in the final EA report. Our Ministry's [Info Sheet #5: Heritage Impact Assessments and Conservation Plans](#) outlines the scope of HIAs. Please send the HIA to MHSTCI for review and make it available to local organizations or individuals who have expressed interest in review.

While some cultural heritage landscapes are contained within individual property boundaries, others span across multiple properties. For certain cultural heritage landscapes, it will be more appropriate for the CHER and HIA to include multiple properties, in order to reflect the extent of that cultural heritage landscape in its entirety.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, community heritage registers, 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

Technical cultural heritage studies are to 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. Please advise MHSTCI whether any technical heritage studies will be completed for this master plan and provide them to MHSTCI before issuing a Notice of Completion.

Thank you for consulting MHSTCI on this project. Please continue to do so through the master plan process and contact myself with any questions or clarification.

Sincerely,

Joseph Harvey
Heritage Planner
Heritage Planning Unit
joseph.harvey@ontario.ca

Copied to: Jean Hao, Design & Construction Project Manager, City of Kitchener
David Kielstra, Environmental Planner, Stantec
Paula Hohner, Statec

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](#) 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*.

From: [Hohner, Paula](#)
To: [Thornton, Cathy](#)
Cc: [Kielstra, David](#)
Subject: FW: City of Kitchener Integrated Sanitary Master Plan
Date: Friday, October 1, 2021 12:15:03 PM

FYI and for action.
Thank you

Paula Hohner, MScPI, MCIP, RPP

Associate, Senior Environmental Planner
Environmental Team Lead - Transportation
Stantec
600-171 Queens Avenue London ON N6A 5J7
Phone: 519-675-6666
Mobile: 226-926-6682
paula.hohner@stantec.com

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From: Jean Hao <Jean.Hao@kitchener.ca>
Sent: Friday, October 01, 2021 11:06 AM
To: 'Randy Miller' <rmiller@woolwich.ca>
Cc: Jared Puppe <JPuppe@woolwich.ca>; Ryan Tucker <rtucker@woolwich.ca>; Paul, Jeff <jeff.paul@stantec.com>; Nick Gollan <nick.gollan@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>
Subject: RE: City of Kitchener Integrated Sanitary Master Plan

Hi Randy,

Thanks for letting us know, we will add you and Ryan Tucker to the contact list.

Have a great day!

Jean Hao, P.Eng., PMP

Design & Construction Project Manager, Utility Planning and Programs | Sanitary and Stormwater Utilities | City of Kitchener
Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Randy Miller <rmiller@woolwich.ca>
Sent: Friday, October 1, 2021 11:00 AM
To: Jean Hao <Jean.Hao@kitchener.ca>; Jeff.Paul@stantec.com
Cc: Jared Puppe <JPuppe@woolwich.ca>; Ryan Tucker <rtucker@woolwich.ca>
Subject: [EXTERNAL] City of Kitchener Integrated Sanitary Master Plan

Hi Jean,

Sorry for the late response. Could you add Ryan Tucker and myself to the contact list for the EA as contacts for Woolwich Township. Thanks.

The Administration Office is **open to walk-in public traffic**, with staff working a mix of in office and from home. It is recommended to book an appointment before visiting the office to ensure we are available to assist you. A number of our services can be accessed through our website, by email or by telephone.

Regards

Randy Miller
Development Engineering Supervisor
Development Services
Township of Woolwich
Direct Dial 519-669-6030
Fax 519-669-4669

From: [Kielstra, David](#)
To: [MNRF Ayl Planners \(NDMNRF\)](#)
Cc: [Hohner, Paula](#); [Jean Hao](#); [Paul, Jeff](#)
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Wednesday, October 13, 2021 9:58:00 AM
Attachments: [image001.png](#)
[image002.png](#)

Hello Karina,

Thank you for your email September 28, 2021 regarding the City of Kitchener Integrated Sanitary Sewer Master Plan (ISAN-MP). Your interest in this project is appreciated.

The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage environments to satisfy the requirements of the Municipal Class Environmental Assessment process. The review includes LIO data as well as Official Plan mapping for the City of Kitchener and Region of Waterloo Natural Heritage System (NHS). The background review will be considered as part of the identification of potential projects for the Master Plan and their evaluation as part of the Municipal Class Environmental Assessment process.

Individual projects will be identified as part of the Master Plan process and are not known at this time. Once individual projects are determined, the Master Plan will include recommendations for further study if the projects interact with the natural features. The project team will also consider the regulatory information you provided in your email to determine whether the legislation may be applicable to any of the projects to be identified.

We look forward to ongoing consultation with NDMNRF as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec

200-835 Paramount Drive

Stoney Creek ON L8J 0B4



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From: MNRF Ayl Planners (NDMNRF) <MNRF.Ayl.Planners@ontario.ca>

Sent: Tuesday, September 28, 2021 9:10 AM

To: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>

Cc: Hohner, Paula <Paula.Hohner@stantec.com>; Kielstra, David <David.Kielstra@stantec.com>

Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

From: MNRF Ayl Planners (NDMNRF) <MNRF.Ayl.Planners@ontario.ca>
Sent: Tuesday, September 28, 2021 9:10 AM
To: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Cc: Hohner, Paula <Paula.Hohner@stantec.com>; Kielstra, David <David.Kielstra@stantec.com>
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan



**Ministry of Northern Development,
Mines, Natural Resources
and Forestry**

**Ministère du Développement du Nord
des Mines, des Richesses naturelles
et des Forêts**

September 28, 2021

Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

The Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) received the notice for the City of Kitchener Integrated Sanitary Master Plan. 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.

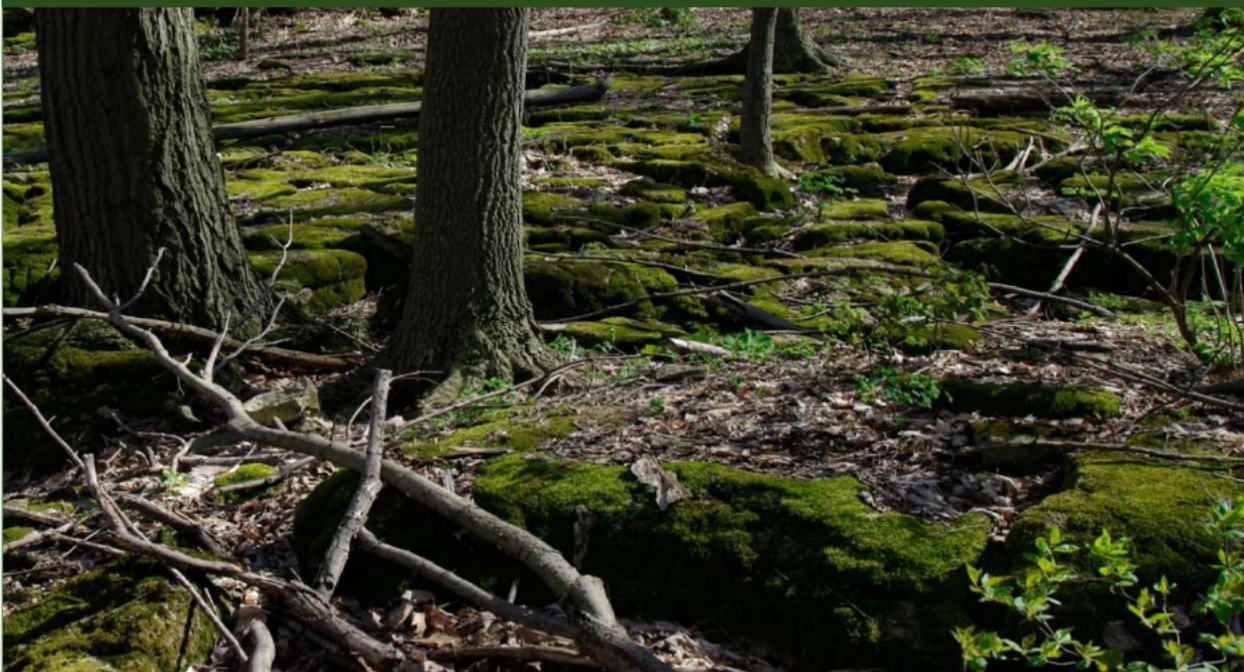
Sincerely,
Karina

Karina Černiavskaja | District Planner

Ministry of Northern Development, Mines, Natural Resources and Forestry

Email: MNRF.Ayl.Planners@ontario.ca

Ministry of Natural Resources and Forestry



Natural Heritage Information Request Guide

Regional Operations Division, Ministry of
Natural Resources & Forestry

Update – April 1, 2019

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1.0 Background, Purpose and Scope

1.1 Background

The Ministry of Natural Resources and Forestry (MNRF) maintains a substantial amount of natural heritage information. The Government of Ontario is committed to transparency, customer service, and making information more publicly accessible. Access to natural heritage information is critical to informing municipal planning processes, development activities, and other initiatives such as science and research. To make natural heritage information more accessible and better understood, this document consolidates available MNRF natural heritage information and outlines how this information can be accessed.

1.2 Purpose of this Guide

The purpose of this guide is three-fold:

1. To provide a directory of natural heritage information sources available from the MNRF;
2. To reduce wait times for users to access the data, especially considering that much of the information is open and accessible; and
3. To help users efficiently access available data.

It remains the proponent's responsibility to:

- Complete a preliminary screening for their projects,
- Obtain available information from multiple sources,
- Conduct any necessary field studies, and
- Consider any potential environmental impacts that may result from a proposed activity.

To provide the most efficient service possible, proponents should complete natural heritage screenings **prior** to contacting Government of Ontario Ministry offices or other agencies for more detailed technical information and advice. This guide provides detailed information on where and how to access information to screen a study area in advance of consulting with Ministries.

1.3 Scope

MNRF maintains and provides information related to its resource management and land use planning mandate, including natural heritage, fisheries, wildlife, mineral aggregate resources, crown lands, protected lands and more. This information is made available to organizations, private individuals, consultants, and developers through online sources and is often considered under various pieces of legislation or as part of regulatory

approvals and planning processes. This guide has been created to help users navigate the available natural heritage information to support various activities. This guide additionally provides a list of other sources of information beyond MNRF, although it is not intended to be an exhaustive list of available sources.

This guide does not replace the Natural Heritage Reference Manual but is intended to support it. This guide is not intended to circumvent any field studies that may be necessary to document features and assess impacts.

This guide is a resource for proponents during project planning. Reviewing the layers listed in the appendices will enable proponents to prepare for both proponent and government led Environmental Assessments. For projects proposed on crown land, MNRF is the permitting agency and there may be additional initial screening requirements. Further studies may be required depending on the nature and location of the project.

1.4 Audience

The intent of this public guide is to make it easier for the proponents and consultants to access relevant information. This guide will also help internal Ministry staff who are responding to information requests or site screenings.

1.5 Disclaimer

The information available from MNRF and the sources listed below in the appendices should **not be considered as a substitute for site visits and appropriate field surveys**. Generally, information available from MNRF can be regarded as a starting point from which to conduct further field studies, if needed. While this data represents MNRF's best available current information, it is important to note that a lack of information for a site does not mean that additional features and values are not present. There are many areas where MNRF does not currently have information. On-site assessments can better verify site conditions, identify natural features and values and confirm presence of species at risk and/or their habitats.

This guide will be updated from time to time. For a current version of this guide, please contact your local or regional Government of Ontario Ministry office. Up-to-date contact information for Ministry offices can be obtained through the Government of Ontario Employee and Organization Directory, Info-GO, available at <http://www.infogo.gov.on.ca/infogo/home.html>.

2.0 Data Resources

2.1 Make a Map: Natural Heritage Areas

The MNRF maintains the [Make a Natural Heritage Area Map](http://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US): http://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US which provides public access to natural heritage information without the user needing to have Geographic Information System (GIS) capability. It allows users to view and identify natural heritage features, mark areas of interest, and create and print a custom map directly from the web application. The tool also shows topographic information such as roads, rivers, contours and municipal boundaries.

Make a Natural Heritage Area Map should be consulted as a first step in screening for natural heritage features. This tool does not provide access to all of the MNRF's natural heritage information and some layers may be incomplete.

Users are advised that sensitive information has been removed from the natural areas dataset and the occurrences of species at risk, rare plant communities and wildlife concentration areas has been generalized to a 1-kilometre grid.

The web-based mapping tool displays natural heritage data, including:

- Generalized Species at risk occurrence data (based on a 1-km square grid),
- provincial parks and conservation reserves,
- Areas of Natural and Scientific Interest,
- Wetlands,
- Woodlands, and
- Natural Heritage Information Centre data.

Data cannot be downloaded directly from this web map, however, information included in this application is available digitally through [Land Information Ontario](https://www.ontario.ca/page/land-information-ontario): <https://www.ontario.ca/page/land-information-ontario> (LIO).

2.2 Land Information Ontario (LIO)

Most natural heritage data is publicly available. This data is managed in a large corporate database called the LIO Warehouse and can be discovered through the [LIO Metadata Management Tool](https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home): <https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home>. This tool provides descriptive information about the characteristics, quality and context of the data. Publicly available geospatial data can be downloaded directly from this site.

The LIO Metadata Management Tool helps users to find, assess and access GIS data and houses up to 350 data and information products. Geospatial data are available through this tool, including (but not limited to):

- **Aquatic Resource Area (ARA) data classes:** general fisheries spatial data including water body type, thermal regime and fish species
- **Spawning Area (fish)**
- **Nursery Area (fish)**
- **Nesting Site (birds)**
- **Areas of Natural and Scientific Interest (ANSIs)**
- **Wetlands**
- **Wintering Area (deer, moose, etc.)**
- **Fire (Potential Hazardous Forest Types for Wildland Fire)**

[Appendix A](#) links MNR's authoritative, relevant data sets to the location in the LIO Database where the data can be downloaded.

Note that while most data is publicly available, some data may be considered highly sensitive (i.e., Nursery Areas for fish, species at risk observations), and as such, restrictions are in place limiting access to this information.

2.3 Species at Risk

For detailed information on species at risk, please visit [Make a Natural Heritage Areas Map](#) or contact the Ministry of Environment, Conservation and Parks at SAROntario@ontario.ca.

2.4 Public Agencies

Ministries, Municipalities and Conservation Authorities may have proposed infrastructure work that requires screening. In these instances, these broader public sector organizations should contact the appropriate Ministry Office to explore more efficient ways to access information and make decisions. This could include entering into data sharing agreements. Please note that many public agencies already have ongoing data sharing agreements in place with LIO and the Natural Heritage Information Centre (NHIC).

2.5 For Additional Information

For information pertaining to corporate data, contact LIO for support by email at lio@ontario.ca or by telephone at 705-755-1878.

For further information pertaining to the NHIC, including data sharing agreements, please email NHICrequests@ontario.ca or call 705-755-2159.

There may be circumstances where a local Government of Ontario office should be consulted for additional information and/or technical advice. For instance, projects proposed on Crown Land should be discussed early in the project planning process with local MNR District staff.

A listing of District offices can be found on this web page <https://www.ontario.ca/page/ministry-natural-resources-and-forestry-regional-and-district-offices>

Appendix A: Natural Heritage Mapping Resources

The table below provides users links to maps and GIS data depicting natural heritage. This list is intended to help guide a natural heritage screening exercise. Click in the *Information Source* column for hyperlinks.

Information Source	Theme	Instructions for using this information
Wetland	Significant Wetlands	Use field" WETLAND_SIGNIFICANCE = Evaluated-Provincial" for provincially significant wetlands.
	Coastal Wetlands	Use field"COASTAL_IND=Yes" for Coastal Wetlands
	Fish & Wildlife, Wetlands	Support evaluation and identification of habitat and wetlands. Please consult user guide for details. Consult the User Guide for more information.
Make a Natural Heritage Areas Map	Endangered and Threatened Species	Turn on the NHIC 1 km Grid square and use the Find... tool to query for species intersecting the grid. Consult the User guide for more information.
	Fish & Wildlife Habitat	Turn on the NHIC 1 km Grid square and use the Find... tool to query for species intersecting the grid. Consult the User guide for more information.
Provincially Tracked Species 1KM Grid	Endangered and Threatened Species	Use field "SARO_STAUS= 'Endangered' or SARO_STATUS='Threatened'" for Endangered and Threatened species.
Wintering Area	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Aquatic Feeding Area	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Breeding Area	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Calving Fawning Site	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.

Information Source	Theme	Instructions for using this information
Den Site	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Feeding Area, Wildlife	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Habitat Planning Range	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Mineral Lick	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Nesting Site	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Nursery Area, Wildlife	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Resting Area	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Staging Area, Wildlife	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
Travel Corridor, Wildlife	Wildlife Habitat	Supports evaluation and identification of wildlife habitat.
ANSI	Significant Areas of Natural and Scientific Interest	Use the field "ANSI_SIGNIFICANCE = Provincial" if you need to view only Provincially Significant ANSI. Consult the User Guide for more information.
Wooded Area	Woodlands	Supports evaluation and identification of significant woodlands and wildlife habitat
ARA Line Segment	Fish Species and Habitat	Supports evaluation and identification of fish habitat by indicating fish species present in the water feature. Consult the User Guide for more information.

Information Source	Theme	Instructions for using this information
ARA Polygon Segment	Fish Species and Habitat	Supports evaluation and identification of fish habitat by indicating fish species present in the water feature. Consult the User Guide for more information.
	At Capacity Lake Trout Lakes	Use field" AT_DEVELOPMENT_CAPACITY_IND = Yes" for designated at capacity lakes
Aquatic Resource Area (ARA) Survey Point	Fish Species	Supports evaluation and identification of fish habitat by indicating fish species present at that location. Consult the User Guide for more information.
Spawning Area	Fish Habitat	Supports evaluation and identification of fish habitat
Nursery Area, Fish	Fish Habitat	Supports evaluation and identification of fish habitat
Staging Area, Fish	Fish Habitat	Supports evaluation and identification of fish habitat
Feeding Area, Fish	Fish Habitat	Supports evaluation and identification of fish habitat
Travel Corridor Fish	Fish Habitat	Supports evaluation and identification of fish habitat
Ecoregion	Ecoregions	Used to determine what ecoregion covers your area
Natural heritage System Area	Natural Heritage System	Identifies Natural Heritage System Areas within the Greenbelt Plan, the Oak Ridges Moraine Conservation Plan, the Niagara Escarpment Plan and the Growth Plan for the Greater Golden Horseshoe. Consult this guide for more information.
Breeding Bird Atlas	Wildlife Habitat	Provides additional information on the location of Breeding Birds
eBird	Wildlife Habitat	Provides additional information on bird sightings

Information Source	Theme	Instructions for using this information
Ontario Reptile and Amphibian Atlas	Wildlife Habitat	Provides additional information on Reptile and Amphibian sightings
iNaturalist	Fish & Wildlife Habitat	Provides additional information on fish & wildlife sightings

Appendix B: Natural Heritage Information Resources

The table below provides users links to Natural Heritage policies and documentation that should be referenced when conducting a natural heritage screening exercise. Click in the *Information Source* column for hyperlinks

Information Source	Theme	Description
https://www.ontario.ca/document/water-work-timing-window-guidelines	Water Work Timing windows	An information source that can be used to determine in-water work timing windows
Inland Lakes designated for Lake Trout management	Fish Habitat	A list of lakes in Ontario that are managed as Lake Trout lakes
Significant wildlife habitat guide	Wildlife Habitat	Provides detailed information on the identification, description and prioritization of significant wildlife habitat.
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 6E	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 6E
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 7E	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 7E
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 5E	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 5E
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 3E	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 3E
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 3W	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 3E
Significant wildlife habitat ecoregional criteria schedules: Ecoregion 4E	Wildlife Habitat	Provides detailed information on the description, criteria, information sources and assessment methods for significant wildlife habitat in Ecoregion 3E
Significant wildlife habitat mitigation support tool	Wildlife Habitat	Provides advice and recommendations on how to mitigate wildlife habitat during a development process
Natural heritage reference manual	Natural Heritage	Provides guidance for implementing the natural heritage policies of the Provincial policy Statement

Appendix C: Other information Sources

The table below provides users links to other data and resources that could be relevant when screening for development. Click in the *Information Source* column for hyperlinks

Information Source	Theme
Crown Land Use Policy Atlas	Crown Land
Make a Topographic Map	Base Data Mapping
Pits and Quarries	Aggregates
Aggregate resources policies and procedures	Aggregates
Aggregate resources study	Aggregates
Exploring for and extracting oil, natural gas and salt resources	Oil, Gas and Salt Resources
Petroleum wells	Oil, Gas and Salt Resources
Great Lakes – St. Lawrence River System and Large inland lakes: Technical Guides for flooding, erosion and dynamic beaches in support of natural hazards policies 3.1 of the provincial policy statement	Hazards
Adaptive Management of Stream Corridors in Ontario including Natural Hazards Technical Guides	Hazards
The Wildland Fire Risk Assessment and Mitigation Reference Manual	Hazards

Information Source	Theme
Public Lands Act	Crown Land
Crown land work permits	Crown Land
Aggregate resources	Aggregates
Lakes and Rivers Improvement Act	Crown Land
Licence to collect fish for scientific or education purposes	Fish
https://www.ontario.ca/search/data-catalogue	Base Data mapping
Fire - Potential Hazardous Forest Types for Wildland Fire	Hazards
MNR Region	Base Data mapping
MNR District	Base Data mapping
GeoBase	Base Data mapping
Mining Lands Administration System (MLAS) – Map Viewer	Mines
Geoconnections	Base Data mapping

Information Source	Theme
Ministry of Northern Development and Mines Mapping and link to Geology Ontario databases	Mines
Ministry of Environment, Conservation and Parks Data	Environment
National Air Photo Library	Aerial photos
Archives Ontario Aerial Photography	Aerial photos
GEOGratis	Base Data mapping
County Soils Maps	Base Data mapping
Forest Fire Info Map	Hazards
Agricultural Information Atlas	Agriculture
Crown Land Automated Internet Mapping System	Mines
COSINE	Base Data mapping
GEONAME	Base Data mapping
Government-wide data inventory	Base Data mapping

From: Kielstra, David
Sent: Wednesday, October 20, 2021 11:14 AM
To: Joan.DelVillarCuicas@ontario.ca
Cc: Nick Gollan; Jean Hao; Hohner, Paula; Potter, Katy (MECP; Burdon, Jeff (MECP; Ferraro, Stefanie (MECP; Whitelaw, Clarissa (MECP; Williamson, Lisa (MECP; Paul, Jeff; Bhatia, Faiz
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hello Ms. Del Villar Cuicas,

Thank you for your comments regarding the City of Kitchener Integrated Sanitary Master Plan (ISAN-MP). The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage (cultural heritage and archaeology) environments to satisfy the requirements of the Municipal Class Environmental Assessment process. Your information and "Areas of Interest" are appreciated and will be considered as we move forward with the project background review and evaluation of alternative solutions. The Master Plan process will identify specific projects to address current and future sanitary servicing needs of the community. Depending on the specific projects identified, additional assessments may be completed later in the study.

The project Notice of Study Commencement was sent to the Mississaugas of the Credit First Nation; Six Nations of the Grand River (both Elected Council and the Haudenosaunee Confederacy Chiefs Council), as well as the Huron Wendat Nation, based on previous consultation activities undertaken by the City of Kitchener. The communities will continue to remain on the project mailing list for consultation at key project milestones.

The draft Master Plan will be circulated to MECP least 30 days prior to the issuance of the Notice of Completion, as requested.

Should you have any further questions or concerns, please contact the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner
Direct: 905 381-3247
Fax: 905 385-3534
David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>
Sent: Wednesday, October 6, 2021 11:30 AM
To: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Cc: Potter, Katy (MECP) <Katy.Potter@ontario.ca>; Burdon, Jeff (MECP) <Jeff.burdon@ontario.ca>; Ferraro, Stefanie (MECP) <Stefanie.Ferraro@ontario.ca>; Whitelaw, Clarissa (MECP) <Clarissa.Whitelaw@ontario.ca>; Williamson, Lisa (MECP) <Lisa.Williamson@ontario.ca>
Subject: [EXTERNAL] RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Good afternoon Jean Hao and Jeff Paul,

Please see attached Acknowledgement letter and attachments.

Best regards,

Joan Del Villar Cuicas

Regional Environmental Planner

Project Review Unit | Environmental Assessment Branch

Ontario Ministry of the Environment, Conservation and Parks

Joan.delvillarcuicas@ontario.ca | Phone: 365-889-1180

From: Kielstra, David <David.Kielstra@stantec.com>

Sent: September 2, 2021 10:52 AM

To: EA Notices to WRegion (MECP) <eanotification.wcregion@ontario.ca>

Cc: Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>; Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>

Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

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

Hello,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached Notice of Study Commencement and Project Information Form (PIF) for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP

Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec

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Stoney Creek ON L8J 0B4



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Ministry of the Environment,
Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto [ON M4V 1P5](#)
Tel.: 416 314-8001
Fax.: 416 314-8452

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

*Direction des évaluations
environnementales*

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



October 6, 2021

Jean Hao
City of Kitchener

(Via email only)

Jeff Paul
Stantec Consulting Ltd.

Re: **City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment- Schedule B Project
Response to Notice of Commencement**

Dear Jean Hao and Jeff Paul,

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the City of Kitchener has indicated that the study is following the approved environmental planning process for a Schedule B project under the Municipal Class Environmental Assessment (Class EA).

The **updated (February 2021)** attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. **Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.**

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information provided to date and the Crown`s preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Mississaugas of the Credit First Nation
- Six Nations of the Grand River (both Elected Council and Haudenosaunee Confederacy Chiefs Council)

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "[Code of Practice for Consultation in Ontario's Environmental Assessment Process](#)". Additional information related to Ontario's Environmental Assessment Act is available online at: www.ontario.ca/environmentalassessments.

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information, including the MECP's expectations for EA report documentation related to consultation with communities.

The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right
- Consultation with Indigenous communities or other stakeholders has reached an impasse
- A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.

Please also ensure a copy of the final notice is sent to the ministry's West Central Region EA notification email account (eanotification.wcregion@ontario.ca) after the draft report is reviewed and finalized.

Should you or any members of your project team have any questions regarding the material above, please contact me at joan.delvillarcuicas@ontario.ca or 365-889-1180.

Yours truly,



Joan Del Villar C
Regional Environmental Planner – West Central Region

cc Katy Potter, Supervisor, Environmental Assessment Services, MECP
Jeff Burdon, Guelph District Manager, MECP
Lisa Williamson, Guelph District Supervisor, MECP
Clarissa Whitelaw, Guelph District Supervisor, MECP
Stephanie Ferraro, Guelph District Supervisor, MECP

Attach: Areas of Interest
A Proponent's Introduction to the Delegation of Procedural Aspects of Consultation with
Aboriginal Communities

AREAS OF INTEREST (v. February 2021)

It is suggested that you check off each section after you have considered / addressed it.

Planning and Policy

- Projects located in MECP Central Region are subject to [A Place to Grow: Growth Plan for the Greater Golden Horseshoe \(2020\)](#). Parts of the study area may also be subject to the [Oak Ridges Moraine Conservation Plan \(2017\)](#), [Niagara Escarpment Plan \(2017\)](#), [Greenbelt Plan \(2017\)](#) or [Lake Simcoe Protection Plan \(2014\)](#). Applicable plans and the applicable policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
- The [Provincial Policy Statement \(2020\)](#) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

Source Water Protection

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**
 - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.

- If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: <http://www.applications.ene.gov.on.ca/swp/en/index.php>. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the “Map Legend” bar on the left. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to [Conservation Ontario's website](#) where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in [section 1.1 of Ontario Regulation 287/07](#) made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional “local” threat activities, as approved by the MECP.

□ **Climate Change**

The document "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide) is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

● **The MECP expects proponents of Class EA projects to:**

1. Consider during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

□ **Air Quality, Dust and Noise**

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
 - A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used an evaluation criterion for all road projects.
- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#) report prepared for Environment Canada. March 2005.
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

□ **Ecosystem Protection and Restoration**

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
 - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands,

- significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
- Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
- Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

□ **Species at Risk**

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at <https://www.ontario.ca/page/species-risk>.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.
- For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

□ **Surface Water**

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.

- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA 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 EASR Regulation – O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

□ **Groundwater**

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – O. Reg. 63/16. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information.
- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

□ **Excess Materials Management**

- In December 2019, MECP 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. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don’t go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit <https://www.ontario.ca/page/handling-excess-soil>.
- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP’s current guidance document titled “[Management of Excess Soil – A Guide for Best Management Practices](#)” (2014).

- All waste generated during construction must be disposed of in accordance with ministry requirements
- **Contaminated Sites**
- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the [MECP's D-4 guideline](#) for land use considerations near landfills and dumps.
 - Resources available may include regional/local municipal official plans and data; provincial data on [large landfill sites](#) and [small landfill sites](#); Environmental Compliance Approval information for waste disposal sites on [Access Environment](#).
 - Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada's [website](#)).
 - The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.
 - Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.
- **Servicing, Utilities and Facilities**
- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
 - The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
 - Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.
 - We recommend referring to the ministry's [environmental land use planning guides](#) to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.
- **Mitigation and Monitoring**
- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the

project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.

- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

□ **Consultation**

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).
- Please include the full stakeholder distribution/consultation list in the documentation.

□ **Class EA Process**

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. **The Master Plan should clearly indicate the selected approach for conducting the plan**, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the Environmental Assessment Act, although the plan itself would not be. **Please include a description of the approach being undertaken (use Appendix 4 as a reference).**
- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.
- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.

- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

Amendments to the EAA through the Covid-19 Economic Recovery Act, 2020

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address (for projects in MECP Southwest Region, the email is eanotification.swregion@ontario.ca).

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Part II Order requests on those matters should be addressed in writing to:

Minister Jeff Yurek
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

A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

DEFINITIONS

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown – the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. PURPOSE

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. WHY IS IT NECESSARY TO CONSULT WITH ABORIGINAL COMMUNITIES?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. THE CROWN'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. THE PROPONENT'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. WHAT ARE THE ROLES AND RESPONSIBILITIES OF ABORIGINAL COMMUNITIES' IN THE CONSULTATION PROCESS?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigate any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. WHAT IF MORE THAN ONE PROVINCIAL CROWN MINISTRY IS INVOLVED IN APPROVING A PROPONENT'S PROJECT?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.

Notice of Study Commencement City of Kitchener Integrated Sanitary Master Plan

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits, as shown on the map.

The Master Plan will review existing conditions, develop an assessment of alternative solutions for sanitary servicing, and identify the preferred alternative to support planned growth across the City. The preferred alternative will be identified following a technical review of alternatives, as well as input received from agencies, Indigenous communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

How can I participate in this Study?

We want to hear from you! If you would like more information on the study or wish to be added to the contact list, please use the contact information below:

Jean Hao, P.Eng., PMP

Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener
Phone: 519-741-2200 ext. 4156
TTY: 1-866-969-9994
Email: Jean.Hao@kitchener.ca

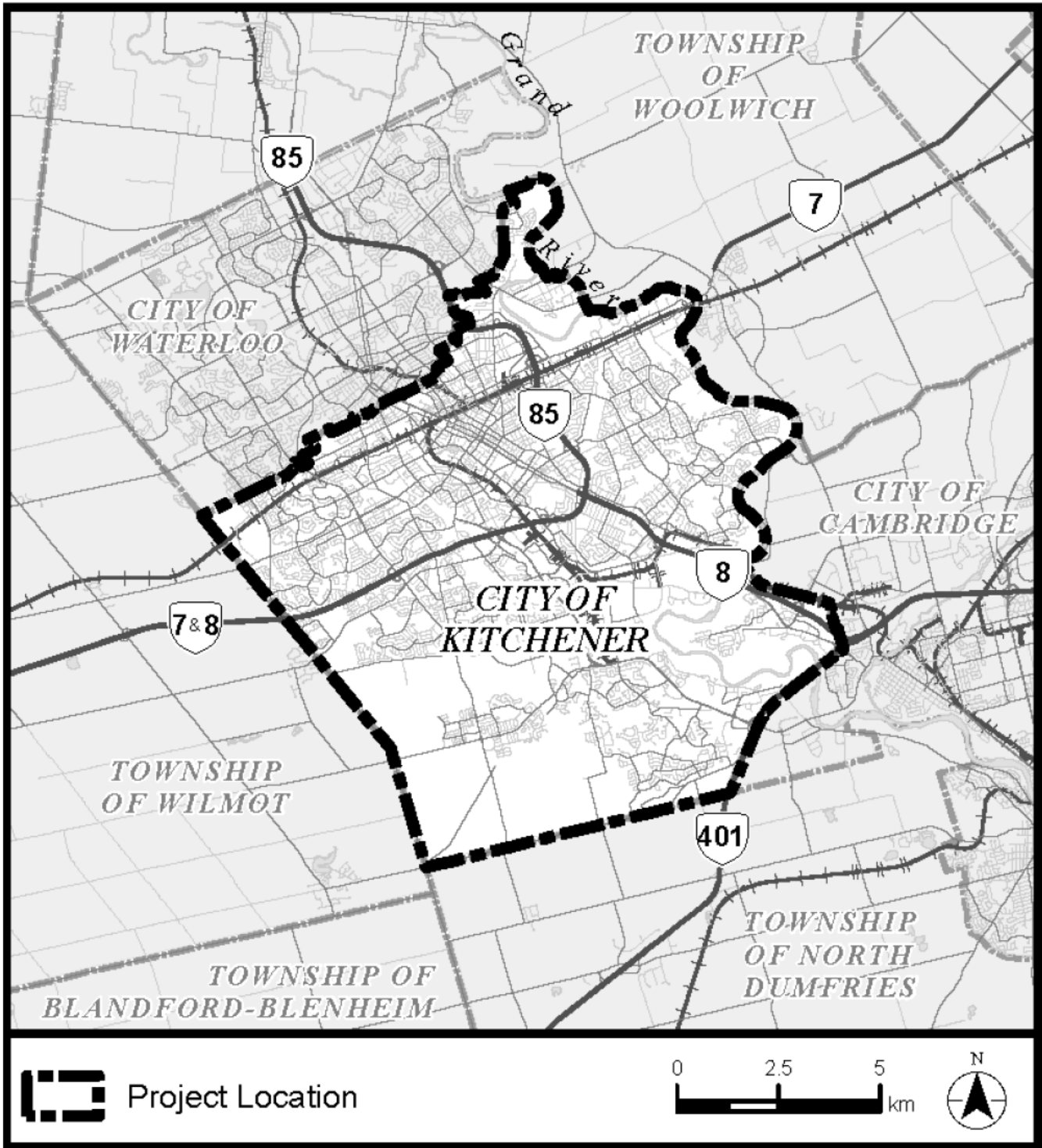
Jeff Paul, P.Eng.

Project Manager
Stantec Consulting Ltd.
600-171 Queens Avenue
London ON N6A 5J7
Phone: 519-319-5806
Email: Jeff.Paul@stantec.com

If you have any accessibility requirements in order to participate in this study, please contact the City of Kitchener Project Manager. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice issued on Thursday, September 2, 2021.

Study Area Map



Client's Guide to Preliminary Screening for Species at Risk

***Ministry of the Environment, Conservation and Parks
Species at Risk Branch, Permissions and Compliance***

DRAFT - May 2019

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1.0 Purpose, Scope, Background and Context

1.1 Purpose of this Guide

This guide has been created to:

- help clients better understand their obligation to gather information and complete a preliminary screening for species at risk before contacting the ministry,
- outline guidance and advice clients can expect to receive from the ministry at the preliminary screening stage,
- help clients understand how they can gather information about species at risk by accessing publicly available information housed by the Government of Ontario, and
- provide a list of other potential sources of species at risk information that exist outside the Government of Ontario.

It remains the client's responsibility to:

- carry out a preliminary screening for their projects,
- obtain best available information from all applicable information sources,
- conduct any necessary field studies or inventories to identify and confirm the presence or absence of species at risk or their habitat,
- consider any potential impacts to species at risk that a proposed activity might cause, and
- comply with the *Endangered Species Act* (ESA).

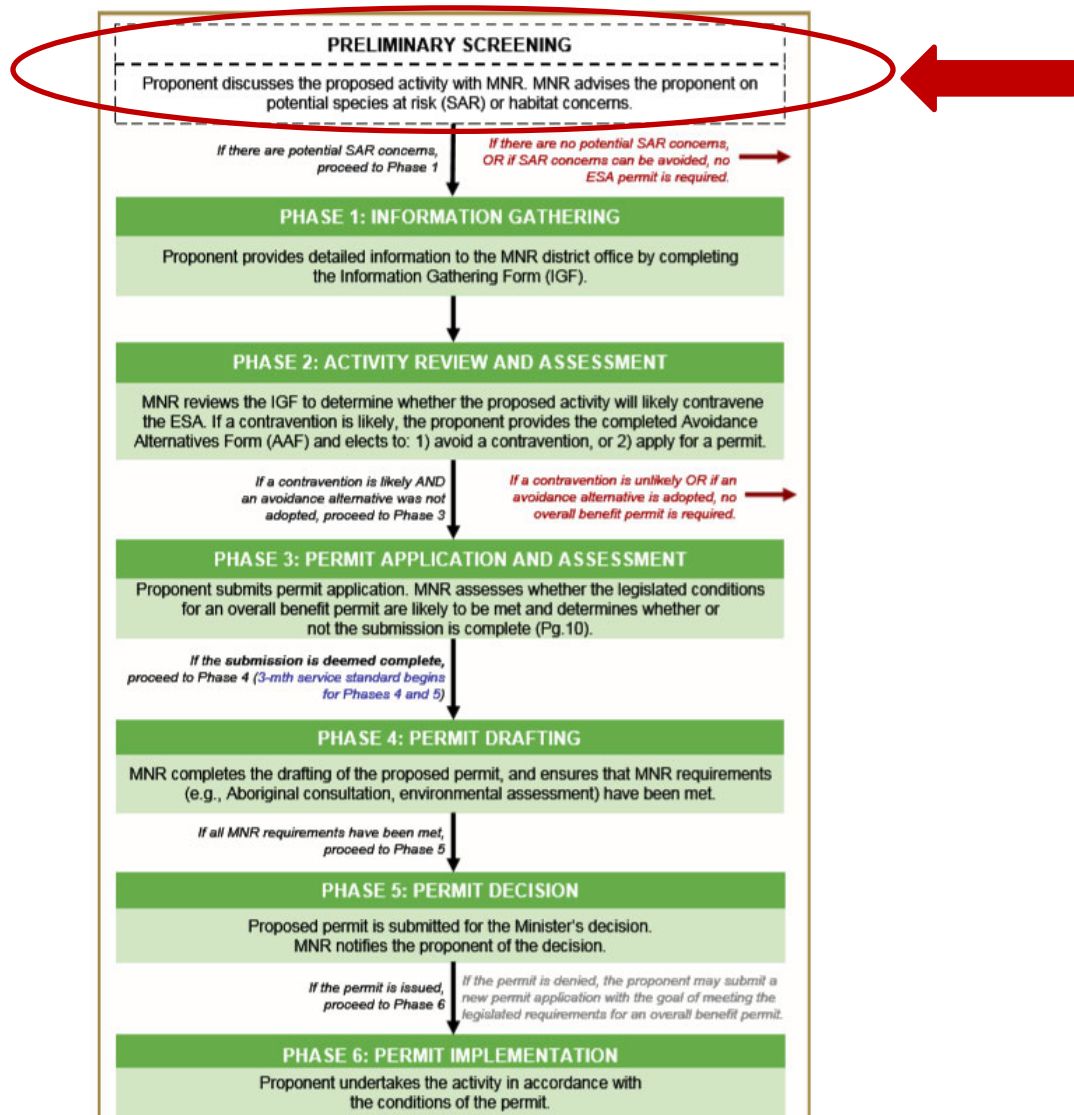
To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide, at a minimum, prior to contacting Government of Ontario ministry offices for further information or advice.

1.2 Scope

This guide is a resource for clients seeking to understand if their activity is likely to impact species at risk or if they are likely to trigger the need for an authorization under the ESA. It is not intended to circumvent any detailed site surveys that may be necessary to document species at risk or their habitat nor to circumvent the need to assess the impacts of a proposed activity on species at risk or their habitat. This guide is not an exhaustive list of available information sources for any given area as the availability of information on species at risk and their habitat varies across the province. This guide is intended to support projects and activities carried out on Crown and private land, by private landowners, businesses, other provincial ministries and agencies, or municipal government.

1.3 Background and Context

To receive advice on their proposed activity, clients must first determine whether any species at risk or their habitat exist or are likely to exist at or near their proposed activity, and whether their proposed activity is likely to contravene the ESA. Once this step is complete, clients may contact the ministry at SAROntario@ontario.ca to discuss the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. At this stage, the ministry can provide advice and guidance to the client about potential species at risk or habitat concerns, measures that the client is considering to avoid adverse effects on species at risk or their habitat and whether additional field surveys are advisable. This is referred to as the “Preliminary Screening” stage. For more information on additional phases in the diagram below, please refer to the *Endangered Species Act Submission Standards for Activity Review and 17(2)(c) Overall Benefit Permits* policy available online at <https://www.ontario.ca/page/species-risk-overall-benefit-permits>. Please note: any reference to MNR in the diagram is replaced by MECP.



2.0 Roles and Responsibilities

To provide the most efficient service, clients should initiate species at risk screenings and seek information from all applicable information sources identified in this guide prior to contacting Government of Ontario ministry offices for further information or advice.

Step 1: Client seeks information regarding species at risk or their habitat that exist, or are likely to exist, at or near their proposed activity by referring to all applicable information sources identified in this guide.

Step 2: Client reviews and consider guidance on whether their proposed activity is likely to contravene the ESA (see section 3.4 of this guide for guidance on what to consider).

Step 3: Client gathers information identified in the checklist in section 4 of this guide.

Step 4: Client contacts the ministry at SAROntario@ontario.ca to discuss their preliminary screening. Ministry staff will ask the client questions about the main purpose, general methods, timing and location of their proposed activity as well as information obtained about species at risk and their habitat at, or near, the site. Ministry staff will also ask the client for their interpretation of the impacts of their activity on species at risk or their habitat as well as measures the client has considered to avoid any adverse impacts.

Step 5: Ministry staff will provide advice on next steps.

Option A: Ministry staff may advise the client they can proceed with their activity without an authorization under the ESA where the ministry is confident that:

- no protected species at risk or habitats are likely to be present at or near the proposed location of the activity; or
- protected species at risk or habitats are known to be present but the activity is not likely to contravene the ESA; or
- through the adoption of avoidance measures, the modified activity is not likely to contravene the ESA.

Option B: Ministry staff may advise the client to proceed to Phase 1 of the overall benefit permitting process (i.e. Information Gathering in the previous diagram), where:

- there is uncertainty as to whether any protected species at risk or habitats are present at or near the proposed location of the activity; or
- the potential impacts of the proposed activity are uncertain; or
- ministry staff anticipate the proposed activity is likely to contravene the ESA.

3.0 Information Sources

Land Information Ontario (LIO) and the Natural Heritage Information Centre (NHIC) maintain and provide information about species at risk, as well as related information about fisheries, wildlife, crown lands, protected lands and more. This information is made available to organizations, private individuals, consultants, and developers through online sources and is often considered under various pieces of legislation or as part of regulatory approvals and planning processes.

The information available from LIO or NHIC and the sources listed in this guide should not be considered as a substitute for site visits and appropriate field surveys. Generally, this information can be regarded as a starting point from which to conduct further field surveys, if needed. While this data represents best available current information, it is important to note that a lack of information for a site does not mean that species at risk or their habitat are not present. There are many areas where the Government of Ontario does not currently have information, especially in more remote parts of the province. The absence of species at risk location data at or near your site does not necessarily mean no species at risk are present at that location. On-site assessments can better verify site conditions, identify and confirm presence of species at risk and/or their habitats.

Information on the location (i.e. observations and occurrences) of species at risk is considered sensitive and therefore publicly available only on a 1km square grid as opposed to as a detailed point on a map. This generalized information can help you understand which species at risk are in the general vicinity of your proposed activity and can help inform field level studies you may want to undertake to confirm the presence, or absence of species at risk at or near your site.

Should you require specific and detailed information pertaining to species at risk observations and occurrences at or near your site on a finer geographic scale; you will be required to demonstrate your need to access this information, to complete data sensitivity training and to obtain a Sensitive Data Use License from the NHIC. Information on how to obtain a license can be found online at <https://www.ontario.ca/page/get-natural-heritage-information>.

Many organizations (e.g. other Ontario ministries, municipalities, conservation authorities) have ongoing licensing to access this data so be sure to check if your organization has this access and consult this data as part of your preliminary screening if your organization already has a license.

3.1 Make a Map: Natural Heritage Areas

The Make a Natural Heritage Area Map (available online at <https://www.ontario.ca/page/make-natural-heritage-area-map>) provides public access to natural heritage information, including species at risk, without the user needing to have Geographic Information System (GIS) capability. It allows users to view and identify generalized species at risk information, mark areas of interest, and create and print a custom map directly from the web application. The tool also shows topographic information such as roads, rivers, contours and municipal boundaries.

Users are advised that sensitive information has been removed from the natural areas dataset and the occurrences of species at risk has been generalized to a 1-kilometre grid to mitigate the risks to the species (e.g. illegal harvest, habitat disturbance, poaching).

The web-based mapping tool displays natural heritage data, including:

- Generalized Species at risk occurrence data (based on a 1-km square grid),
- Natural Heritage Information Centre data.

Data cannot be downloaded directly from this web map; however, information included in this application is available digitally through Land Information Ontario (LIO) at <https://www.ontario.ca/page/land-information-ontario>.

3.2 Land Information Ontario (LIO)

Most natural heritage data is publicly available. This data is managed in a large provincial corporate database called the LIO Warehouse and can be accessed online through the LIO Metadata Management Tool at

<https://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/main.home>. This tool provides descriptive information about the characteristics, quality and context of the data. Publicly available geospatial data can be downloaded directly from this site.

While most data are publicly available, some data may be considered highly sensitive (i.e. nursery areas for fish, species at risk observations) and as such, access to some data maybe restricted.

3.3 Additional Species at Risk Information Sources

- The Breeding Bird Atlas can be accessed online at <http://www.birdsontario.org/atlas/index.jsp?lang=en>
- eBird can be accessed online at <https://ebird.org/home>
- iNaturalist can be accessed online at <https://www.inaturalist.org/>
- The Ontario Reptile and Amphibian Atlas can be accessed online at <https://ontarionature.org/programs/citizen-science/reptile-amphibian-atlas>
- Your local Conservation Authority. Information to help you find your local Conservation Authority can be accessed online at <https://conservationontario.ca/conservation-authorities/find-a-conservation-authority/>

Local naturalist groups or other similar community-based organizations

- Local Indigenous communities
- Local land trusts or other similar Environmental Non-Government Organizations
- Field level studies to identify if species at risk, or their habitat, are likely present or absent at or near the site.
- When an activity is proposed within one of the continuous caribou ranges, please be sure to consider the caribou Range Management Policy. This policy includes figures and maps of the continuous caribou range, can be found online at <https://www.ontario.ca/page/range-management-policy-support-woodland-caribou-conservation-and-recovery>

3.4 Information Sources to Support Impact Assessments

- Guidance to help you understand if your activity is likely to adversely impact species at risk or their habitat can be found online at <https://www.ontario.ca/page/policy-guidance-harm-and-harass-under-endangered-species-act> and <https://www.ontario.ca/page/categorizing-and-protecting-habitat-under-endangered-species-act>
- A list of species at risk in Ontario is available online at <https://www.ontario.ca/page/species-risk-ontario>. On this webpage, you can find out more about each species, including where it lives, what threatens it and any specific habitat protections that apply to it by clicking on the photo of the species.

4.0 Check-List

Please feel free to use the check list below to help you confirm you have explored all applicable information sources and to support your discussion with Ministry staff at the preliminary screening stage.

- ✓ Land Information Ontario (LIO)
- ✓ Natural Heritage Information Centre (NHIC)
- ✓ The Breeding Bird Atlas
- ✓ eBird
- ✓ iNaturalist
- ✓ Ontario Reptile and Amphibian Atlas
- ✓ List Conservation Authorities you contacted: _____

- ✓ List local naturalist groups you contacted: _____

- ✓ List local Indigenous communities you contacted: _____

- ✓ List any other local land trusts or Environmental Non-Government Organizations you contacted: _____

- ✓ List and field studies that were conducted to identify species at risk, or their habitat, likely to be present or absent at or near the site: _____

- ✓ List what you think the likely impacts of your activity are on species at risk and their habitat (e.g. damage or destruction of habitat, killing, harming or harassing species at risk): _____

From: Amy Furtado <Amy.Furtado@kitchener.ca>
Sent: Thursday, September 02, 2021 9:54 AM
To: 'Tom Slomke'
Cc: Hohner, Paula <Paula.Hohner@stantec.com>; Jean Hao <Jean.Hao@kitchener.ca>
Subject: RE: Integrated Sanitary Master Plan

Hi Tom,

I am so happy to hear you are interested in the Study.

If you would like, you can also visit the [Engage page](#) and subscribe. This will allow you to receive updates and provide feedback throughout the duration of the engagement.

Top right corner on the page (Stay informed) is where you can submit your email address for updates. If you are on mobile/phone, scroll to the bottom and you will see it there.

Integrated Sanitary Master Plan



Did you know there are over 800km of sanitary sewer mains underneath our city?

What issues or concerns do you have about our existing sanitary infrastructure?

What do we need to consider to expand that infrastructure as our community grows?

The Study

The City is creating an Integrated Sanitary Master Plan to make sure we meet our sanitary service needs now and in the future. We will be reviewing existing conditions and developing an assessment of alternative solutions. You will



STAY INFORMED

Subscribe for project updates

Subscribe

As Jean mentioned, we will also add your name to our list.

Thank you,

From: Jean Hao <Jean.Hao@kitchener.ca>

Sent: Thursday, September 2, 2021 9:45 AM

To: 'Tom Slomke'

Cc: Nick Gollan <Nick.Gollan@kitchener.ca>; Amy Furtado <Amy.Furtado@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>

Subject: RE: [EXTERNAL] Integrated Sanitary Master Plan

Good morning Tom,

Thanks for letting us know. We will add your name and email address to the list of those interested in receiving information and reports on the proposed Integrated Sanitary Master Plan.

We appreciate your feedback.

Best regards,

Jean Hao, P.Eng., PMP

Design & Construction Project Manager, Utility Planning and Programs | Sanitary and Stormwater Utilities | City of Kitchener

Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Tom Slomke

Sent: Thursday, September 2, 2021 9:39 AM

To: Jean Hao <Jean.Hao@kitchener.ca>

Subject: [EXTERNAL] Integrated Sanitary Master Plan

Hello Jean,

Please add my name and email address to the list of those interested in receiving information and reports on the proposed Integrated Sanitary Master Plan.

I am a retired City Planner, and I represent the Westmount Neighbourhood Association and the Easy Riders Cycling Club. I am also a member of the Kitchener Cycling and Trails Advisory Committee. I will be monitoring the study to examine alternatives that may affect trails and cycling facilities. Also, being a planner, I get interested in such stuff.

Tom Slomke

APPENDIX A.4

Public Information Centre 1

Welcome



Integrated Sanitary Master Plan Class Environmental Assessment

Virtual Public Information Centre 1 City of Kitchener

July 2022

Public Information Centre #1



Welcome!

The goals of this Online Public Information Centre #1:



Provide an overview of the process that will be followed for the project



Introduce the project and why it is being undertaken



Provide background information on the City of Kitchener Sanitary sewer system



Answer any questions you may have and provide an opportunity to get involved in the project

We encourage you to get involved in this study. Comments received will help identify a recommended approach for current and future sanitary sewer needs in the City of Kitchener.

Project Summary

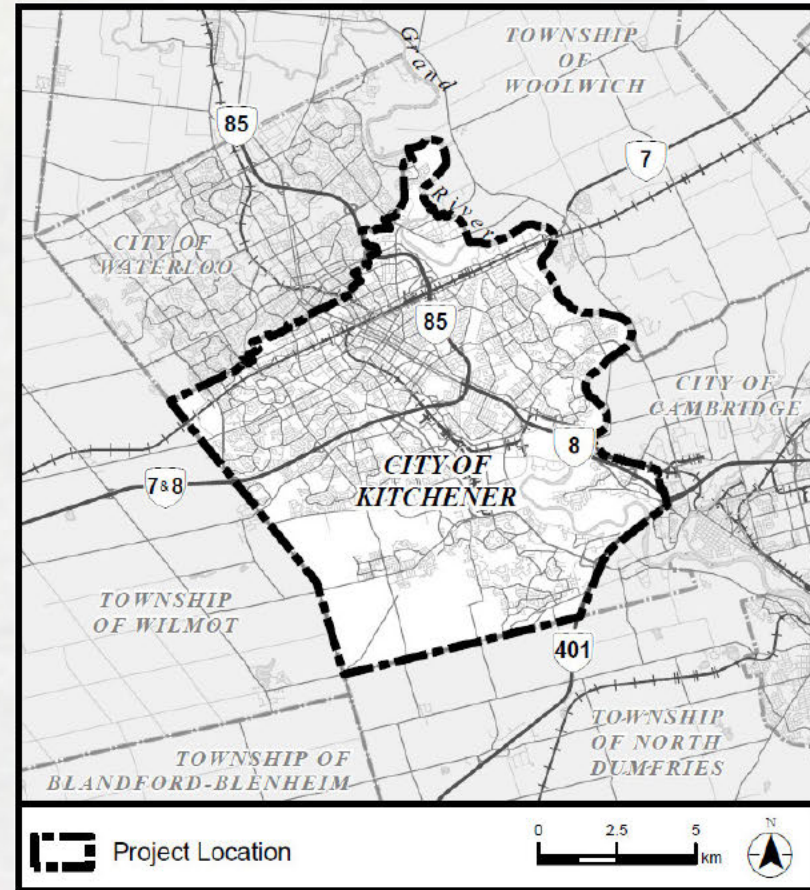


What are we doing?

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The Plan will examine the City's sanitary sewer system needs by looking at:

- new planning policies
- projections for new development needs
- current needs and issues that exist in the community

The Master Plan will identify shortcomings in the sanitary sewer system, identify alternative solutions, evaluate those alternatives and then identify the preferred alternative to support planned growth across the City.



What are some of the key factors important to you that should be taken into account during this Study?

Municipal Class EA Process



The Municipal Class Environmental Assessment (EA) is a process that allows for the planning and implementation of municipal infrastructure (sewers, watermains, roads, etc.) and is legislated by the Ontario Environmental Assessment Act. The process can be used for planning individual projects or to address groups of projects, through a Master Plan. Master Plans are long range plans which look at existing and future needs. This Master Plan is intended to meet the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process. For most projects, this is sufficient study work to allow the project to proceed to design and construction. For more complex projects with greater impacts, further study is required.

Phase 1: Problem and Opportunity

- Review background planning and policy documents (e.g., Official Plan)
- Identify study area needs, problems and opportunities

Phase 2: Alternative Solutions

- Inventories of socio-economic, natural and cultural environments
- Identify and evaluate feasible Alternative Solutions
- Select Recommended Alternative Solution
- Present to public, First Nations and agencies for comment

Problem & Opportunity



The City of Kitchener has significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure.

This sanitary servicing review will assess the current state of the City's sanitary sewers and pumping stations. Where issues are identified, the City will identify preferred solutions that will continue to service existing homes and businesses as well as provide the ability to service identified growth areas. The City is committed to providing a reliable and sustainable sanitary servicing system.

**Do you agree with the problem/
opportunity statement? Are
there any other considerations?**

Planning and Policy Context



The following studies help us to understand the planned growth expected in the City of Kitchener in the future.

Regional Official Plan (ROP) Review

The Region of Waterloo is leading the preparation of the ROP Review to allocate population forecasts to the municipalities within the Region. This work should be complete by summer 2022. Estimated future populations for Kitchener in 2051 are anticipated to range from 368,500-417,500.

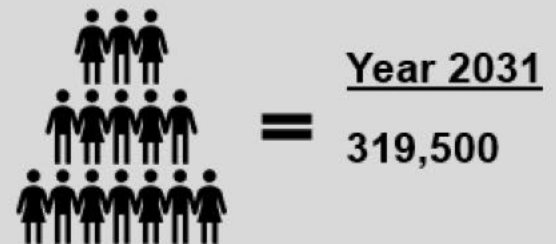
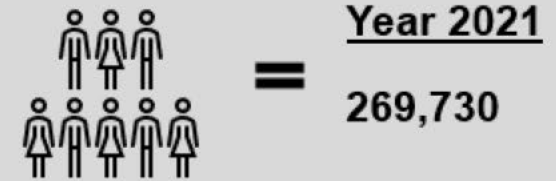
Official Plan

The City of Kitchener Official Plan (2014) provides policies to address local issues and characteristics, while aiming to balance the social, economic and environmental interests of the community. The Official Plan provides a framework for planned growth to 2031 based on population and employment forecasts. These forecasts are being used to guide the existing and future sanitary needs for this Master Plan.

Kitchener Growth Management Plan

The Kitchener Growth Management Plan (2019) provides guidance and strategy within the Official Plan for growth in the City. The plan is expected to guide the growth projections and distribution targets to identify greenfield and intensification areas, in collaboration with sanitary servicing assessment.

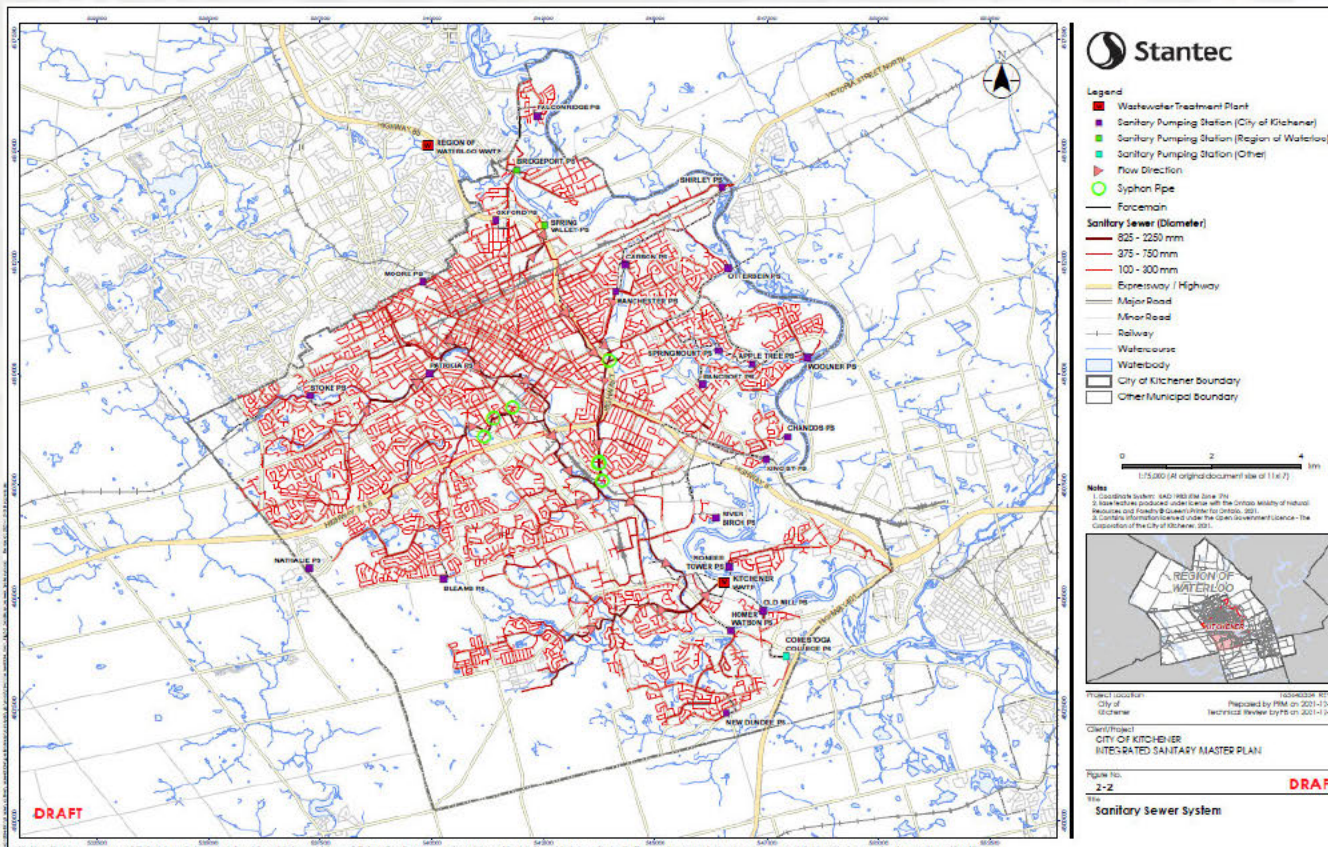
City Population Forecasts



Existing Sanitary System

Sanitary Sewer Inventory

Existing information on the City's assets (sanitary sewers and pumping stations) provide an overview of the sanitary sewer system in the City. The data provided information such as size, length, slope, material, and construction date. This information forms the basis of the study.



Cultural Heritage



The Master Plan must also consider review and consider other resource material such as:

Archaeological Resources

It is anticipated that many of the properties within the study area will have the potential to contain archaeological resources (archaeological potential). The *Ontario Public Register of Archaeological Reports* will be referenced as part of the development of alternative solutions, to consider the proximity to archaeology potential.



Cultural Heritage

The City's diverse cultural heritage has been identified on the City's Municipal Register. A number of reports and background information will be reviewed as part of the development of alternative solutions to consider the proximity to cultural heritage resources.



Natural Heritage System (NHS)

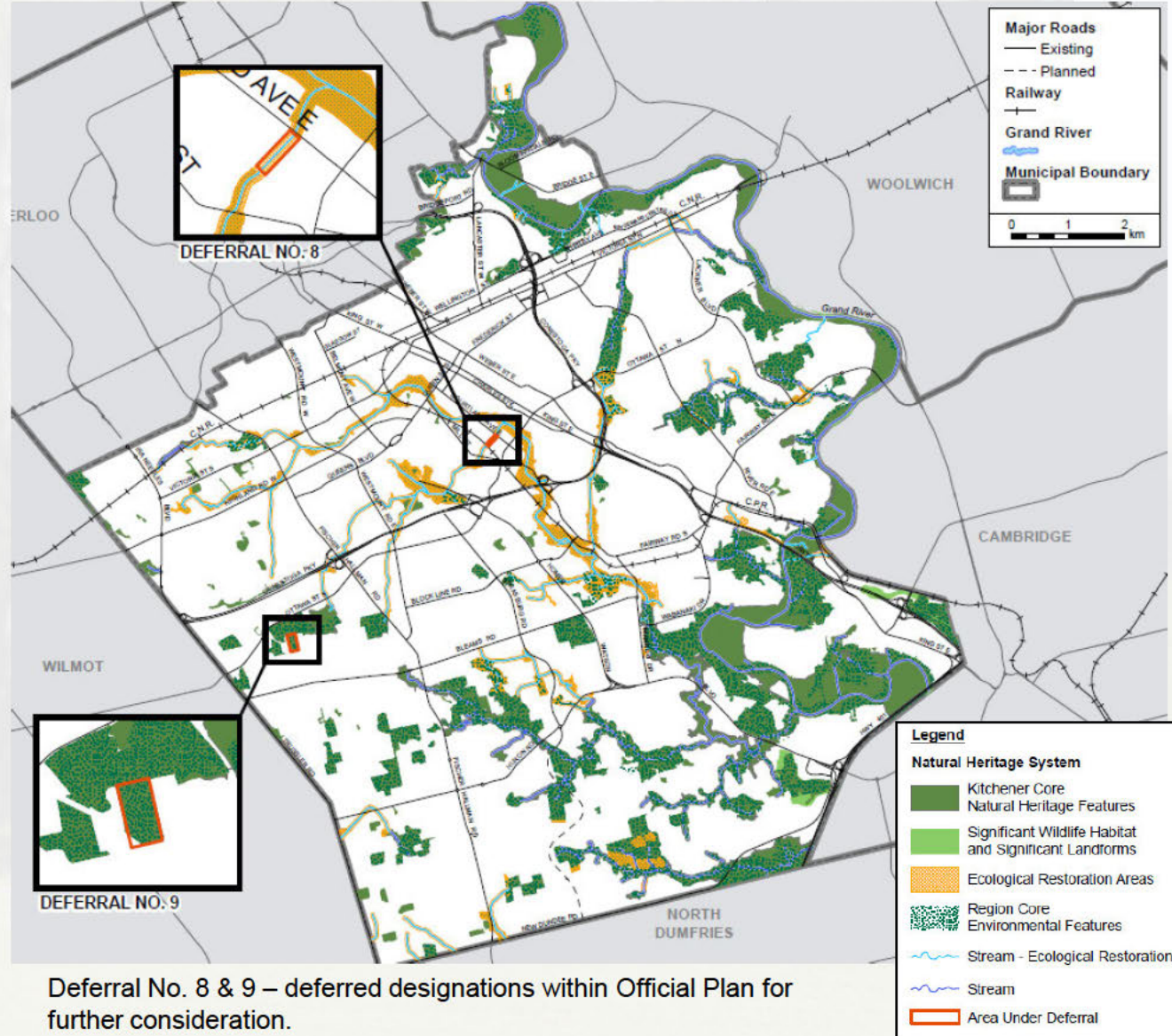


Kitchener is located within the Grand River watershed and provides a diverse natural heritage system with the City.

There are several natural features across the City including:

- Significant Valleylands
- Environmentally Sensitive Landscapes
- Regional Recharge Areas

Once alternative solutions are identified, the proximity and potential impacts to key natural features will be considered.



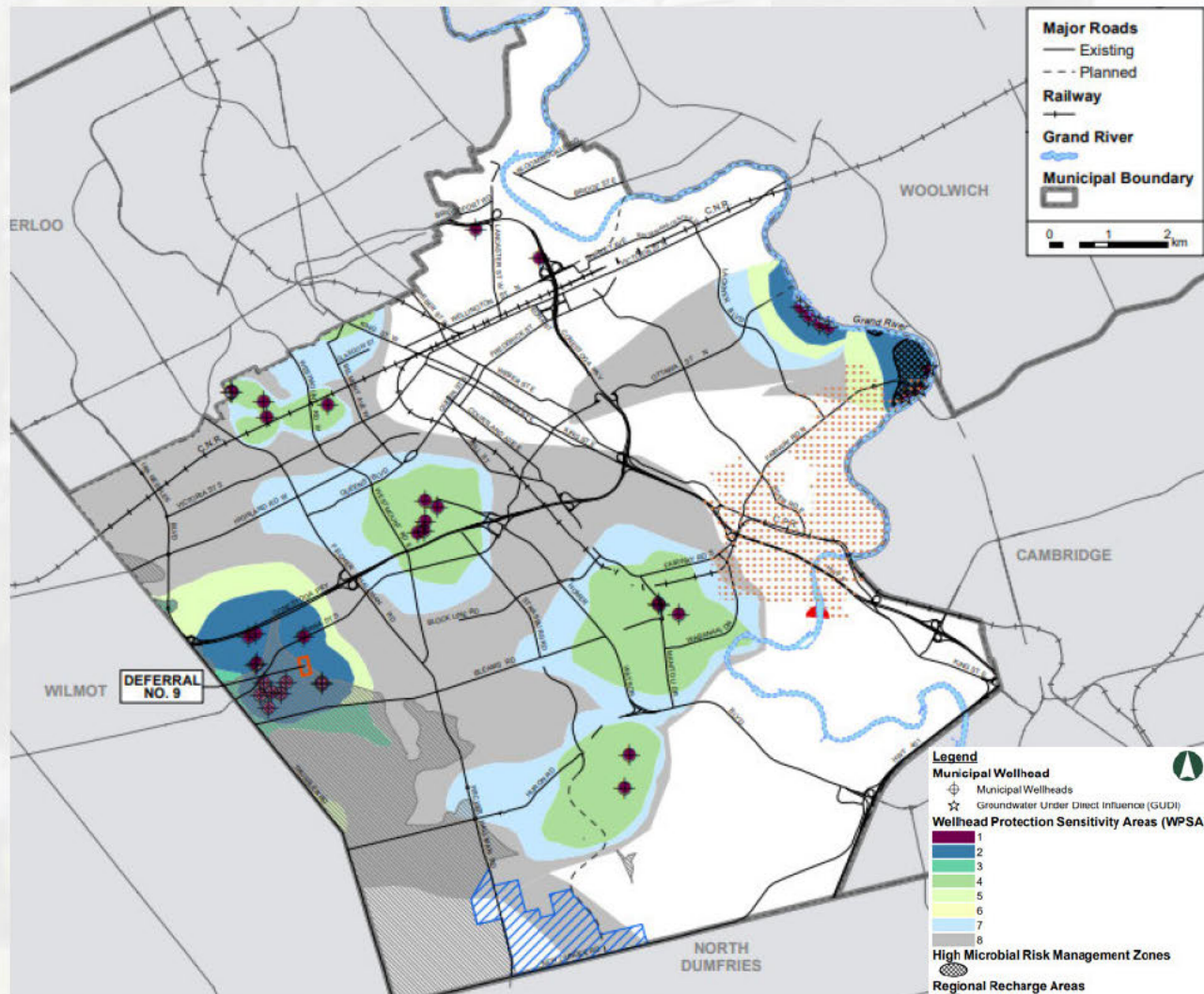
Deferral No. 8 & 9 – deferred designations within Official Plan for further consideration.

Source Water Protection



Kitchener's drinking-water resources are drawn from the Grand River and groundwater features, also referred to as Source Water Protection Areas. It is critical to protect these areas from contamination and from land uses that could hinder surface and groundwater recharge.

The Grand River Source Protection Plan contains policies for the protection and conservation of the City's drinking water resources.



Evaluation Criteria



Alternative solutions will be assessed using the factors and criteria below. Depending on comments received from agencies, First Nations, stakeholders and members of the public, criteria may be added or refined.

Socio-Economic

- Potential to impact existing residences, businesses (e.g., agricultural operations) and community features
- Potential effect on approved/planned land uses
- Potential effects on known or potential significant archaeological resources, built heritage resources and cultural landscape features
- Potential to accommodate planned significant population and job growth in strategic growth areas

Natural Environment

- Potential to impact fish and fish habitat
- Potential to impact water resources including surface water (i.e., rivers, creeks, etc.), groundwater recharge areas and wellhead protection areas
- Potential to impact significant natural heritage features
- Potential to impact significant wildlife habitat and species at risk

Evaluation Criteria Continued



Technical Considerations

- Potential land requirements including land purchase and temporary/permanent easements
- Constructability
- Effect on existing utilities and infrastructure (number and type of potential conflicts)
- Ability to coordinate with existing and planned infrastructure improvements
- System resiliency and system suitability

Financial

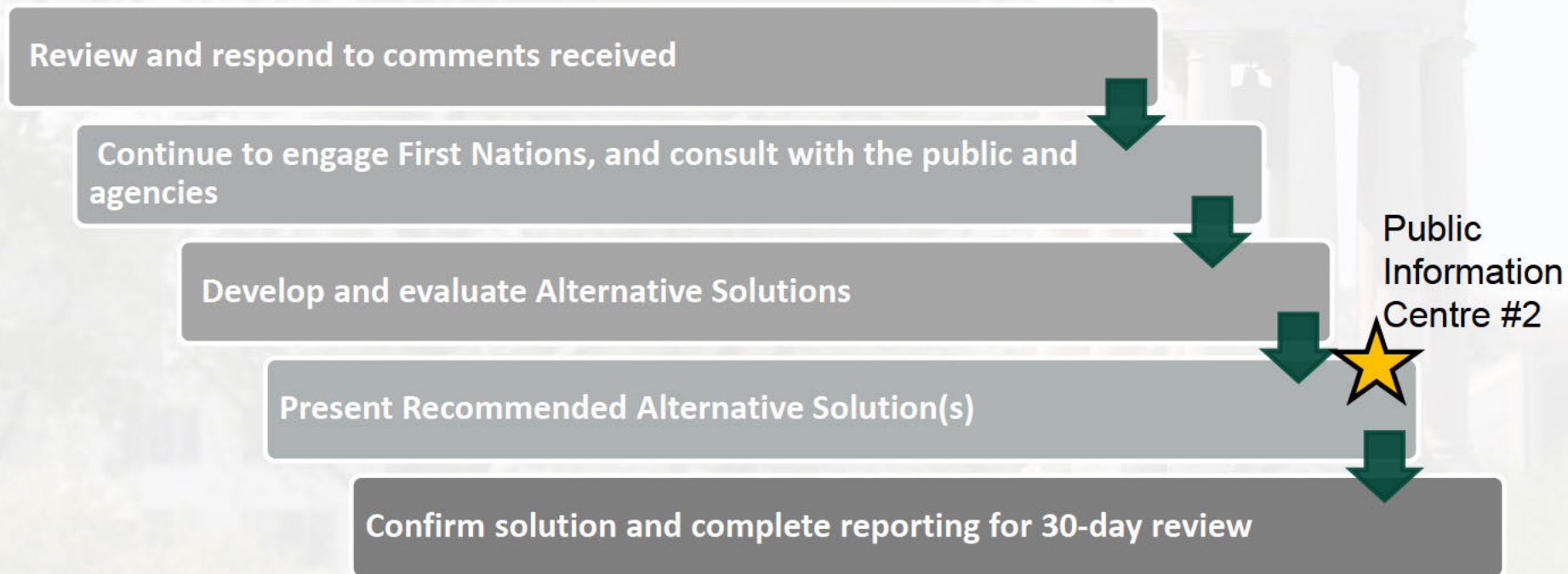
- Lifecycle operations and maintenance costs
- Estimated capital cost

Do you agree with the evaluation criteria? Are there any other criteria that should be considered?

Next Steps



Following this public meeting, the project team will complete the next steps identified below:



The results of these next steps will be used to help identify, develop and evaluate the alternative solutions for the Sanitary Master Plan. The evaluation of alternative solutions will identify the **Recommended Sanitary Servicing Solution**, the process of which will be presented at Public Information Centre #2, which is tentatively scheduled for winter 2023.

Thank you for participating!



Thank you for participating in the Online Public Information Centre for the City of Kitchener's Class Environmental Assessment for the Integrated Sanitary Servicing Master Plan. Your feedback is valuable and appreciated.

Please provide comments by filling out the comment form or by contacting a member of the project team below by August 8, 2022:



Jean Hao, P.Eng., PMP
Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener
Phone: 519-741-2220 ext. 4156
TTY: 1-866-969-9994
Email: Jean.Hao@kitchener.ca



Jeff Paul, P.Eng.
Project Manager
Stantec Consulting Ltd.
600-171 Queens Ave
London, ON N6A 5J7
Phone: 519-319-5806
Email: Jeff.Paul@stantec.com

Project Website: <https://www.engagewr.ca/sanitarymasterplan>

All information is collected in accordance with the Freedom of Information and Privacy Act.



City of Kitchener
Integrated Sanitary Master Plan
Virtual Public Information Centre #1 Presentation Transcript
July 2022

Slide 1 – Title Slide

Hello and thank you for joining us for City of Kitchener Integrated Sanitary Master Plan Municipal Class Environmental Assessment, Virtual Public Information Centre (or PIC) number 1.

Slide 2 – Welcome!

The goals of this Online Public Information Centre #1 are to:

- Provide an overview of the process that will be followed for the project
- Introduce the project and why it is being undertaken
- Provide background information on the City of Kitchener Sanitary sewer system
- Answer any questions you may have and provide an opportunity to get involved in the project

We encourage you to get involved in this study. Comments received will help identify a recommended approach for current and future sanitary sewer needs in the City of Kitchener.

Slide 3 – Project Summary

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The Plan will examine the City's sanitary sewer system needs by looking at:

- New planning policies
- Projections for new development needs
- Current needs and issues that exist in the community

The Master Plan will identify shortcomings in the sanitary sewer system, identify alternative solutions, evaluate those alternatives and then identify the preferred alternative to support planned growth across the City.

A question for you to consider while watching this presentation is: What are some of the key factors important to you that should be taken into account during this Study? We welcome you to provide feedback by filling out a comment form or by contacting a member of the project team. Contact information will be provided at the end of this presentation.

Slide 4 – Municipal Class EA Process

The Municipal Class Environmental Assessment is a process that allows for the planning and implementation of municipal infrastructure, such as sewers, watermains



City of Kitchener
Integrated Sanitary Master Plan
Virtual Public Information Centre #1 Presentation Transcript
July 2022

and roads, and is legislated by the Ontario Environmental Assessment Act. The process can be used for planning individual projects or to address groups of projects, through a Master Plan. Master Plans are long range plans which look at existing and future needs. This Master Plan is intended to meet the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process. For most projects, this is sufficient study work to allow the project to proceed to design and construction. For more complex projects with greater impacts, further study is required. Phase 1 and 2 of the MCEA process includes:

- reviewing background planning and policy documents
- identifying the problem or opportunity;
- developing and evaluating alternative solutions; and,
- identifying and presenting the preferred solution, potential environmental impacts and proposed mitigation measures.

We are currently in Phase 1 of the study. Following the completion of Phase 2 of this study, a Project File Report will be prepared to summarize the decision-making process for the public and stakeholders. A 30-day review period will be provided for the public and stakeholders to review and comment on the report.

Slide 5 – Problem & Opportunity

At the start of the study, a problem or opportunity statement is prepared which is used to guide the study as alternative solutions are developed. The problem and opportunity statement developed for this project is as follows:

The City of Kitchener has significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure.

This sanitary servicing review will assess the current state of the City's sanitary sewers and pumping stations. Where issues are identified, the City will identify preferred solutions that will continue to service existing homes and businesses as well as provide the ability to service identified growth areas. The City is committed to providing a reliable and sustainable sanitary servicing system.

Do you agree with this problem & opportunity statement? Are there any other considerations you feel should be included? Please provide any comments through the comment sheets, or by contacting a member of the project team.



City of Kitchener
Integrated Sanitary Master Plan
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Slide 6 – Planning and Policy Context

The following studies help us understand the planned growth expected in the City of Kitchener in the future.

We will consider the Regional Official Plan. The preparation of this document is currently underway and is lead by the Region of Waterloo. The review will allocate population forecasts to the municipalities within the Region. This work should be complete by summer 2022. Estimated future populations for Kitchener in 2051 are anticipated to range from 368,500-417,500.

The City of Kitchener Official Plan, completed in 2014, provides policies to address local issues and characteristics, while aiming to balance the social, economic and environmental interests of the community. The Official Plan provides a framework for planned growth to 2031 based on population and employment forecasts. These forecasts are being used to guide the existing and future sanitary needs for this Master Plan.

The Kitchener Growth Management Plan, completed in 2019, provides guidance and strategy within the Official Plan for growth in the City. The plan is expected to guide the growth projections and distribution targets to identify greenfield and intensification areas, in collaboration with sanitary servicing assessment.

Slide 7 – Existing Sanitary System

Existing information on the City's assets, such as sanitary sewers and pumping stations, provide an overview of the sanitary sewer system in the City. The data provided information such as size, length, slope, material, and construction date. This information forms the basis of the study.

Slide 8 – Cultural Heritage

The Master Plan must also review and consider other resource materials such as:

Archaeological Resources - It is anticipated that many of the properties within the study area will have the potential to contain archaeological resources (archaeological potential). The Ontario Public Register of Archaeological Reports will be referenced as part of the development of alternative solutions, to consider the proximity to archaeology potential.

Cultural Heritage - The City's diverse cultural heritage has been identified on the City's Municipal Register. A number of reports and background information will be reviewed as



City of Kitchener
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part of the development of alternative solutions to consider the proximity to cultural heritage resources.

Slide 9 – Natural Heritage System

Kitchener is located within the Grand River watershed and provides a diverse natural heritage system with the City.

There are several natural features across the City including:

- Significant Valleylands
- Environmentally Sensitive Landscapes
- Regional Recharge Areas

Once alternative solutions are identified, the proximity and potential impacts to key natural features will be considered.

Slide 10 – Source Water Protection

Kitchener's drinking water resources are drawn from the Grand River and groundwater features, also referred to as Source Water Protection Areas. It is critical to protect these areas from contamination and from land uses that could hinder surface and groundwater recharge.

The Grand River Source Protection Plan contains policies for the protection and conservation of the City's drinking water resources.

Slide 11 – Evaluation Criteria

Alternative solutions will be assessed using the factors and criteria below. Depending on comments received from agencies, First Nations, stakeholders and members of the public, criteria may be added or refined.

Socio-Economic impacts will be considered such as:

- Potential to impact existing residences, businesses (e.g., agricultural operations) and community features
- Potential effect on approved/planned land uses
- Potential effects on known or potential significant archaeological resources, built heritage resources and cultural landscape features
- Potential to accommodate planned significant population and job growth in strategic growth areas

Natural Environment impacts will be considered such as:



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- Potential to impact fish and fish habitat
- Potential to impact water resources including surface water (i.e., rivers, creeks, etc.), groundwater recharge areas and wellhead protection areas
- Potential to impact significant natural heritage features
- Potential to impact significant wildlife habitat and species at risk

Slide 12 – Evaluation Criteria Continued

Technical Considerations will be considered such as:

- Potential land requirements including land purchase and temporary/permanent easements
- Constructability
- Effect on existing utilities and infrastructure (number and type of potential conflicts)
- Ability to coordinate with existing and planned infrastructure improvements
- System resiliency and system suitability

and finally Financial implications will be considered including:

- Lifecycle operations and maintenance costs
- Estimated capital cost

Do you agree with the evaluation criteria? Are there any other criteria that should be considered?

Slide 13 – Next Steps

Following this PIC, the Project Team will complete the next steps below:

- Review and respond to comments received
- Continue to engage First Nations, and consult with the public and agencies
- Develop and evaluate alternative solutions
- Present recommended alternative solution(s)
- Confirm solution and complete reporting for 30-day review period.

The results of these next steps will be used to help identify, develop and evaluate the alternative solutions for the Sanitary Master Plan. Public Information Centre #2 will

- Present the alternatives considered,
- Show the evaluation of those alternatives and
- Identify the recommended sanitary servicing solution.



City of Kitchener
Integrated Sanitary Master Plan
Virtual Public Information Centre #1 Presentation Transcript
July 2022

Public Information Centre #2 is tentatively scheduled for winter 2023.

Slide 14 – Thank you!

Thank you for participating in the Online Public Information Centre for the City of Kitchener's Class Environmental Assessment for the Integrated Sanitary Servicing Master Plan. Your feedback is valuable and appreciated.

Please provide comments by filling out the comment form or by contacting a member of the project team below by August 8, 2022.

For additional information and to stay up to date on the study progress, please refer to the project website: <https://www.engagewr.ca/sanitarymasterplan>

Thank you again for your interest in the study!



City of Kitchener Integrated Sanitary Master Plan
Virtual Public Information Centre #1
July 8, 2022 to August 8, 2022

Comment Sheet

Contact Information (optional, but required if you would like a response or to be added to the study mailing list):

Name/Organization: _____

Mailing Address: _____

E-mail: _____

1. Do you have any questions, concerns or comments for the project team?

What presentation method would you prefer for Public Information Centre #2?

- Virtual Pre-Recorded Presentation
- Virtual Live Presentation
- In-Person

Please email the completed form to a member of the study team by August 8, 2022:

Jean Hao, P.Eng., PMP
Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener
Phone: 519-741-2200 ext. 4156
TTY: 1-866-969-9994
Email: Jean.Hao@kitchener.ca

Jeff Paul, P.Eng.
Project Manager
Stantec Consulting Ltd.
600-171 Queens Avenue
London ON N6A 5J7
Phone: 519-319-5806
Email: Jeff.Paul@stantec.com

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

To: City of Kitchener Jean Hao, P.Eng., PMP Design & Construction Project Manager Utility Planning and Programs Sanitary and Stormwater Utilities City of Kitchener 519-741-2200 ext. 4156 Jean.Hao@kitchener.ca	From: Stantec Consulting Ltd. Prepared by: Sarah Lang Environmental Planner Stantec Consulting Ltd. Sarah.Lang@stantec.com Reviewed by: Paula Hohner, MScPI, MCIP, RPP Senior Environmental Planner Stantec Consulting Ltd. Paula.Hohner@stantec.com Jeff Paul, P.Eng. Project Manager Jeff.Paul@stantec.com
File: 165640334	Date: October 5, 2022

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #1 Summary of Comments Received

This memo summarizes Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Master Plan Municipal Class Environmental Assessment (EA). The memo highlights the distribution of the Notice of PIC #1, and identifies comments received. The virtual PIC was hosted on the City's Engage website from July 8, 2022 to August 8, 2022.

Notice Distribution

The City of Kitchener arranged for the Notice of PIC #1 to be published in the Kitchener Record on July 8, 2022, and July 15, 2022. The Notice was emailed to the project contact list on July 8, 2022, by Stantec. The contact list included First Nations and Indigenous communities, residential and agency contacts.

A copy of the Notice was sent by Registered Mail to the First Nations and Indigenous community contacts on July 8, 2022.

The City of Kitchener provided a copy of the Notice and PIC presentation on the project website on July 8, 2022 ([Integrated Sanitary Master Plan | EngageWR](#)). All subscribers to the project website received a notification that the PIC was available for review on the website.

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #1 Summary of Comments Received

Format and Displays

PIC #1 was held using a virtual format. A pre-recorded presentation was made available online for public review and input on the study process, problems being addressed, and background information. A copy of the presentation and transcript were also made available online for download and were available to be mailed out upon request. The video presentation was made available on the City's project website: [Notice of Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan | Integrated Sanitary Master Plan | EngageWR](#)

Project Website Statistics

The Notice of Virtual PIC #1 posting received 252 visitors to the webpage. A total of 28 visitors downloaded the PIC #1 presentation slides, and 19 visitors downloaded the presentation transcript. There were 8 contributors that participated in the Forum Topic discussions.

The majority of the visitors were referred to the project website through Facebook advertisements, posted by the City of Kitchener. Additional referrals came from Google, Instagram, my.kitchener.ca, LinkedIn, Reddit, The Record, Kitchener City News, and Kitchener CTV News.

A copy of the Engage summary report is provided in **Appendix A**.

Comments Received

Online Forum Tool – An online Forum was developed on the project website to facilitate conversation in relation to the PIC. To solicit comments, the following three questions were added to the Forum Tool for participants to answer in the forum discussion:

- 1. What are some of the key issues important to you that we should take into account during this study?**
- 2. We recognize there is a problem to solve and an opportunity here. The City of Kitchener has a sanitary sewer infrastructure to manage for future generations. Population growth in the city will cause strain on aging infrastructure. It may also create the need for new infrastructure. This project will review the sanitary sewers and pumping stations, and then identify solutions. By doing this, we can provide a reliable and sustainable sanitary servicing system now and in the future. Do you agree with this problem and opportunity statement? Are there any other considerations you feel we should include?**
- 3. We will assess alternative solutions in different ways. We will consider the social, economic, and environmental effects of each solution. We will also look at technical**

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #1 Summary of Comments Received

and financial considerations. **After watching the presentation, do you agree with the evaluation criteria? Are there any other criteria that we should consider?**

The project team did not receive responses to the questions asked.

Six comments were received through the Forum and the following themes were identified: centralization of municipal sanitary systems, wastewater heat recovery, low impact development and stormwater management.

Four of the comments received were regarding low impact development and stormwater management. These comments were generally focused on the decentralization of stormwater management within the City, questions regarding plans to improve the existing low impact developments and green infrastructure, how the stormwater system will accommodate future growth, and how the stormwater systems will impact the natural environment in the City of Kitchener. To address these comments, the project team directed the contributors to review the existing City of Kitchener Integrated Stormwater Master Plan and noted that this project is focused on providing sanitary servicing throughout the City limits. The response also noted that key stakeholders, such as Grand River Conservation Authority, will be engaged throughout the duration of the study to help identify potential impacts to the natural environment as a result of the project.

One comment discussing the decentralization of stormwater management also discussed the centralization of municipal sanitary systems, and how the City could implement more energy efficient sanitary system. In the response, the City noted that a hybrid approach to incorporate centralized and decentralized approaches is being considered, and will match water treatment level to different service requirements, recover resources within wastewater, and reduce energy requirements of the sanitary system.

One comment was received highlighting the opportunity of wastewater heat recovery as a part of this study, to identify renewable energy to support future developments in the City. The City is aware of wastewater heat recovery opportunities, and how they can be implemented as part of this study. The goal of the project is to provide an efficient and reliable sanitary servicing system, so wastewater heat recovery recommendations will be considered as part of this study.

Appendix B provides the Forum Tool comments and responses.

Online Question Tool – An online Question Tool was included to facilitate conversation throughout the study. One comment was received during the duration of PIC #1 related to wastewater heat recovery.

The comment noted that the sanitary sewers are an untapped source of thermal energy, and that previous studies by Waterloo Region Community Energy have identified thermal maps and opportunities within Kitchener. The comment wondered if these

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #1 Summary of Comments Received

recommendations are actionable. The response from the City noted that wastewater heat recovery is on our radar, and that continued work with the Region of Waterloo will be completed to identify opportunities for wastewater heat recovery. As noted above, the City will implement an efficient and reliable sanitary sewer system, and will consider the recommendations as part of the study.

Appendix C provides the questions received throughout the duration of the study.

Online Quick Poll - A Quick Poll was created to ask, “What presentation method would you prefer for Public Information Centre #2?”. Three options were provided for visitors to vote: Virtual Pre-Recorded Presentation, Virtual Live Presentation, In-Person. Three responses were received, all voting for a Virtual Live Presentation as the preferred format for PIC #2.

Other Comments – Two emails were received directly by the project team during the duration of PIC #1, as summarized below.

Comment Theme	City Response
Waterloo Region Community Energy, Wastewater Heat Recovery Potential (WWHR) report	Wastewater heat recovery is on our radar. We have been working with the Region of Waterloo to identify opportunities for wastewater heat recovery. The Wastewater Heat Recovery in Waterloo Region report provides an overview of the sewer system and identifies the thermal heat recovery potential based on sewage flow. For those not familiar with wastewater heat recovery, it is the process of capturing heat from wastewater as it exits a building, and redirecting it for an alternate use in the building.
Impact on Active Transportation Facilities	We have not yet determined the impacts of the project on active transportation and cycling trails. We will continue to engage with key stakeholders throughout the study to understand potential impacts of the project to the area. We will consider various alternative solutions for this study, including alternatives that seek to reduce negative impacts on the natural environment.

Appendix A – Engage Summary Report

Summary Report

08 July 2022 - 08 August 2022

EngageWR

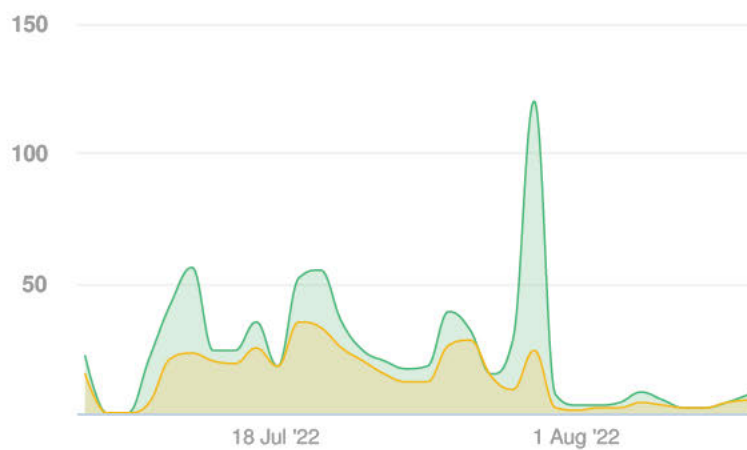
PROJECTS SELECTED: 1

Integrated Sanitary Master Plan

FULL LIST AT THE END OF THE REPORT



Visitors Summary



— Pageviews — Visitors

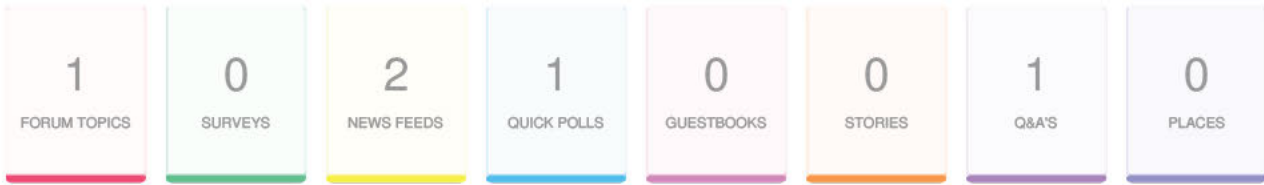
Highlights

TOTAL VISITS	MAX VISITORS PER DAY	
461	35	
NEW REGISTRATIONS		
2		
ENGAGED VISITORS	INFORMED VISITORS	AWARE VISITORS
11	73	383

PARTICIPANT SUMMARY

ENGAGED	11 ENGAGED PARTICIPANTS			(%)
INFORMED	Registered	Unverified	Anonymous	
	Contributed on Forums	4	4	0
	Participated in Surveys	0	0	0
	Contributed to Newsfeeds	0	0	0
AWARE	Participated in Quick Polls	3	0	0
	Posted on Guestbooks	0	0	0
	Contributed to Stories	0	0	0
	Asked Questions	0	1	0
	Placed Pins on Places	0	0	0
	Contributed to Ideas	0	0	0
	<i>* A single engaged participant can perform multiple actions</i>			<i>* Calculated as a percentage of total visits to the Project</i>
				Integrated Sanitary Master ... 11 (2.9%)
ENGAGED	73 INFORMED PARTICIPANTS			(%)
INFORMED	Participants			
	Viewed a video	0		
	Viewed a photo	0		
	Downloaded a document	35		
AWARE	Visited the Key Dates page	0		
	Visited an FAQ list Page	3		
	Visited Instagram Page	0		
	Visited Multiple Project Pages	61		
	Contributed to a tool (engaged)	11		
	<i>* A single informed participant can perform multiple actions</i>			<i>* Calculated as a percentage of total visits to the Project</i>
				Integrated Sanitary Master ... 73 (19.1%)
ENGAGED	383 AWARE PARTICIPANTS			
INFORMED	Participants			
	Visited at least one Page	383		
AWARE				Integrated Sanitary Master ... 383
	<i>* Aware user could have also performed an Informed or Engaged Action</i>			<i>* Total list of unique visitors to the project</i>

ENGAGEMENT TOOLS SUMMARY



FORUM TOPICS SUMMARY

1	Forum Topics
8	Contributors
12	Contributions

TOP 3 FORUM TOPICS BASED ON CONTRIBUTORS

8	Contributors to
Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master	

NEWSFEEDS SUMMARY

2	NewsFeed
271	Visits
253	Visitors

TOP 3 NEWSFEEDS BASED ON VISITORS

252	Visitors to	1	Visitors to
Notice of Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary		Notice of Study Commencement: City of Kitchener Integrated Sanitary	

QUICK POLLS SUMMARY

1	Quick Polls
3	Contributors
3	Responses

TOP 3 QUICK POLLS BASED ON CONTRIBUTORS

3	Contributors to
What presentation method would you prefer for Public Information Centre #2?	

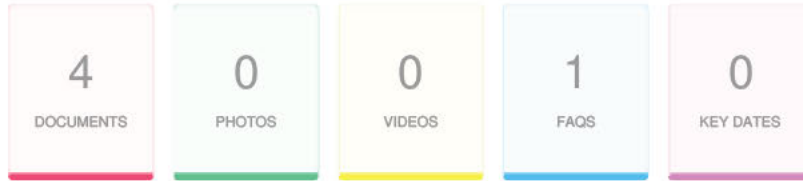
Q & A SUMMARY

1	Q&As
1	Contributors
1	Questions

TOP 3 Q & A BASED ON CONTRIBUTORS

1	Contributors to
Questions	

INFORMATION WIDGET SUMMARY



DOCUMENTS	
4	Documents
35	Visitors
53	Downloads

TOP 3 DOCUMENTS BASED ON DOWNLOADS		
28 Downloads	19 Downloads	3 Downloads
Virtual Public Information Centre 1 Presentation Slides	Virtual Public Information Centre 1 Presentation Transcript	Notice of Virtual Public Information Centre 1

FAQS	
1	Faqs
3	Visitors
5	Views

TOP 3 FAQS BASED ON VIEWS
5 Views
Integrated Sanitary Master Plan

REFERRER URL	Visits
m.facebook.com	112
l.facebook.com	66
lm.facebook.com	56
www.google.com	8
instagram.com	5
android-app	2
www.google.ca	2
www.kitchener.ca	2
www.linkedin.com	2
out.reddit.com	1
www.therecord.com	1

SELECTED PROJECTS - FULL LIST

PROJECT TITLE	AWARE	INFORMED	ENGAGED
Integrated Sanitary Master Plan	383	73	11

Appendix B – Forum Tool Comments and Responses

City of Kitchener Integrated Sanitary Master Plan - Public Information Centre #1

Summary of Forum Discussion Comments and Responses

Comment	Response
<p>Ian S - July 13, 2022</p> <p>Thank you for providing a good basis of design and opportunities for next steps. Stormwater and waste management is the unsung hero of a city! Some key issues for me coming out of this study is whether a cross-functional approach may be required to handle the new challenges of developing projects within tight restrictions of a densifying city. There are major synergies that would work for broader sections of the 2051 plan. We have acres of unused parking lots within the cities boundary. These are massive water collecting basins which for one, have too many parking spaces allocated due to an outdated building code, and secondly, they are collocated to major energy and water consuming/waste producing businesses. These parking areas should be rethought for their energy production via solar carports, water collecting potential, redesign for added housing needs, and considered for larger, underground reservoirs to “pre-store” groundwater for use in irrigation, etc. This would tackle our energy transition, elevate and up-cycle housing and affordable housing, protect our water resources, drive down sprawl, and reuse existing space without a lot of added costs to the city. I know very little about wastewater management but could there be a way to distribute treatment facilities to remove such pressure on centralized systems? The 800km of piping under our roads seems like a glaring misuse of tax money to dig up roads, upgrade massive equipment and from my perspective, “do as we have done before”. A decentralized program would be interesting to send wastewater to numerous smaller facilities, use new technologies such as anaerobic digesters to create biofuels or electricity, and then send treated water into our massive aqueduct system for egress to water cycle. I agree with statement in section 2. This is a more complex problem than merely dealing with waste and water. There is a clear holistic approach needed to work toward integrating other aspects of the 2052 goals to make this work for the cities growth in a consistently resource constrained world. Great team at the table to work on a solution for this! Criteria is good for evaluation. It is at least a starting point to get work off the ground. I am very interested in understanding the holistic approach to this issue versus segregating it away as many engineering projects can do. There are so many services that are interconnected here when working on one of our largest utility requirements. As my comment above suggest, I believe that this should be a good opportunity to rethink space, rethink technology options and strive to build a framework that</p>	<p>Thank you for taking the time to share your feedback and thoughts.</p> <p>The City of Kitchener completed an Integrated Stormwater Master Plan in 2016. Through that plan, we identified locations for decentralized approaches to Stormwater Management. We received partial funding to implement the plan through the Government of Canada. Find out more about these Disaster Mitigation Adaptation Fund projects on our website.</p> <p>Some municipal sanitary systems incorporate hybrid centralized and decentralized approaches. Through hybrid approaches some municipalities have been able to:</p> <ul style="list-style-type: none"> • match water treatment level to different service requirements; • recover resources within wastewater; and • reduce energy requirements of the sanitary system. <p>We are interested in hearing about innovative, progressive, and emerging ideas like these.</p> <p>We will develop alternative solutions in the next Public Information Center #2. Please keep in touch.</p> <p>Website Links Integrated Stormwater Master Plan (2016): https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx</p>

Comment	Response
<p>supports other key pillars of our cities 2052 goals to benefit people, business and our future generations.</p>	
<p>Klas Bockasten - July 25, 2022</p>	
<p>The study should in my view include a further discussion and include details on the subject of "Sanitary Sewer Heat Recovery". This should include the installation of temperature monitoring systems to get a better understanding of the thermal profile that together with flows that are well known identify the renewable energy opportunities to support future developments in our city.</p>	<p>Thank you for your interest in the study.</p> <p>Wastewater heat recovery is on our radar. We have been working with the Region of Waterloo to identify opportunities for wastewater heat recovery. The Wastewater Heat Recovery in Waterloo Region report provides an overview of the sewer system and identifies the thermal heat recovery potential based on sewage flow. For those not familiar with wastewater heat recovery, it is the process of capturing heat from wastewater as it exits a building, and redirecting it for an alternate use in the building.</p> <p>The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider climate change impacts through this study. As part of that, we will consider the recommendations of this report as part of our study.</p>
<p>Fereidoun Rezanezhad - July 29, 2022</p>	
<p>How the City of Kitchener Integrated Sanitary Master Plan will contribute in reducing greenhouse gas (GHG) emissions in future, with the new exciting challenge in addressing climate change and Anthropogenic Greenhouse Gas (GHG) Emissions? Do you have any plan in improving the low impact development (LID)/green infrastructure in the City of Kitchener?</p>	<p>Thank you for your question on how the City is addressing climate change through this study.</p> <p>Our study is focused on the sanitary sewer collection system, and does not include the storm sewer collection and treatment system. The City of Kitchener completed an Integrated Stormwater Master Plan in 2016. Information about the plans for Low-Impact Development's and green infrastructure can be found in the Integrated Stormwater Master Plan (linked below).</p> <p>The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider greenhouse gas emissions and climate change impacts through this study. Let us know if you have any additional suggestions or recommendations.</p> <p>Related Links Integrated Stormwater Master Plan - https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx</p>

Comment	Response
<p>Ari Liso - July 29, 2022</p> <p>1. Engaging GRCA and stakeholders to acquire and better publicize the water resources along the grand river, tributaries and other water resources in areas of public use. For example, various springs are present along the banks of the grand but no public inventories of them (or their recharge areas) are publicly available. For effective scoping of such water resources and comprehensive planning i believe we need to integrate and better share both out inventory, knowledge and public access of various stakeholder data resources, essentially trying to reduce unknown unknowns.2. Rather than growth alone, I would also look at alternatives to reducing intensity rather than expanding to handle increased volume. Further, during the discussion and planning to expand current treatment infrastructure to cope with the additional volume, we should also seriously look at reducing the intensity of impact there as well. I think this is especially salient with regard to emerging contaminats such as microplastics, as well as contaminants with significant potential to have legacy effects like salt and phosphorous.3. I think Adaptive management is key to sustainability here. Not just considering today but establishing effective ongoing feedback and communication frameworks for Adaptive Management.</p>	<p>Thank you for taking the time to share your feedback and thoughts.</p> <p>The City is consulting with key stakeholders, such as GRCA, to gather information on the existing conditions within the study area. We will continue to engage with key stakeholders throughout the study to understand potential impacts of the project to the area.</p> <p>Our study is focused on the sanitary sewer collection system and does not include the storm sewer collection and treatment system. The improvements are required for the aging sanitary sewer infrastructure, and to accommodate future growth within the City of Kitchener. The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. As many of your comments relate to the treatment of stormwater, you may wish to review the Stormwater Master Plan (ISMP) completed in 2016. Information on how the City plans to handle water resource issues and contamination in the stormwater system can be found in the ISMP available at the following link: https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx</p>
<p>Norman Z – July 19, 2022</p> <p>I have reviewed the background information of your Integrated Sanitary Master Planning. I believe any alternative solutions should have the lowest impact on our natural environments. In this connection, the University of Waterloo has developed a completely green technology for water leak detection. This IoT detection system is battery-free, recyclable and maintenace-free (aquasensing.com). Please let us know if we can offer further support.</p>	<p>Thank you for your suggestion about green technology for water leak detection.</p> <p>The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City. We will consider various alternative solutions for this study, including alternatives that seek to reduce negative impacts on the natural environment. The project team will look into your recommendation. Thanks for your offer of support. We will be in touch as needed.</p>
<p>JR - August 9, 2022</p> <p>I believe feasible solutions should be included in the "City of Kitchener Integrated Sanitary Master Plan", regarding how City will deal with an almost 30% increase in population in the next 8 years, with respect to the impact on the environment and freshwater ecosystems (any improvements of LIDs/ponds, or installation of the new one). Additionally, it should be included projections on the cumulative effects of</p>	<p>Thank you for taking the time to share your feedback and thoughts.</p> <p>You are right, sanitary related, feasible solutions will be included in the "City of Kitchener Integrated Sanitary Master Plan". Our study is focused on the sanitary sewer collection system and does not include the</p>

Comment	Response
<p>changing climate and the increase in urbanization; how they will impact the resilience and sustainability of sewer systems, and to what extent and how they will impact receiving water quality (despite the fact that it might not be the focus of the study, it is important to dedicate part of the work to that). Although the focus of your study is on the sanitary sewer collection system, many related problems should not be overlooked - the relationships among them are immense. Additionally, in my opinion, City overlooked the novel problem - salinization of freshwater (aquifers and downstream ecosystems as a consequence of excessive use of deicing salts), especially because Grand River has been experiencing a significant increase in chloride concentrations (and electro conductivity). Even if this is not the focus of the study, such a problem should be addressed promptly. Do you have any plans to address that problem, if not in this particular study, then, in the near future?</p>	<p>storm sewer collection and treatment system. The improvements are required for the aging sanitary sewer infrastructure, and to accommodate future growth within the City of Kitchener. The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. The City of Kitchener completed an Integrated Stormwater Master Plan in 2016. Information about the plans for Low-Impact Development's and green infrastructure can be found in the Integrated Stormwater Master Plan (linked below).</p> <p>The City is consulting with key stakeholders, such as the Grand River Conservation Authority, to gather information on the existing conditions within the study area. We will continue to engage with key stakeholders throughout the study to understand potential impacts of the project to the area. We are currently establishing a plan to address sanitary related problems. Your input is very important for our study.</p> <p>Integrated Stormwater Master Plan: https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx</p>

Appendix C – Question Tool and Responses



Home / Engage Kitchener / Integrated Sanitary Master Plan

Integrated Sanitary Master Plan



Did you know there are over 800km of sanitary sewer mains underneath our city?

What issues or concerns do you have about our existing sanitary infrastructure?

What do we need to consider to expand that infrastructure as our community grows?

The Study

The City is creating an Integrated Sanitary Master Plan to make sure we meet our sanitary service needs now and in the future. We will be reviewing existing conditions and developing an assessment of alternative solutions. You will have the opportunity to give input on the project objectives and on the proposed alternative solutions. We will then identify a preferred alternative based on our technical review and on the outcomes of our public consultations.

Our study follows an approved process under the Ontario Environmental Assessment Act. For more details, please read the Notice of Study Commencement.

How can you take part?

We want to hear from you! Use the "Subscribe" button at the top right-hand corner to get updates. If you have questions, please use the Questions tool below. You can also contact us for more information.

NEWS FEED	FORUM	QUESTIONS
-----------	-------	-----------

Questions

Do you have a question about this project? Ask it here.

To protect your privacy:

- Do not include your last name in your username
- Do not include any personal information (like your address) in your question

We usually respond within three business days. If your question is urgent, call the City of Kitchener at [519-741-2345](tel:519-741-2345) (TTY: [1-866-969-9994](tel:1-866-969-9994))





I agree to the Terms of Use and Privacy Policy for using Engagement HQ

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- [Lifecycle \(1\)](#)
- [Climate Change \(1\)](#)
- [Infiltration \(1\)](#)
- [Inflow \(1\)](#)
- [Intensification \(1\)](#)

Q Our sanitary sewers are an untapped source of thermal energy, how might the City of Kitchener integrate wastewater heat recovery into the Integrated Sanitary Master Plan in co-operation with the Region and other cities? This exploratory report on wastewater heat recovery (prepared for WR Community Energy by KEB Engineering) includes thermal maps for Kitchener. How actionable are these recommendations? Link: <https://wrcommunityenergy.ca/wp-content/uploads/2021/11/Waste-Water-Heat-Recovery-Report-FINAL.pdf>

Hayley asked, 3 months ago

Thank you for your interest, and for mentioning the Wastewater Heat Recovery in Waterloo Region report.

Wastewater heat recovery is on our radar. We have been working with the Region of Waterloo to identify opportunities for wastewater heat recovery. The Wastewater Heat Recovery in Waterloo Region report provides an overview of the sewer system and identifies the thermal heat recovery potential based on sewage flow. For those not familiar with wastewater heat recovery, it is the process of capturing heat from wastewater as it exits a building, and redirecting it for an alternate use in the building.

The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider climate change impacts through this study. As part of that, we will consider the recommendations of this report as part of our study.

Q How often do people flush wet wipes? Is there any trends with this to be concerned about? Are certain areas more likely to flush them? As climate change is wrecking havoc on our climate, how much rain can the sewers handle? What areas are most vulnerable to the sewers becoming overwhelmed? How has the construction of many new apartment/condo towers affected the sewer mains in the downtown core?



Marsy asked, 4 months ago

How often do people flush wet wipes? Is there any trends with this to be concerned about? Are certain areas more likely to flush them?

Thank you for your questions. Yes, there is reason to be concerned about the use of so-called flushable wipes. Wet wipes are a problem within municipal wastewater systems when flushed. The City of Kitchener does not record precise data on this issue, although anecdotally, wet wipes are encountered by Operations and Maintenance staff on a regular basis with some catchment areas being more problematic than others. Some areas of Kitchener's sewer pipes need to be flushed out more than others, and for some of these hot spot maintenance areas, flushable wipes are one of the factors. For example, staff pulls these wipes out of pumps at Woolner Station 2-3 per week. This is a costly maintenance activity and causes unnecessary wear and tear on the pumps. For context, the Woolner pumps would need to be opened and inspected annually if the wipes were not a factor.

As climate change is wrecking havoc on our climate, how much rain can the sewers handle? What areas are most vulnerable to the sewers becoming overwhelmed?

Since the early 2000s, the City has run several projects to reduce rainwater infiltration and inflow into the sanitary sewer system. For example, we diverted rainwater from the sanitary sewer system by disconnecting private sump pumps from the sanitary sewer. We redirected the water flow from private foundation sump pumps to the storm sewer system. By taking measures like these, we make the sanitary sewer system more resilient in the face of climate change.

Depending on the intensity and location of rain events, there may be a few cases where we have a sewer back-up due to rain coming into manholes from the roads. It will be through the Integrated Sanitary Master Plan study that we will identify the most vulnerable areas of Kitchener's sanitary sewer system and provide solutions for these areas.

The study will include modeling and analysis based on monitoring data including rainfall and sewer flow. We will also conduct a sensitivity analysis based on the effects of climate change.

Using the Integrated Sanitary Master Plan, we will manage, fund, and implement improvements to the sanitary sewer system to protect residents and the environment to the 2051 planning horizon.

How has the construction of many new apartment/condo towers affected the sewer mains in the downtown core?

We have not seen any issues related to capacity as a result of intensification.

#Climate Change #Infiltration #Inflow #Intensification

Q Is there any plan to switch neighbourhoods that are in the city that are still on septic (and surrounded by newer areas that are serviced) over to city sanitary sewer systems?



ar73 asked, 5 months ago

Thank you for your question. The Implementation Plan phase of the project will provide recommendations regarding the connection of built-up areas of the City that are currently serviced by septic systems to the sanitary sewer system.

Q Cressman Avenue , Kitchener May i know when do you build sewer line , drain line , water line Customers



chandra asked, about 1 year ago

Thank you for your question. The Master Plan will review existing conditions and evaluate planned growth and servicing needs to develop and assess alternative solutions for sanitary servicing. Individual project locations have not been identified at this time. A preferred solution to support planned growth across the City will be identified following a technical review of alternatives with input received from agencies, Indigenous communities and stakeholders.

Q What is the current expected life/capacity for our sanitary systems?



encodedream asked, about 1 year ago

Thank you for your question. The City of Kitchener sanitary system includes a variety of systems and infrastructure that have a wide age range of longevity based on when they were installed. Life expectancy is based on many factors including the maintenance history of the various components and the ability to meet the servicing needs of system users.

The Master Plan will identify recommended projects to address current and future sanitary servicing needs of the community. Recommended projects will be prioritized based on factors including life expectancy, as well as other criteria to be developed as part of this study.

Thank you for your interest in this project.

#Lifecycle

PIC 1 Notification Materials & Comments Received

From: [Lang, Sarah](#)
Cc: [Jean Hao](#); [Hohner, Paula](#); [Paul, Jeff](#)
Bcc: fisheriesprotection@dfo-mpo.gc.ca; joan.delvillarcuicas@ontario.ca; eanotification.wcregion@ontario.ca; nancy.rutherford@ontario.ca; omafra.eanotices@ontario.ca; erick.boyd@ontario.ca; karina.cerniavskaja@ontario.ca; andrew.sturgess@ontario.ca; joseph.harvey@ontario.ca; karla.barboza@ontario.ca; Ashley.Johnson@ontario.ca; lise.chabot@ontario.ca; NoticeReview@infrastructureontario.ca; mark.laforme@mncfn.ca; doca.admin@mncfn.ca; rvanstone@sixnations.ca; hdi2@bellnet.ca; traceyghdi@gmail.com; aarondetlor@gmail.com; lori-jeanne.bolduc@wendake.ca; mario.groslois@wendake.ca; regionalclerk@regionofwaterloo.ca; transportation@regionofwaterloo.ca; cameron.rapp@waterloo.ca; olga.smith@waterloo.ca; questions@cambridge.ca; questions@cambridge.ca; jeff.molenhuis@wilmot.ca; dawn.mittelholtz@wilmot.ca; jpuppe@woolwich.ca; cmaguire@woolwich.ca; rmiller@woolwich.ca; rtucker@woolwich.ca; CanCustomerService@allstream.com; daniel.steffler@bell.ca; russ.mclean@enbridge.com; est.reg.crossing@enbridge.com; susan.sun@hydroone.com; secondarylanduse@hydroone.com; customerservice@kwhydro.ca; richard.bollinger@rci.rogers.com; Bob.quick@telus.com; kschimus@uniongas.com; rbigelow@uniongas.com; RWei@wnhydro.com; KHagerman@regionofwaterloo.ca; bcoady@regionofwaterloo.ca; marie-schroeder@wrhba.com; imclean@greaterkwchamber.com; cody.boomer@kitchener.ca; water.institute@uwaterloo.ca; lisa.myslicki@infrastructureontario.ca; bbrown@grandriver.ca; theywood@grandriver.ca; cfosterpengelly@grandriver.ca; bryan.larkin@wrps.on.ca; cherri.greeno@wrps.on.ca;
Subject: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Friday, July 8, 2022 10:08:00 AM
Attachments: [Kitchener Integrated Sanitary Master Plan - Notice of Virtual PIC 1.pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

Stantec



The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

Please consider the environment before printing this email.

From: [Engage](#)
To: [Lang, Sarah](#)
Subject: Integrated Sanitary Master Plan: Virtual Information Centre open until Aug 8
Date: Tuesday, July 12, 2022 9:53:04 AM



Hello subscribers,

Thank you for subscribing for updates to the City of Kitchener [Integrated Sanitary Master Plan](#) project.

Our first virtual public information centre will be online to present the background information on the Integrated Sanitary Master Plan study. The materials are now available and we want to hear from you!

Materials include a video presentation, slide deck, and transcript. Once you've had a chance to look through those, please share your feedback. Add your comments to the Forum, ask a question, or email a member of the project team directly.

Please also take a few seconds to answer our 'Quick Poll' to tell us what format you prefer for future public information centres for the Integrated Sanitary Master Plan. We are collecting

feedback until **August 8, 2022**

If you have any accessibility requirements in order to participate in this study, please contact the City of Kitchener project manager, Jean Hao at Jean.Hao@kitchener.ca or 519-741-2200 ext. 4156.

Warm regards,

Engage Kitchener

You're receiving this email because you are a registered participant on EngageWR.

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cityofkitchener



cityofkitchener 89w

We're developing our first Integrated Sanitary Masterplan. Learn more and let us know what's important to you.

No comments yet.

Start the conversation.

[View insights](#)



3 likes

July 14, 2022



Add a comment...





City of Kitchener

Published by Linnea Scian · July 14, 2022 ·



We're developing our first Integrated Sanitary Masterplan. Learn more and let us know what's important to you.



ENGAGEWR.CA

Notice of Virtual Public Information Centre 1: City of Kitchener
Integrated Sanitary Master Plan

[Learn more](#)

From: [Jean Hao](#)
To: [Paul, Jeff](#); [Hohner, Paula](#); [Bhatia, Faiz](#)
Cc: [Nick Gollan](#); [Sarah Anderson](#); [Lang, Sarah](#); [Kielstra, David](#)
Subject: FW: Hydro One Response: 20220720-NoticeOfPIC1-Integrated Sanitary Master Plan
Date: Wednesday, July 20, 2022 2:46:43 PM
Attachments: [20220720-NoticeOfPIC1-Integrated Sanitary Master Plan.pdf](#)

Hi Jeff,

Please see the attached letter from Hydro One.

Regards,

Jean Hao, P.Eng., PMP
Design & Construction Project Manager, Utility Planning and Programs | Sanitary and Stormwater Utilities | City of Kitchener
Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

-----Original Message-----

From: SUN Hongxia <Susan.SUN@HydroOne.com> On Behalf Of SECONDARY LAND USE Department
Sent: Wednesday, July 20, 2022 2:06 PM
To: Jean Hao <Jean.Hao@kitchener.ca>
Cc: SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>
Subject: Hydro One Response: 20220720-NoticeOfPIC1-Integrated Sanitary Master Plan

[You don't often get email from department.secondarylanduse@hydroone.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

Please see the attached for Hydro One's Response.

Hydro One Networks Inc
SecondaryLandUse@HydroOne.com

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Hydro One Networks Inc.

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

HydroOne.com

July 20, 2022

Re: Integrated Sanitary Master Plan

Attention:
Jean Hao, P.Eng., PMP
Design & Construction Project Manager
Utility Planning and Programs
City of Kitchener

Thank you for sending us notification regarding (Integrated Sanitary Master Plan). In our 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 (Integrated Sanitary Master Plan) 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.***



Hydro One Networks Inc.

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

HydroOne.com

October 31, 2022

Re: Integrated Sanitary Master Plan

Attention:
Veronica Kroess, P.Eng.
Project Manager
City of Waterloo

Thank you for sending us notification regarding (Integrated Sanitary Master Plan). 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.

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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.

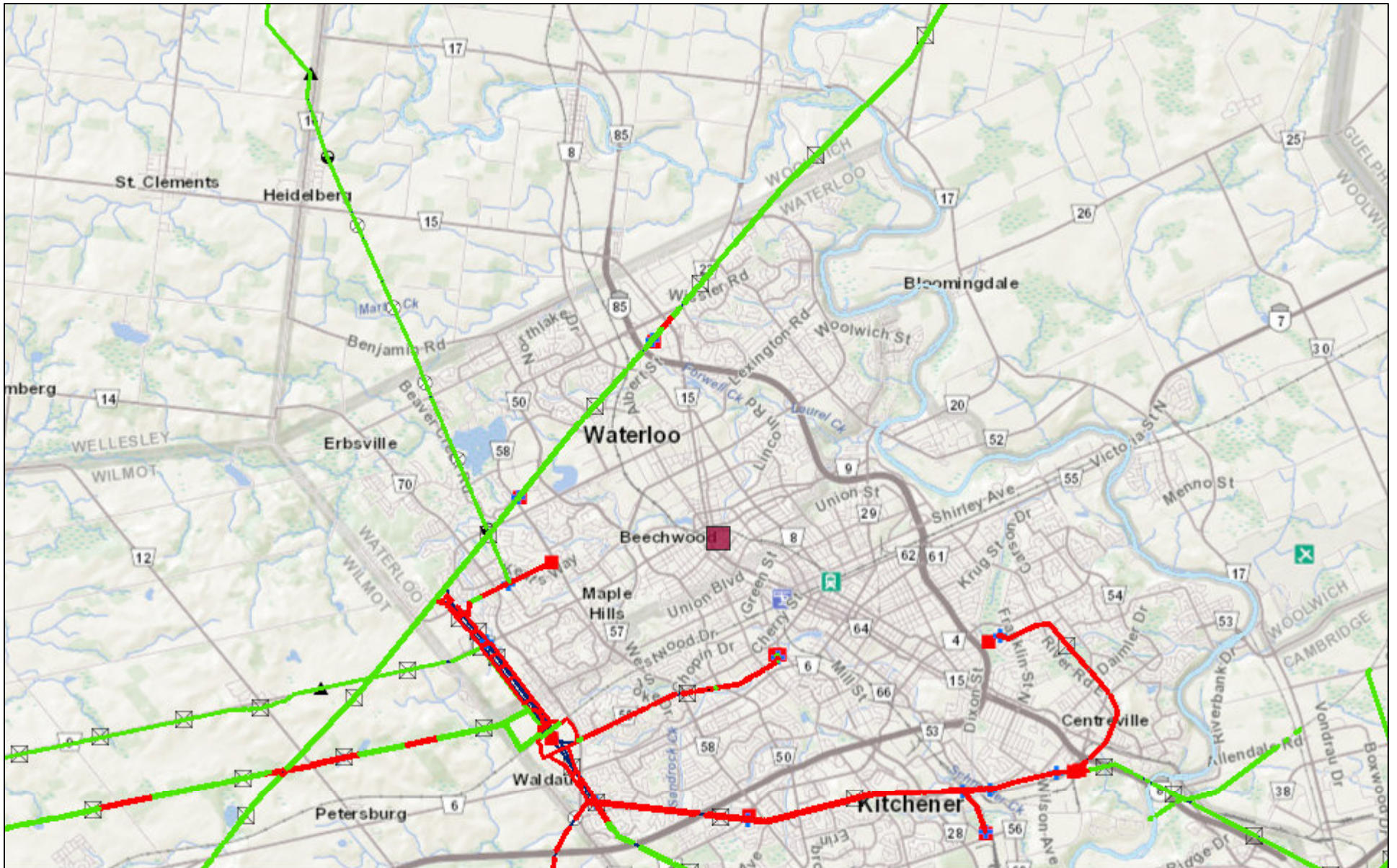
Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure.

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

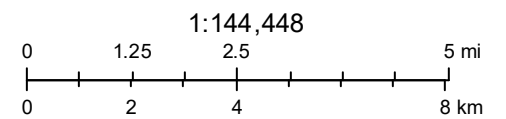
Sent on behalf of,

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

Landscape PDF



September 15, 2022



From: [Jean Hao](#)
To: [Lang, Sarah](#)
Cc: [Hohner, Paula](#)
Subject: FW: IO EA Notice Response - Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Monday, July 18, 2022 11:03:30 AM
Attachments: [image001.png](#)

Hi Sarah,

I have sent the below email, please keep this in your record.

Thanks,

Jean Hao, P.Eng., PMP

Design & Construction Project Manager, Utility Planning and Programs| Sanitary and Stormwater Utilities | City of Kitchener

Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Jean Hao

Sent: Monday, July 18, 2022 10:59 AM

To: 'Contini, Rachael (IO)' <Rachael.Contini@infrastructureontario.ca>

Cc: Jeff.Paul@stantec.com; 'noticereview@infrastructureontario.ca' <noticereview@infrastructureontario.ca>; Nick Gollan <Nick.Gollan@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Bhatia, Faiz <Faiz.Bhatia@stantec.com>; Sarah Anderson <Sarah.Anderson@kitchener.ca>

Subject: RE: IO EA Notice Response - Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1

Hi Rachael,

Thank you for your comment on the City of Kitchener Integrated Sanitary Master Plan. If we need property from the province for any of our projects, we will reach out to discuss the next steps.

We will continue to consult you and send information to the below email address: noticereview@infrastructureontario.ca.

Best Regards,

Jean Hao, P.Eng., PMP

Design & Construction Project Manager, Utility Planning and Programs| Sanitary and Stormwater Utilities | City of Kitchener

Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Contini, Rachael (IO) <Rachael.Contini@infrastructureontario.ca>

Sent: Tuesday, July 12, 2022 2:08 PM

To: Jean Hao <Jean.Hao@kitchener.ca>; Jeff.Paul@stantec.com

Subject: [EXTERNAL] IO EA Notice Response - Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1

Good Afternoon

Thank you for sending us the Notice of Commencement for the City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1.

Our initial scan indicates that property owned by the Minister of Government and Consumer Services is within and adjacent to your project's study area. This property is identified by the following Pins:

- P73275

While this was identified in our scan, it is ultimately the proponent's responsibility to verify if provincial government property is within the study area. Title documents may identify owners of provincial government property as any of the following:

- Her Majesty the Queen
- His Majesty the King
- Hydro One
- Hydro One Networks Inc.
- Management Board Secretariat (MBS)
- Minister of Economic Development, Employment and Infrastructure (MEDEI)
- Minister of Energy and Infrastructure (MEI)
- Minister of Government and Consumer Services (MGCS)
- Minister of Infrastructure (MOI)
- Minister of Natural Resources and Forestry (MNRF)
- Minister of Public Infrastructure Renewal (PIR)
- Minister of Public Works
- Minister of Transportation (MTO)
- Ontario Lands Corporation (OLC)
- Ontario Realty Corporation (ORC)

If provincial government property in the study area is not required for the project, please continue to consult us as a directly affected stakeholder. However, if government property is required for the project, the proponent should contact us so that we can advise about requirements for obtaining government property.

Additionally, please remember to send notices to our dedicated notice email address: noticereview@infrastructureontario.ca

Kind regards,



Rachael Contini (she, her)

Infrastructure Ontario
Co-op, Environmental Management
rachael.contini@infrastructureontario.ca
Phone: +1 647-264-0969
www.infrastructureontario.ca

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From: Matthew Day <mday@wrcommunityenergy.ca>

Sent: Monday, July 11, 2022 2:05 PM

To: Jean Hao <Jean.Hao@kitchener.ca>; jeff.paul@stantec.com

Cc: Anna Marie Cipriani <AnnaMarie.Cipriani@kitchener.ca>

Subject: [EXTERNAL] Wastewater Heat Recovery Considerations in the Sanitary Master Plan

Hi Jean and Jeff.

Thanks for your work on the Sanitary Master Plan.

(I'm cc'ing Anna Marie Cipriani to this thread for her information)


Last year, WR Community Energy (a partnership between the Region, Cities, and Local Utilities) released this [report](#) looking at wastewater heat recovery (WWHR) potential in Waterloo Region. We found strong opportunities in Kitchener and Cambridge.

Since then, we've been having follow-up conversations with the Region, our cities, and solution providers to corroborate our findings and identify and mitigate potential challenges.

We believe there are WWHR opportunities in the City of Kitchener that a Master Plan could support.

Please let me know if you're interested in a follow-up conversation.

Thanks,

 <p>WR COMMUNITY ENERGY</p>	<p>Matthew Day MA, CEM (he/him) Community Energy Program Manager C: (519) 589-6329 W: wrcommunityenergy.ca T: @wrcenergy L: linkedin.com/company/wrcenergy</p> <p><i>WR Community Energy is a collaboration with the Region of Waterloo, Enbridge, Kitchener Utilities, City of Cambridge, City of Kitchener, City of Waterloo, GrandBridge Energy, Kitchener Wilmot Hydro and Waterloo North Hydro.</i></p>
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From: [Engage](#)
To: [Lang, Sarah](#)
Subject: New comment added on Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan
Date: Wednesday, July 13, 2022 6:56:08 AM

Hi Sarah Lang

You have received a new comment on the Forum Topic, Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan on project Integrated Sanitary Master Plan on your site,

Thank you for providing a good basis of design and opportunities for next steps. Stormwater and waste management is the unsung hero of a city! Some key issues for me coming out of this study is whether a cross-functional approach may be required to handle the new challenges of developing projects within tight restrictions of a densifying city. There are major synergies that would work for broader sections of the 2051 plan. We have acres of unused parking lots within the cities boundary. These are massive water collecting basins which for one, have too many parking spaces allocated due to an outdated building code, and secondly, they are collocated to major energy and water consuming/waste producing businesses. These parking areas should be rethought for their energy production via solar carports, water collecting potential, redesign for added housing needs, and considered for larger, underground reservoirs to “pre-store” groundwater for use in irrigation, etc. This would tackle our energy transition, elevate and up-cycle housing and affordable housing, protect our water resources, drive down sprawl, and reuse existing space without a lot of added costs to the city. I know very little about wastewater management but could there be a way to distribute treatment facilities to remove such pressure on centralized systems? The 800km of piping under our roads seems like a glaring misuse of tax money to dig up roads, upgrade massive equipment and from my perspective, “do as we have done before”. A decentralized program would be interesting to send wastewater to numerous smaller facilities, use new technologies such as anaerobic digesters to create biofuels or electricity, and then send treated water into our massive aqueduct system for egress to water cycle. I agree with statement in section 2. This is a more complex problem than merely dealing with waste and water. There is a clear holistic approach needed to work toward integrating other aspects of the 2052 goals to make this work for the cities growth in a consistently resource constrained world. Great team at the table to work on a solution for this! Criteria is good for evaluation. It is at least a starting point to get work off the ground. I am very interested in understanding the holistic approach to this issue versus segregating it away as many engineering projects can do. There are so many services that are interconnected here when working on one of our largest utility requirements. As my comment above suggest, I believe that this should be a good opportunity to rethink space, rethink technology options and strive to build a framework that supports other key pillars of our cities 2052 goals to benefit people, business and our future generations.

Added by IanS

[Click here](#) to view the comment

This comment is subject to moderation.

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From: [Engage](#)
To: [Lang, Sarah](#)
Subject: New comment added on Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan
Date: Friday, July 29, 2022 10:29:39 AM

Hi Sarah Lang

You have received a new comment on the Forum Topic, Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan on project Integrated Sanitary Master Plan on your site,

1. Engaging GRCA and stakeholders to acquire and better publicize the water resources along the grand river, tributaries and other water resources in areas of public use. For example, various springs are present along the banks of the grand but no public inventories of them (or their recharge areas) are publicly available. For effective scoping of such water resources and comprehensive planning i believe we need to integrate and better share both out inventory, knowledge and public access of various stakeholder data resources, essentially trying to reduce unknown unknowns.2. Rather than growth alone, I would also look at alternatives to reducing intensity rather than expanding to handle increased volume. Further, during the discussion and planning to expand current treatment infrastructure to cope with the additional volume, we should also seriously look at reducing the intensity of impact there as well. I think this is especially salient with regard to emerging contaminants such as microplastics, as well as contaminants with significant potential to have legacy effects like salt and phosphorous.3. I think Adaptive management is key to sustainability here. Not just considering today but establishing effective ongoing feedback and communication frameworks for Adaptive Management.

Added by Ari Liso

[Click here](#) to view the comment

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From: [Engage](#)
To: [Lang, Sarah](#)
Subject: New comment added on Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan
Date: Friday, July 29, 2022 10:24:37 AM

Hi Sarah Lang

You have received a new comment on the Forum Topic, Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan on project Integrated Sanitary Master Plan on your site,

How the City of Kitchener Integrated Sanitary Master Plan will contribute in reducing greenhouse gas (GHG) emissions in future, with the new exciting challenge in addressing climate change and Anthropogenic Greenhouse Gas (GHG) Emissions? Do you have any plan in improving the low impact development (LID)/green infrastructure in the City of Kitchener?

Added by Fereidoun Rezanezhad

[Click here](#) to view the comment

This comment is subject to moderation.

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From: [Sarah Anderson](#)
To: [Jean Hao](#); [Paul, Jeff](#); [Lang, Sarah](#)
Subject: FW: A new question has been added to Questions
Date: Tuesday, July 12, 2022 10:12:21 AM

From: Engage <notifications@engagementhq.com>
Sent: Monday, July 11, 2022 1:57 PM
To: notifications@engagementhq.com; Jean Hao <Jean.Hao@kitchener.ca>; Paula.Hohner@stantec.com; David.Kielstra@stantec.com; Sarah Anderson <Sarah.Anderson@kitchener.ca>
Subject: [EXTERNAL] A new question has been added to Questions

Hi there,

Just a quick heads up to let you know that a new question has been asked at Integrated Sanitary Master Plan by Hayley.

The question that was asked is:

Our sanitary sewers are an untapped source of thermal energy, how might the City of Kitchener integrate wastewater heat recovery into the Integrated Sanitary Master Plan in cooperation with the Region and other cities? This exploratory report on wastewater heat recovery (prepared for WR Community Energy by KEB Engineering) includes thermal maps for Kitchener. How actionable are these recommendations? Link: <https://wrcommunityenergy.ca/wp-content/uploads/2021/11/Waste-Water-Heat-Recovery-Report-FINAL.pdf>

Please DO NOT reply to this email. If you want to provide an answer to this question, sign into your site and respond to the question from within the Q & A tool.

Regards

Bang The Table Team

From: [Engage](#)
To: [Lang, Sarah](#)
Subject: New comment added on Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan
Date: Monday, August 8, 2022 3:14:32 PM

Hi Sarah Lang

You have received a new comment on the Forum Topic, Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan on project Integrated Sanitary Master Plan on your site,

I believe feasible solutions should be included in the "City of Kitchener Integrated Sanitary Master Plan", regarding how City will deal with an almost 30% increase in population in the next 8 years, with respect to the impact on the environment and freshwater ecosystems (any improvements of LIDs/ponds, or installation of the new one). Additionally, it should be included projections on the cumulative effects of changing climate and the increase in urbanization; how they will impact the resilience and sustainability of sewer systems, and to what extent and how they will impact receiving water quality (despite the fact that it might not be the focus of the study, it is important to dedicate part of the work to that). Although the focus of your study is on the sanitary sewer collection system, many related problems should not be overlooked - the relationships among them are immense. Additionally, in my opinion, City overlooked the novel problem - salinization of freshwater (aquifers and downstream ecosystems as a consequence of excessive use of deicing salts), especially because Grand River has been experiencing a significant increase in chloride concentrations (and electro conductivity). Even if this is not the focus of the study, such a problem should be addressed promptly. Do you have any plans to address that problem, if not in this particular study, then, in the near future?

Added by JR

[Click here](#) to view the comment

This comment is subject to moderation.

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From: [Engage](#)
To: [Lang, Sarah](#)
Subject: New comment added on Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan
Date: Monday, July 25, 2022 6:46:23 AM

Hi Sarah Lang

You have received a new comment on the Forum Topic, Virtual Public Information Centre 1: City of Kitchener Integrated Sanitary Master Plan on project Integrated Sanitary Master Plan on your site,

The study should in my view include a further discussion and include details on the subject of "Sanitary Sewer Heat Recovery". This should include the installation of temperature monitoring systems to get a better understanding of the thermal profile that together with flows that are well known identify the renewable energy opportunities to support future developments in our city.

Added by Klas Bockasten

[Click here](#) to view the comment

This comment is subject to moderation.

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APPENDIX A.5

Public Information Centre 2

Welcome



Integrated Sanitary Master Plan Class Environmental Assessment

Virtual Public Information Centre 2 City of Kitchener

December 6, 2023

Welcome!



This Virtual Public Information Centre will:



Provide an overview of the study process and project background



Present the preferred strategy and next steps



Collect feedback, answer questions and provide an opportunity to get involved in the project

We encourage you to get involved in this study. Comments received will help to confirm the strategy for current and future sanitary sewer needs in the City of Kitchener.

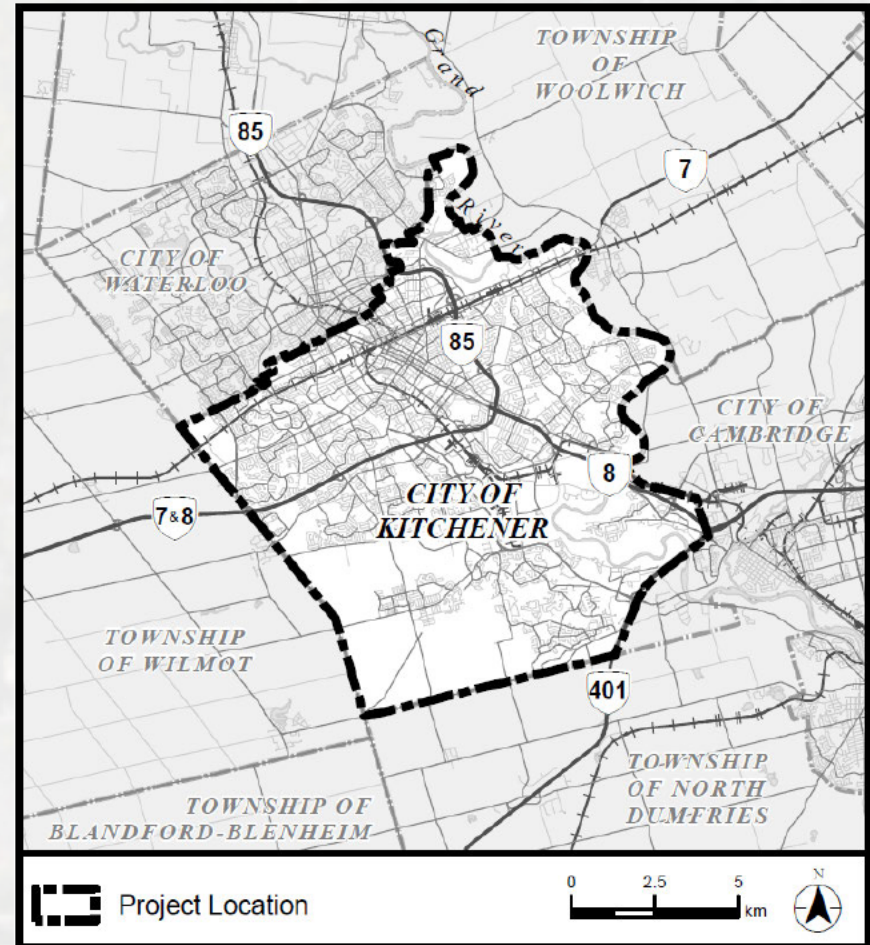
What are we doing?



The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The Plan is examining the City's sanitary sewer system needs by looking at:

- New planning policies
- Growth projections and needs for new development
- Current needs and issues that exist in the community

The Master Plan will identify deficiencies in the sanitary sewer system. The Plan will develop and evaluate alternative solutions and make recommendations to address these deficiencies while considering planned growth across the City.



Municipal Class EA Process



The Municipal Class Environmental Assessment (EA) is a process that allows for the planning and implementation of municipal infrastructure (sewers, watermains, roads, etc.). The process is legislated by the Ontario Environmental Assessment Act. The process can be used for planning individual projects or to address groups of projects, through a Master Plan. Master Plans are long range plans which look at existing and future needs. This Master Plan will meet the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process. For most projects, this study work will allow projects to proceed to design and construction. For more complex projects with greater impacts, further study is required.

Phase 1: Problem and Opportunity

- Review background planning and policy documents
- Identify study area needs, problems and opportunities

Phase 2: Alternative Solutions

- Inventory existing study area conditions
- Identify and evaluate feasible Alternative Solutions
- Select Recommended Alternative Solution and present for comment

Problem & Opportunity



At the start of the Class EA process, a problem and opportunity statement is developed to help guide the work. The following statement was developed for this study:


The City of Kitchener has significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure.

This sanitary servicing review will assess the current state of the City's sanitary sewers and pumping stations. Where issues are identified, the City will identify preferred solutions that will continue to service existing homes and businesses as well as provide the ability to service identified growth areas. The City is committed to providing a reliable and sustainable sanitary servicing system.

How did we do this Study?



The work listed below was undertaken:

- 
- Extensive review of previous studies.
 - Review of previous information on the state of repair of the existing sewer system.
 - Collection of rainfall data and flow data from the sewer system.
 - Collection of data from the City's sanitary pumping stations.
 - Updating of the computer model of the sanitary system to replicate real world flows and data.
 - Running the computer model through various scenarios to simulate future conditions (10 years and 30 years into the future) and rainfall events.

Do you have any questions about the work undertaken?

What did we find out?



On completion of review of the City's sanitary system, the key findings include:



The sanitary system has capacity for growth. Upgrades to the system to accommodate growth are minimal.



Some repairs and improvements to the sanitary system are required.



Information on the state of the existing sanitary sewers is limited. Gaps exist, specifically information on trunk sewers, which limits our understanding of the condition of the existing system.

Surface water infiltration into the sanitary system is an issue and should be reduced.



Climate change increases the risk of extreme rainfall. The sanitary system may require additional upgrades to handle the increased rainfall in future.

Hydrogen sulfide has been an issue in the City. It forms in sewage that has been in the system for too long and is corrosive to concrete. The presence of hydrogen sulfide should be monitored in the system.

What are our alternative solutions?



Alternative solutions were developed to determine a preferred strategy:

Alternative 1: Do Nothing:

Status quo and involves no changes to the existing sanitary sewer system (i.e., pumping stations, sewers, siphons).



Not feasible for the City to carry forward for further consideration

Alternative 2: Shape Community Growth:

Continue to support community growth and understand sanitary servicing needs.



Carry forward as part of City's overall strategy

Alternative 3: Infrastructure Updates:

Construction work required to provide more capacity (i.e. pipe upgrades, pumping station expansions).



Carry forward as part of City's overall strategy

Alternative 4: Data Acquisition, Flow Monitoring, and Inflow & Infiltration Mitigation Programs:

Implement programs to reduce water inflow and infiltration into the system. Through these programs we will collect data about the existing system and improve data accuracy. This will inform the City of future project needs.



Carry forward as part of City's overall strategy


The alternatives carried forward are explained on subsequent slides. In addition, the Master Plan report will provide more detailed information about the evaluation of alternative solutions.

Do you have any questions about the alternative solutions?

Alternative Solutions Not Carried Forward



Alternative 1 - Do Nothing was not feasible for the City to carry forward for further consideration for reasons listed below:



Does not support future growth within the City of Kitchener.

Does not upgrade aging infrastructure, increasing the possibility of infrastructure failure.

Failing infrastructure poses risks to the environment, and public health and safety (i.e., ground contamination, etc.).

Failing infrastructure has the potential to impact private property (i.e., flooding, etc.).

Shape Community Growth (Alternative 2)



The existing sanitary sewer system in the City of Kitchener is able to accommodate anticipated growth for the next 30 years with some recommended improvements to the sanitary system that are identified under Alternative 3.

This alternative is recommended to ensure the City continues to monitor growth and ensure it is consistent with current expectations. Specific actions include:

- Continue to monitor growth to ensure consistency with anticipated growth
- Undertake updates to the sewer model when significant growth projection deviations occur.
- Where current growth projection deviations are noted, identify any required sewer upgrades.

Concerns regarding trunk sewers, pumping stations and growth over the 30-year forecast will be partially addressed through this alternative and partially addressed through further data collection.

This alternative is carried forward.

Upgrades to Existing Infrastructure (Alternative 3)



This alternative includes upgrades to existing infrastructure to increase flow capacity. The upgrades will apply to the existing sanitary sewers, pumping stations and forcemains. These projects include:

A. Capacity-based projects

- **Increase the capacity** in the system. These replacements improve flows in the system and meet the needs of projected growth.

B. Condition-based projects

- Upgrades to **improve sewers and pumping stations that are in poor condition**. The exact scope of work will require further investigation. The work may include repair, rehabilitation, or replacement.

Due to the nature of these projects, they are exempt from further EA study.

Upgrades to Existing Infrastructure (Alternative 3)

Sanitary Sewer Capacity-based Solutions



Projects which are required to increase capacity in the sanitary system are:

A. Capacity-based projects

Several sewer projects are required in the next **5 years**. These projects will accommodate existing and higher flows in the sanitary system:

- **King Street** – sewer pipe replacement
- **Dalewood Drive** – sewer pipe replacement
- **Homer Watson Boulevard** – sewer pipe replacement
- **Sandrock Trunk** – sewer pipe replacement
- **Shirley Sanitary Pumping Station** – install additional pumps

The following projects are required in the **6 to 10 year** horizon. These projects will accommodate future flow in the sanitary system:

- **New Dundee Sanitary Pumping Station** – install additional pumps
- **Manchester Road** – sewer pipe replacement
- **Robert Ferrie Drive** – sewer pipe replacement

See our interactive map for the locations of these projects.

Upgrades to Existing Infrastructure (Alternative 3)

Sanitary Sewer Condition-based Solutions



Projects which are required to improve the condition of the sanitary system are:

B. Condition-based solutions

Upgrades will improve sewers which are in poor condition and are required in the next 5 years. The exact work to be completed will require further investigation and may include:

- Replacement of the sewer by excavating and replacing the pipes.
- Rehabilitating the sewer by placing a lining inside the existing sewer.
- Repairing damaged sections and leaving the remaining sewer intact.

Sanitary pumping station improvements are also required. This work is generally considered ongoing maintenance. As these facilities age, components of the facilities require replacement and maintenance.

A list of projects under this category is provided on the next slide.

See our interactive map for the locations of these projects.

Upgrades to Existing Infrastructure (Alternative 3)

Condition-based Solutions - Sewer Pipe



B. Condition-based solutions

Sewer improvements are required in these areas:

- Alpine R.
- Arrowhead Cres.
- Bankside Dr.
- Barberry Pl.
- Bedford Rd.
- Belmont Ln. W
- Breithaupt St.
- Brembel St.
- Broadmoor Ave.
- Broadview Ave.
- Burbank Rd.
- Burgetz Ave.
- Cameron St. N
- Carrol St.
- Cherry Hill Dr.
- Coach Hill Dr. (2*)
- Conestoga Pkwy.
- Connaught Pl.
- Dawn Ridge Dr.
- Deer Ridge Dr.
- Denlow St.
- Driftwood Dr.
- Dumfries Ave.
- Farrier Dr.
- Fisher-Hallman Rd.
- Gateway Park Dr.
- Green Valley Dr.
- Greenbrook Dr. (2*)
- Greenfield Ave
- Heritage Dr. (2 projects)
- Highbrook Ct.
- Highbrook St.
- Highland Cres.
- Hillmount St.
- Hollinger Cres.
- Huck Cres.
- King St. E.
- Lower Canada Cres.
- Manitou Dr.
- Marlis Cres.
- McLeod Ct.
- Morrison Park
- Morrison Rd.
- Nipigon St.
- Northmanor Cres. (2*)
- Old Mill Rd. (2*)
- Ottawa St. (2*)
- Overlea Dr.
- Paulander Dr.
- Richmond Ave.
- Ristau Cres.
- Rock Ave.
- Sandsprings Cres.
- Selkirk Ct.
- Siebart Ave.
- Spring Valley SPS
- Spur Line Trail
- Stoke Dr.
- Stonybrook Dr.
- Union Blvd.
- Vanier Dr.
- Weichel St.
- Westforest Trail (2*)
- Westheights Dr.
- Wheatfield Cres.
- Wilson Ave.
- Windward Pl.
- Woolwich St.

(2*) → two projects required in the area.

See our interactive map for more details on these projects.

Upgrades to Existing Infrastructure (Alternative 3)

Condition-based Solutions – Sanitary Pumping Stations



B. Condition-based solutions

Sanitary pumping station (SPS) improvements are required for these sanitary pumping stations:

- Apple Tree SPS
- Bancroft SPS
- Carson SPS
- Chandos SPS
- Conestoga College SPS
- Falconridge SPS
- King Street SPS
- Manchester SPS
- New Dundee SPS
- Oxford SPS
- Patricia SPS
- River Birch SPS
- Springmount SPS
- Stoke SPS
- Shirley SPS
- Woolner SPS

Upgrades also include work to ensure the City of Kitchener's pumping stations are compliant with the National Fire Protection Association requirements.

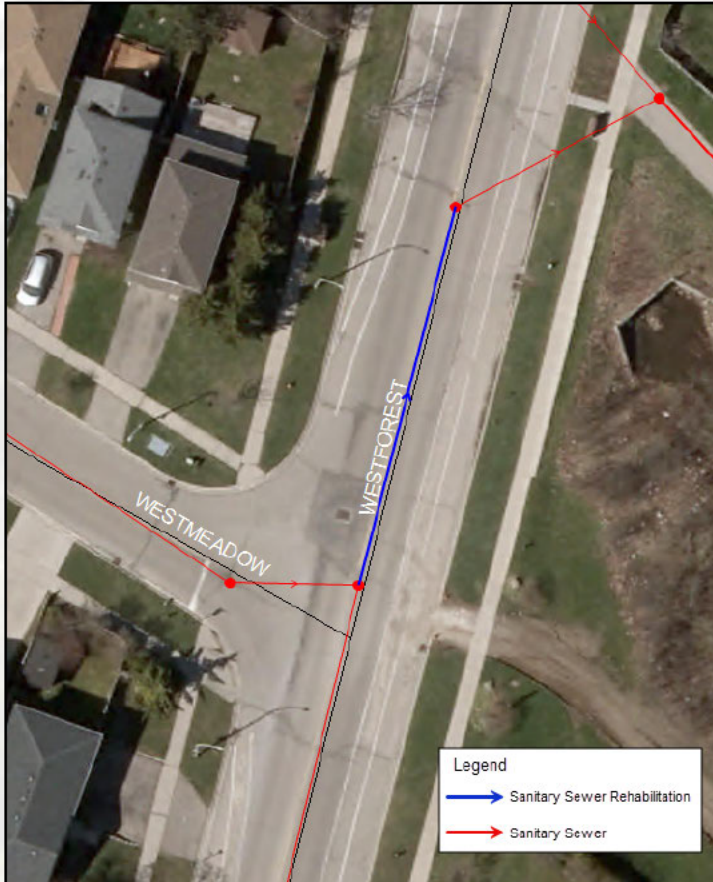
See our interactive map for more details on these projects.

Example of Construction Project

Sewer Rehabilitation – Westforest Trail



Project Location: Westforest Trail between Westmeadow Dr and Hidden Creek Dr



Approximate Distance: 190m

Anticipated Construction Year: 2025

Length of Construction: approximately 4 months

Anticipated Impacts:

- Reduced traffic lanes
- Vibration
- Noise
- Dust

Mitigation:

- Traffic management (i.e., signage, detours, outreach etc.)
- Construction will occur during the day-time
- Dust control measures

These details are subject to change.

Projects Nearby Natural Areas



Some projects listed on slides 12, 14 and 15 are adjacent to, or within natural heritage areas and City park spaces.

- Apple Tree SPS
- Bancroft SPS
- Bridgeport SPS
- Carson SPS
- Chandos SPS
- Dalewood Dr.
- Falconridge SPS
- Greenbrook Dr.
- Homer Watson SPS
- King Street SPS
- Manchester SPS
- McLeod Ct.
- Morrison Rd.
- Ottawa St.
- Otterbein SPS
- Pioneer Tower SPS
- Riverbend SPS
- Shirley SPS
- Springmount SPS
- Stoke SPS
- Union Blvd.
- Woolner SPS

Potential impacts to natural heritage features and City's park spaces will be identified during detailed design, and mitigated to the extent possible.

Data Acquisition, Flow Monitoring, and Inflow & Infiltration Mitigation Programs (Alternative 4)



This solution refers to a broad collection of programs. The goal of the programs are to reduce flows in the sanitary sewer system and improve the City's understanding of the state of the system. This will allow the City to better assess the condition of the system. Programs include:

Rainfall & Flow Monitoring Program

This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to better target system improvements with this information.

Computer Model Updates & Maintenance

This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making.

Sanitary Sewer & Forcemain Investigation Program

This program enhances the City's existing program which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10 year frequency to assess any issues in a timely manner.

Data Acquisition, Flow Monitoring, and Inflow & Infiltration Mitigation Programs (Alternative 4) Continued



Data collection will allow the City to better assess inflow and infiltration into the sanitary system. This alternative recommends programs to remove sources of strain on the system caused by:

- The inflow of excess water into sewer pipes. Inflow water comes from yards, roofs, drains, downspouts, and manhole covers.
- The infiltration of excess water from the groundwater system. The water then enters the sewers. Infiltration occurs following large storm events that can trigger a rise in groundwater levels.

Inflow and Infiltration Reduction Program

This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows.

Hydrogen Sulfide Monitoring and Dosing Program

This involves the monitoring of hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels.

Additional innovation programs may be considered in the Master Plan report.

Summary of Recommendations



The following solutions are recommended for this Master Plan:

- **Monitoring Growth**
- **Capital Upgrades**
 - Capacity-based projects
 - Condition-based projects
- **Data Acquisition & Flow Monitoring**
 - Rainfall and Flow Monitoring Program
 - Sanitary Hydraulic Model Updates & Maintenance
 - Sanitary Sewer & Forcemain Investigation Program
 - Inflow and Infiltration Program
 - Hydrogen Sulfide Monitoring and Dosing Program

Please comment
on the
recommended
strategy!

Opportunities for innovation within the system (i.e., wastewater heat recovery, decentralized systems) will be explored by the City under separate, future study.

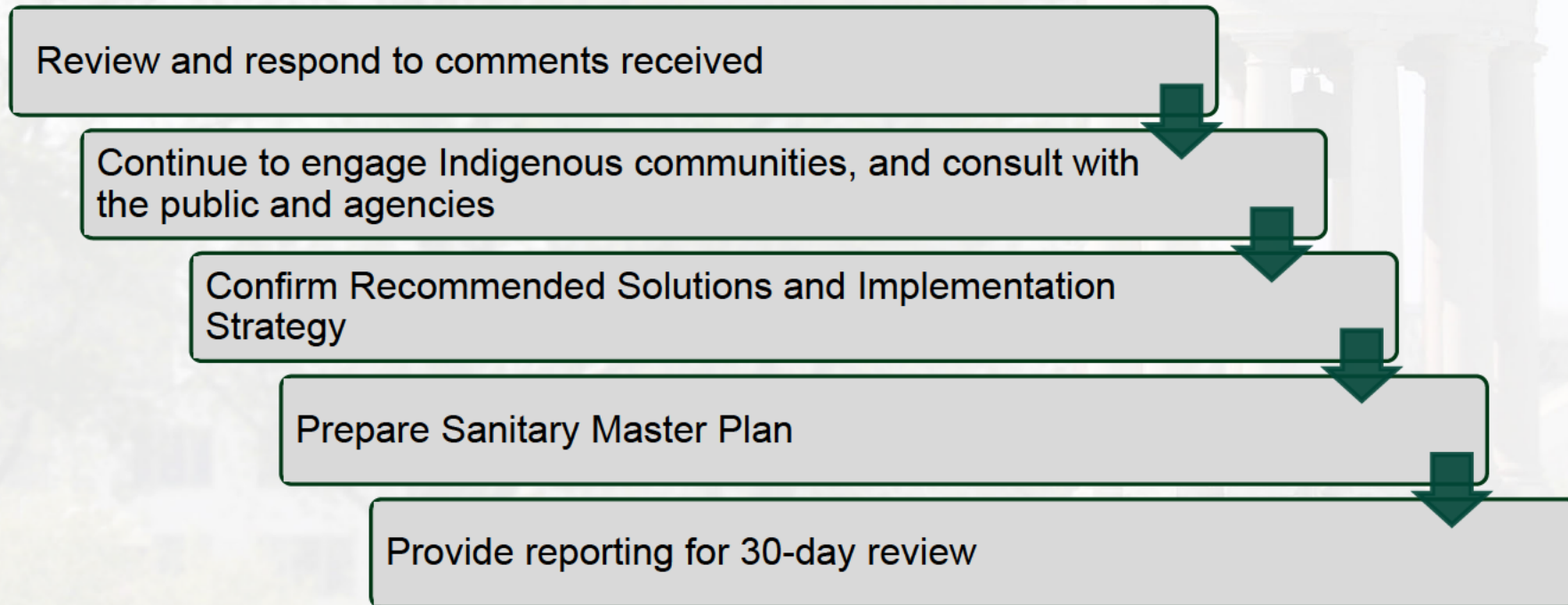
This strategy will assist the City in understanding where future improvements are required in the sanitary servicing network. The recommendations will help to shape community growth.

These solutions are exempt from further EA study.

Next Steps



Following this PIC, the project team will complete the next steps identified below:



The findings of this study will be documented in a Sanitary Master Plan. The Master Plan will be made available on the City of Kitchener's Engage Platform for a 30-day public review period, tentatively scheduled for spring 2024.

Thank you for participating!



Thank you for participating in the City of Kitchener's Online Public Information Centre. Your feedback is valuable and appreciated.

Please provide comments by participating in the Engage Forum by December 20, 2023, or by contacting a member of the project team by January 7, 2024:



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Email: Jeff.Paul@stantec.com

Project Website: www.engagewr.ca/sanitarymasterplan

All information is collected in accordance with the Freedom of Information and Privacy Act.



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- Updating of the computer model of the sanitary system to replicate real world flows and data.
- Running the computer model through various scenarios to simulate future conditions (10 years and 30 years into the future) and rainfall events.

Do you have any questions about the work undertaken?

Slide 7 – What did we find out?

On completion of review of the City's sanitary system, the following are key findings of the study:

- The sanitary system has capacity for growth. Upgrades to the system to accommodate growth are minimal.
- Some repairs and improvements to the sanitary system are required.
- Information on the state of the existing sanitary sewers is limited. Gaps exist, specifically information on trunk sewers, which limits our understanding of the condition of the existing system.
- Surface water infiltration into the sanitary system is an issue and should be reduced.
- Climate change increases the risk of extreme rainfall. The sanitary system may require additional upgrades to handle the increased rainfall in future.
- Hydrogen sulfide has been an issue in the City. It forms in sewage that has been in the system for too long and is corrosive to concrete. The presence of hydrogen sulfide should be monitored in the system.

The findings were used to develop the alternative solutions. The alternatives are presented on the next slide.

Slide 8 – What are our Alternative Solutions?

As mentioned, alternative solutions were developed for the study. These alternatives were developed to determine the preferred strategy, and include:

- Alternative 1 - Do Nothing
 - This maintains the status quo. It involves no changes to the existing system.
 - This alternative is not feasible for the City to carry forward for further consideration.
- Alternative 2 – Shape Community Growth



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- Continue to support community growth and understand sanitary servicing needs.
- This alternative is carried forward as part of the City's overall strategy.
- Alternative 3 – Infrastructure Updates
 - Construction work required to provide more capacity.
 - This alternative is carried forward as part of the City's overall strategy.
- Alternative 4 – Data Acquisition, Flow Monitoring, and Inflow & Infiltration
 - Implement programs that reduce water inflow and infiltration into the system. Through these programs we will collect data about the existing system and improve data accuracy. This will inform the City of future project needs.
 - This alternative is carried forward as part of the City's overall strategy.

The alternatives carried forward are explained on subsequent slides. In addition, the Master Plan report will provide more detailed information about the evaluation of alternative solutions.

Do you have any questions about the alternative solutions?

Slide 9 – Alternative Solutions Not Carried Forward

Alternative 1 - Do Nothing was not feasible for the City to carry forward for further consideration for reasons listed below:

- Does not support future growth within the City of Kitchener.
- Does not upgrade aging infrastructure, increasing the possibility of infrastructure failure.
- Failing infrastructure poses risks to the environment, and public health (i.e., contamination).
- Failing infrastructure has the potential to impact private property (i.e., flooding).

Slide 10 – Shape Community Growth

The existing sanitary sewer system in the City of Kitchener is able to accommodate anticipated growth for the next 30 years with some recommended improvements to the sanitary system that are identified under Alternative 3.

This alternative is recommended to ensure the City continues to monitor growth and ensure it is consistent with current expectations. Specific actions include:

- Continue to monitor growth to ensure consistency with anticipated growth



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- Undertake updates to the sewer model when significant growth projection deviations occur.
- Where current growth projection deviations are noted, identify any required sewer upgrades.

Concerns regarding trunk sewers, pumping stations and growth over the 30-year forecast will be partially addressed through this alternative and partially addressed through further data collection.

This alternative is carried forward.

Slide 11 – Upgrades to Existing Infrastructure (Alternative 3)

This alternative includes upgrades to existing infrastructure to increase flow capacity. The upgrades will apply to the existing sanitary sewers, pumping stations and forcemains. These projects include:

A. Capacity-based projects

- These projects **increase the capacity** in the system. These replacements improve flows in the system and meet the needs of projected growth.

B. Condition-based projects

- Upgrades to **improve sewers and pumping stations that are in poor condition**. The exact scope of work will require further investigation. The work may include repair, rehabilitation, or replacement.

Due to the nature of these projects, they are exempt from further EA study.

Slide 12 – Upgrades to Existing Infrastructure (Alternative 3) -Sanitary Sewer Capacity-based Solutions

Projects which are required to increase capacity in the sanitary system are:

Several sewer projects are required in the next **5 years**. These projects will accommodate existing and higher flows in the sanitary system:

- **King Street** – sewer pipe replacement
- **Dalewood Drive** – sewer pipe replacement
- **Homer Watson Boulevard** – sewer pipe replacement
- **Sandrock Trunk** – sewer pipe replacement
- **Shirley Sanitary Pumping Station** – install additional pumps



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The following projects are required in the **10 year** horizon. These projects will accommodate future flow in the sanitary system:

- **New Dundee Sanitary Pumping Station** – install additional pumps
- **Manchester Road** – sewer pipe replacement
- **Robert Ferrie Drive** – sewer pipe replacement

An interactive map is provided on the City's website. The map provides more details about specific projects related to this study.

Slide 13 – Upgrades to Existing Infrastructure (Alternative 3) - Sanitary Sewer Condition-based Solutions

Projects which are required to improve the condition of the sanitary system are listed on this slide.

Upgrades will improve sewers in poor condition and are required in the next 5 years. The exact work to be completed will require further investigation and could range from:

- Replacement of the sewer by excavating and replacing the pipes.
- Rehabilitating the sewer by placing a lining inside the existing sewer.
- Repairing damaged sections and leaving the remaining sewer intact.

Sanitary pumping station improvements are also required. This work is generally considered ongoing maintenance. As these facilities age, components of the facilities require replacement and maintenance.

A list of projects under this category is provided on the next slide.

Slide 14 – Upgrades to Existing Infrastructure (Alternative 3) - Condition-based Solutions - Sewer Pipe

Sewer improvements are required in the areas listed on this slide. As mentioned, an interactive map is available on the City's website. The map will provide more information on the project limits for these improvements.

Please note that areas with a (2*) beside them have two projects within that area.

Slide 15 – Upgrades to Existing Infrastructure (Alternative 3) - Condition-based Solutions – Sanitary Pumping Stations

Sanitary pumping station (SPS) improvements are required for the sanitary pumping stations listed on this slide.



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Upgrades also include work to ensure the City of Kitchener's pumping stations are compliant with the National Fire Protection Association requirements.

Slide 16 – Example of Construction Project - Sewer Rehabilitation - Victoria Street

This slide presents an example of a sewer rehabilitation construction project.

The purpose of this slide is to provide a general idea of what construction impacts may occur. It should be noted that these impacts are temporary in nature, and will be reduced to the extent possible.

Prior to any construction work being undertaken, nearby properties will be notified of the upcoming work. Properties will remain updated throughout the construction process.

Slide 17 – Project Nearby Natural Areas

Some projects listed on slides 12, 14 and 15 are adjacent to, or within natural heritage areas and City park spaces.

Potential impacts to natural heritage features and City's park spaces will be identified during detailed design, and mitigated to the extent possible.

Slide 18 – Data Acquisition, Flow Monitoring, and Inflow & Infiltration Mitigation Programs (Alternative 4)

This solution refers to a broad collection of programs. The goal of the programs are to reduce flows in the sanitary sewer system and improve the City's understanding of the state of the system. This will allow the City to better assess the condition of the system. Programs include:

- Rainfall & Flow Monitoring Program
 - This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to better target system improvements with this information.
- Computer Model Updates & Maintenance
 - This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making.
- Sanitary Trunk Sewer & Forcemain Investigation Program



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- This program enhances the City's existing program which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10 year frequency to assess any issues in a timely manner.

Slide 19 – Data Acquisition, Flow Monitoring, and Inflow & Infiltration Mitigation Programs (Alternative 4) Continued

Data collection will allow the City to better assess inflow and infiltration into the sanitary system. This alternative recommends programs to remove sources of strain on the system caused by:

- The inflow of excess water into sewer pipes. Inflow water comes from yards, roofs, drains, downspouts, and manhole covers.
- The infiltration of excess water from the groundwater system. The water then enters the sewers. Infiltration occurs following large storm events that can trigger a rise in groundwater levels.

The following programs will be implemented:

- Inflow and Infiltration Reduction Program
 - This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows.
- Hydrogen Sulfide Monitoring and Dosing Program
 - This involves the monitoring of hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels

Additional innovation programs may be considered in the Master Plan report.

Slide 20 – Summary of Recommendations

The following solutions are recommended for this Master Plan:

- **Monitoring Growth**
- **Capital Upgrades**
 - Capacity-based solutions
 - Condition-based solutions
- **Data Acquisition & Flow Monitoring**



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- Rainfall and Flow Monitoring Program
- Sanitary Hydraulic Model Updates & Maintenance
- Sanitary Sewer & Forcemain Investigation Program
- Inflow and Infiltration Program
- Hydrogen Sulfide Monitoring and Dosing Program

Opportunities for innovation within the system (i.e., wastewater heat recovery, decentralized systems) will be explored by the City under separate, future study.

This strategy will assist the City in understanding where future improvements are required in the sanitary servicing network. The recommendations will help to shape community growth.

These solutions are exempt from further EA study.

Please comment on the recommended strategy.

Slide 21 – Next Steps

Following this PIC, the Project Team will complete the next steps below:

- Review and respond to comments received
- Continue to engage Indigenous Communities, and consult with the public and agencies
- Confirm Recommended Solutions and Implementation Strategy
- Prepare Sanitary Master Plan
- Provide reporting for 30-day review period.

The findings of this study will be documented in a Sanitary Master Plan. The Master Plan will be made available on the City of Kitchener's Engage Platform for a 30-day public review period, tentatively scheduled for spring 2024.

Slide 22 – Thank you!

Thank you for participating in the Virtual Public Information Centre for the City of Kitchener's Class Environmental Assessment for the Integrated Sanitary Servicing Master Plan. Your feedback is valuable and appreciated.

Please provide comments by filling out the comment form or by contacting a member of the project team below by January 7, 2024

For additional information and to stay up to date on the study progress, please refer to the project website: <https://www.engagewr.ca/sanitarymasterplan>



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Thank you again for your interest in the study!



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Slide 1 – Title Slide

Hello and thank you for joining us for this Virtual Public Information Centre (or PIC) number 2. This presentation is for the City of Kitchener Integrated Sanitary Master Plan Municipal Class Environmental Assessment

Slide 2 – Welcome!

The goals of this Public Information Centre #2 are:

- Provide an overview of the study progress to date
- Present the preferred strategy and next steps
- Answer questions and provide an opportunity to get involved in the project

We encourage you to get involved in this study. Comments received will help to confirm the strategy for current and future sanitary sewer needs in the City of Kitchener.

Slide 3 – Project Summary

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The Plan is examining the City's sanitary sewer system needs by looking at:

- New planning policies
- Growth projections and needs for new development
- Current needs and issues that exist in the community

The Master Plan will identify deficiencies in the sanitary sewer system. The Plan will develop and evaluate alternative solutions and make recommendations to address these deficiencies while considering planned growth across the City.

We welcome you to provide feedback by filling out a comment form or by contacting a member of the project team. Contact information will be provided at the end of this presentation.

Slide 4 – Municipal Class EA Process

The Municipal Class Environmental Assessment (EA) is a process that allows for the planning and implementation of municipal infrastructure (sewers, watermains, roads, etc.). The process is legislated by the Ontario Environmental Assessment Act. The process can be used for planning individual projects or to address groups of projects, through a Master Plan. Master Plans are long range plans which look at existing and future needs. This Master Plan will meet the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process. For most projects,



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this study work will allow projects to proceed to design and construction. For more complex projects with greater impacts, further study is required.

The process includes the following:

- Review background planning and policy documents
- Identify the problem or opportunity;
- Develop and evaluate alternative solutions; and,
- Identify and present the preferred solution. Identify impacts and mitigation measures.

We are currently in Phase 2 of the study. Following the completion of Phase 2, a Project File Report will be prepared to summarize the decision-making process for the public and stakeholders. A 30-day review period will be provided for the public and stakeholders to review and comment on the report.

Slide 5 – Problem & Opportunity

At the start of the Class EA process, a problem and opportunity statement is developed to help guide the work. The following statement was developed for this study:

The City of Kitchener has significant sanitary sewer infrastructure which needs to be managed to ensure it is resilient and sustainable for future generations. The growing population in the City, as identified in the Official Plan, will lead to an increase in the production of wastewater, causing additional strain on aging infrastructure and may require new infrastructure.

This sanitary servicing review will assess the current state of the City's sanitary sewers and pumping stations. Where issues are identified, the City will identify preferred solutions that will continue to service existing homes and businesses as well as provide the ability to service identified growth areas. The City is committed to providing a reliable and sustainable sanitary servicing system.

Slide 6 – How did we do this Study?

The following work was undertaken as part of this study:

- Extensive review of previous studies.
- Review of previous information on the state of repair of the existing sewer system.
- Collection of rainfall data and flow data from the sewer system.
- Collection of data from the City's sanitary pumping stations.

ENGAGE

KITCHENER



cityofkitchener



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Kitchener is planning future sanitary works and we're looking for your feedback on proposed alternative solutions and recommendations. Provide feedback by Dec. 20 by clicking 'learn more'.

No comments yet.

Start the conversation.

[View insights](#)



9 likes

December 6, 2023



Add a comment...





City of Kitchener

Published by [Hillary Molinaro](#) · December 6, 2023



Kitchener is planning future sanitary works and we're looking for your feedback on proposed alternative solutions and recommendations. Provide feedback by Dec. 20 by clicking 'learn more'.



[ENGAGEWR.CA/SANITARYMASTERPLAN](https://engagewr.ca/sanitarymasterplan)

Feedback wanted on future sanitary works!

See website for details



Learn more

To: City of Kitchener Jean Hao, P.Eng., PMP Design & Construction Project Manager Utility Planning and Programs Sanitary and Stormwater Utilities City of Kitchener 519-741-2200 ext. 4156 Jean.Hao@kitchener.ca	From: Stantec Consulting Ltd. Prepared by: Sarah Micks Environmental Planner Stantec Consulting Ltd. Sarah.Micks@stantec.com Reviewed by: Jeff Paul, P.Eng. Project Manager Jeff.Paul@stantec.com
File: 165640334	Date: March 12, 2024

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #2 Summary of Comments Received

This memo summarizes Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Master Plan Municipal Class Environmental Assessment (EA). The memo highlights the distribution of the Notice of PIC #2, and identifies comments received. The virtual PIC was hosted on the City's Engage website from December 6, 2023 to January 7, 2024.

Highlights

The virtual Public Information Centre (PIC) #2 for the Integrated Sanitary Master Plan was hosted on the City's Engage website from December 6, 2023 to January 7, 2024. The Notice was distributed in different ways: newspaper, email, website, etc. A pre-recorded presentation, the presentation, and the transcript were made available for public review and feedback. We received 770 visitors to the webpage, comments received, and responses provided. We received five comments by email and through the Engage platform. Key themes raised through the comments included:

- The virtual PIC format and timing
- The quantity of inflow and infiltration flows into the sanitary system
- Inflow and infiltration data and monitoring
- Demand management for reducing sanitary sewer flows
- Potential conversion of existing septic systems to municipal sanitary services

During the PIC, the Grand River Conservation Authority reviewed the documents and provided comments.

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #2 Summary of Comments Received

Notice Distribution

The City of Kitchener arranged for the Notice of PIC #2 to be published in the Kitchener Record on December 6 and December 13, 2023. The Notice was emailed to the project contact list on December 6, 2023, by Stantec. The contact list included First Nations and Indigenous communities, residential and agency contacts.

The City of Kitchener provided a copy of the Notice and PIC presentation on the project website on December 6, 2023 ([Integrated Sanitary Master Plan | EngageWR](#)). All subscribers to the project website received a notification that the PIC was available for review on the website.

Considering the Holiday season, the City extended the Forum Tool until January 7th, 2024 to allow for comments from interested persons. Between December 6 to January 7th, people were invited to respond to the PIC materials in the Forum, and provide comments in the Questions tool, or email comments directly to the project team. More information about how comments were received is provided in this memo.

Format and Displays

PIC #2 was held using a virtual format. A pre-recorded presentation was made available online for public review and input on the study process, problems being addressed, and background information. A copy of the presentation and transcript were also made available online for download and were available to be mailed out upon request. The video presentation was made available on the project website:

<https://www.youtube.com/watch?v=o243iWGGdp8>

An interactive map displaying the proposed project locations was made available through the Engage Platform, at the following link:

<https://experience.arcgis.com/experience/f7b2dcd23a9c4a589e563ce24419038a>

This map allowed for interested persons to view the location, and proposed project horizon and type of the recommended projects. The map displayed short, medium and long term condition-based projects, and short, medium and long term capacity-based solutions. The map displayed the various sewer improvement projects, and the existing sanitary pumping stations throughout the City.

Project Website Statistics

The Notice of Virtual PIC #2 posting received 770 visitors to the webpage. A total of 26 visitors downloaded the PIC #2 presentation slides, and 5 visitors downloaded the presentation transcript. There were 5 contributors that participated in the Forum Topic discussions.

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #2 Summary of Comments Received

The majority of the visitors were referred to the project website through social media advertisements, posted by the City of Kitchener. Additional referrals came from search engines, emails received, direct URL searches, Google, Instagram, kitchener.ca, bing.com, and The Record.

A copy of the Engage summary report is provided in **Appendix A**.

Comments Received

Online Forum Tool – An online Forum was developed on the project website to facilitate conversation in relation to the PIC. To solicit comments, the following three questions were added to the Forum Tool for participants to answer in the forum discussion:

1. Do you have any questions about the work undertaken to prepare the alternative and recommended solutions?
2. Do you have any questions about the alternative solutions?
3. Please comment on the recommended strategy, which is to carry forward these alternative solutions:
 - Shape community growth
 - Infrastructure updates
 - Data acquisition, flow monitoring, and inflow and infiltration mitigation programs

The project team did not receive responses directly to the questions asked.

Five comments were received through the Forum and the following themes were identified: potential conversion of existing septic systems to municipal sanitary services, timing of the PIC, inflow and infiltration, and using Demand Management to reduce water consumption to lessen sanitary sewer flows.

There was one comment related to the potential for converting septic systems to municipal sanitary services. The City responded that this is outside the scope of this study. The City will consider new sanitary services on a case-by-case basis while planning road reconstructions. Any works needed to convert a private septic system to municipal sanitary services is the property owner's responsibility. The City does not pay for work on private property.

One comment was received regarding the timing of the PIC in December and the virtual format. The response noted that asynchronous virtual PICs make it easier for participants to provide input over a flexible time period, rather than a single 2-3 hour in-person meeting. It was also noted that due to the high-level planning nature of Master Plans, the City has

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #2 Summary of Comments Received

historically received lower levels of engagement on these types of projects. The City noted that engagement with residents in the vicinity of the proposed work will be completed prior to construction, and more information will become available through the design process. The PIC materials will also remain on the Engage Kitchener website, and comments from the public accepted throughout the duration of the study.

Two comments were received regarding the quantity of inflow and infiltration of water into the sanitary system. The response provided noted that as part of the recommended strategy and programs, the goal is to reduce inflow and infiltration flows into the sanitary system, as well as improve the City’s understanding of the systems state. Several programs are recommended which will overall help to understand how and where inflow and infiltration is entering the system, and allow the City to take appropriate actions to remedy the system.

One comment, along with a follow up comment were received suggesting that the City use Demand Management practices to reduce water consumption, to reduce the sanitary sewer flows. The response noted that the Region of Waterloo manages Kitchener’s water supply and demand, and that they are currently updating their Water Supply Strategy which will look at sustainable sources and water demands. More information on this is available on the Region’s website.

Online Forum Tool Formatting Issues

While responding to comments received through the Online Forum Tool, the project team experienced issues with properly formatting the responses on the Engage platform. To remedy the issue, the project team sought technical support from the external platform provider to address the formatting limitations of the Forum Tool. The platform provider was unable to address the limitations within the tool, but was made aware of the concerns and issues surrounding the impact of the limitations. The Forum Tool was closed for comments on January 7, 2024. Following the January 7th closure, the project team reposted all of the comments and responses with proper formatting through Engage updates. **Appendix B** provides the Forum Tool comments and responses.

Online Question Tool – An online Question Tool was included to facilitate conversation throughout the study. No comments were received during the duration of PIC #2.

Other Comments – Two emails were received directly by the project team during the duration of PIC #2, as summarized below.

Comment Theme	City Response / Acknowledgement
Water Demand Management to reduce water consumption	The response noted that the Region of Waterloo manages Kitchener’s water supply and demand, and that

Reference: City of Kitchener Integrated Sanitary Master Plan, Public Information Centre #2 Summary of Comments Received

<p>and relieve the sanitary sewer flows.</p>	<p>they are currently updating their Water Supply Strategy which will look at sustainable sources and water demands. More information on this is available on the Region's website.</p>
<p>Grand River Conservation Authority (GRCA) Permitting Requirements</p>	<p>A number of projects fall within the GRCA regulated area. GRCA identified potential improvements which may require a permit prior to construction. Project have potential to introduce sedimented runoff or dewatering erosion, therefore mitigation measures should be considered during detail design. GRCA will be consulted during Detail Design to confirm project details.</p>

Appendix A

Summary Report

06 December 2023 - 07 January 2024

EngageWR

PROJECTS SELECTED: 1

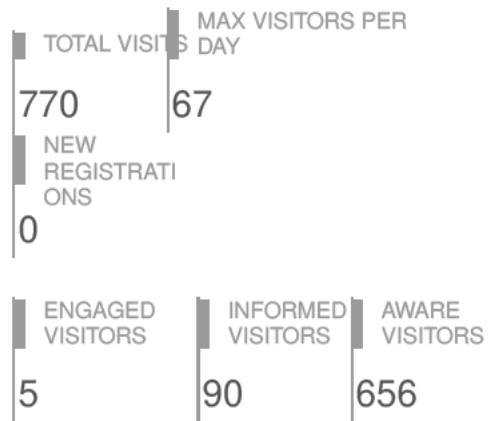
Integrated Sanitary Master Plan

FULL LIST AT THE END OF THE REPORT

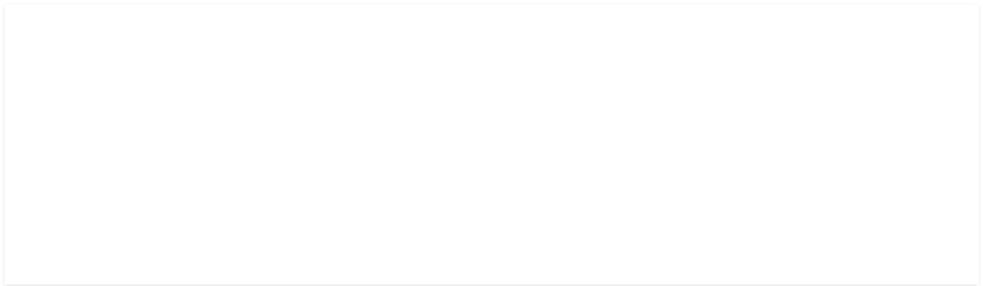
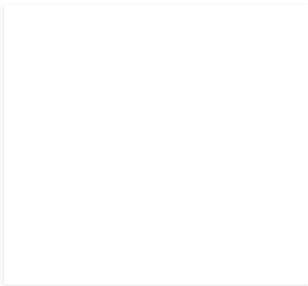
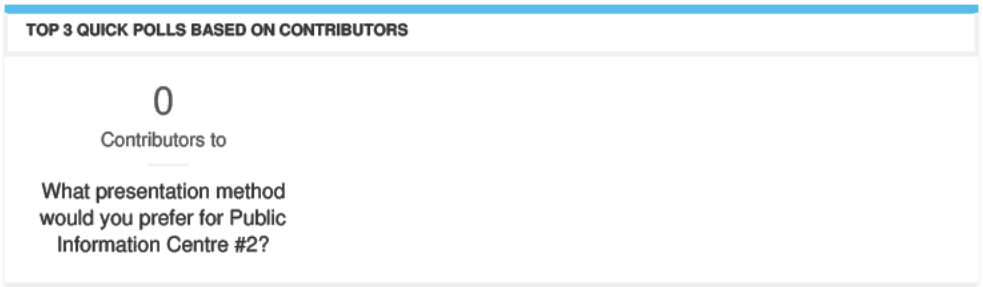
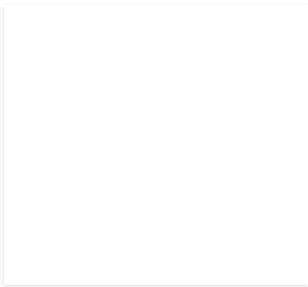
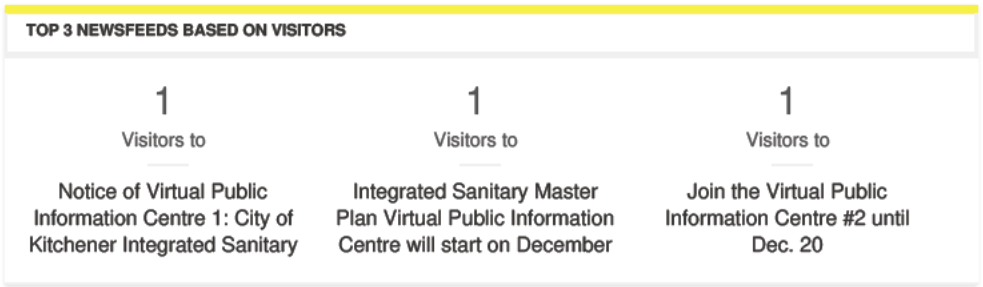
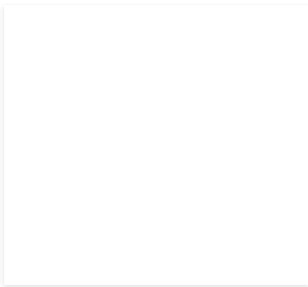
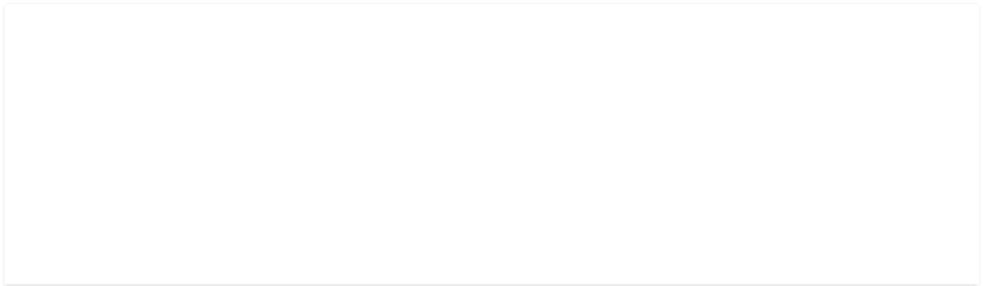
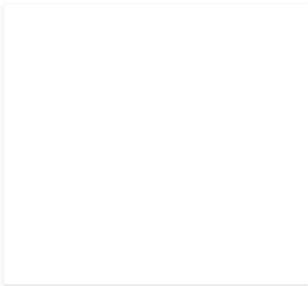
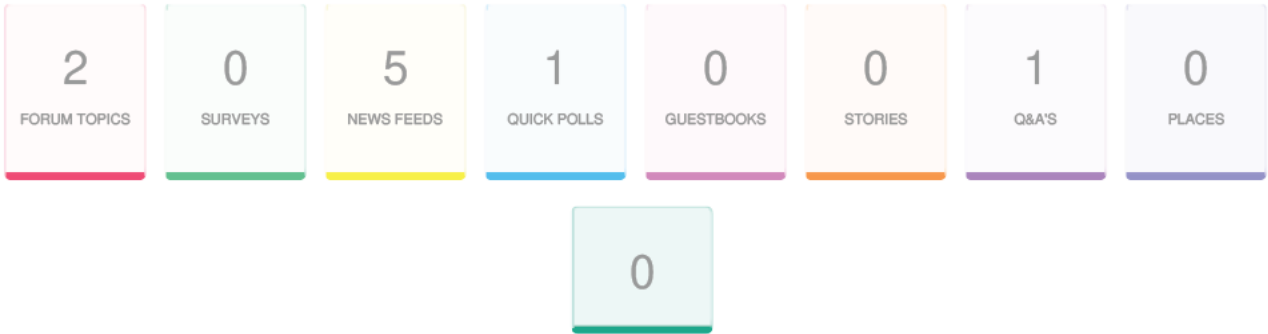


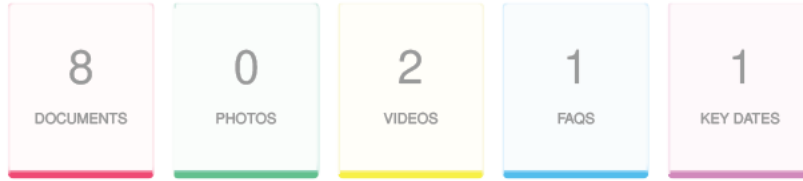
Visitors Summary

Highlights



<p>ENGAGED</p>	<p>5 ENGAGED PARTICIPANTS</p> <table border="1"> <thead> <tr> <th></th> <th>Registered</th> <th>Unverified</th> <th>Anonymous</th> </tr> </thead> <tbody> <tr> <td>Contributed on Forums</td> <td>5</td> <td>0</td> <td>0</td> </tr> <tr> <td>Participated in Surveys</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Contributed to Newsfeeds</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Participated in Quick Polls</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Posted on Guestbooks</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Contributed to Stories</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Asked Questions</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Placed Pins on Places</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Contributed to Ideas</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p><i>* A single engaged participant can perform multiple actions</i></p>		Registered	Unverified	Anonymous	Contributed on Forums	5	0	0	Participated in Surveys	0	0	0	Contributed to Newsfeeds	0	0	0	Participated in Quick Polls	0	0	0	Posted on Guestbooks	0	0	0	Contributed to Stories	0	0	0	Asked Questions	0	0	0	Placed Pins on Places	0	0	0	Contributed to Ideas	0	0	0	<p style="text-align: right;">(%)</p> <p>Integrated Sanitary Master P. 5 (0.8%)</p> <p><i>* Calculated as a percentage of total visits to the Project</i></p>
	Registered	Unverified	Anonymous																																							
Contributed on Forums	5	0	0																																							
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Contributed to Newsfeeds	0	0	0																																							
Participated in Quick Polls	0	0	0																																							
Posted on Guestbooks	0	0	0																																							
Contributed to Stories	0	0	0																																							
Asked Questions	0	0	0																																							
Placed Pins on Places	0	0	0																																							
Contributed to Ideas	0	0	0																																							
<p>INFORMED</p> <p>AWARE</p>	<p>90 INFORMED PARTICIPANTS</p> <table border="1"> <thead> <tr> <th></th> <th>Participants</th> </tr> </thead> <tbody> <tr> <td>Viewed a video</td> <td>4</td> </tr> <tr> <td>Viewed a photo</td> <td>0</td> </tr> <tr> <td>Downloaded a document</td> <td>48</td> </tr> <tr> <td>Visited the Key Dates page</td> <td>0</td> </tr> <tr> <td>Visited an FAQ list Page</td> <td>13</td> </tr> <tr> <td>Visited Instagram Page</td> <td>0</td> </tr> <tr> <td>Visited Multiple Project Pages</td> <td>77</td> </tr> <tr> <td>Contributed to a tool (engaged)</td> <td>5</td> </tr> </tbody> </table> <p><i>* A single informed participant can perform multiple actions</i></p>		Participants	Viewed a video	4	Viewed a photo	0	Downloaded a document	48	Visited the Key Dates page	0	Visited an FAQ list Page	13	Visited Instagram Page	0	Visited Multiple Project Pages	77	Contributed to a tool (engaged)	5																							
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<p>ENGAGED</p> <p>INFORMED</p> <p>AWARE</p>	<p>656 AWARE PARTICIPANTS</p> <table border="1"> <thead> <tr> <th></th> <th>Participants</th> </tr> </thead> <tbody> <tr> <td>Visited at least one Page</td> <td>656</td> </tr> </tbody> </table> <p><i>* Aware user could have also performed an Informed or Engaged Action</i></p>		Participants	Visited at least one Page	656	<p>Integrated Sanitary Master P. 656</p> <p><i>* Total list of unique visitors to the project</i></p>																																				
	Participants																																									
Visited at least one Page	656																																									





TOP 3 DOCUMENTS BASED ON DOWNLOADS		
26 Downloads Virtual Public Information Centre #2 - Presentation	17 Downloads Public Information Centre Report #1	17 Downloads Virtual Public Information Centre #2 - Notice

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REFERRER URL	Visits
m.facebook.com	340
l.facebook.com	118
lm.facebook.com	47
www.google.com	25
instagram.com	21
t.co	20
www.kitchener.ca	3
bing.com	2
www.bing.com	2
duckduckgo.com	1
www.facebook.com	1
www.google.ca	1

SELECTED PROJECTS - FULL LIST

PROJECT TITLE	AWARE	INFORMED	ENGAGED
Integrated Sanitary Master Plan	656	90	5

Appendix B

Question	Response
<p>Hello, I'm still unsure whether areas of the city still on septic systems will be provided with sanitary services to connect to. Is this something under consideration?</p>	<p>Thank you for your comment. The Integrated Sanitary Master Plan does not include new sanitary sewers for areas currently serviced by septic systems. This is outside the scope of this study.</p> <p>We consider new sanitary services on a case-by-case basis while planning road reconstructions. As the City of Kitchener expands the sewer system, the costs to provide new services are taken into consideration. Please note that the City does not pay for work on private property. New services are built within the municipal right-of-way only. Any work needed to convert a private septic system to connect with a municipal sanitary service is the property owner's responsibility.</p> <p>Please let me know if you have any questions.</p>
<p>I only see a single comment here. That tells me that you have not achieved public consultation. Obviously, the timing of this PIC is not great - we generally avoid December.</p>	<p>Thank you for your interest and participation in this study.</p> <p>The City used a virtual format for both PICs through the City's Engage Kitchener platform. The Integrated Sanitary Master Plan is a City-wide study and of technical nature. Asynchronous virtual PICs makes it easier for participants to give input and share ideas over a much more flexible period. Participants have weeks to share feedback, rather than a single 2-3 hour in-person meeting. The format also offers the opportunity to engage from home or a nearby internet access point such as a community centre or library. It avoids travelling in potentially challenging weather conditions this time of year. Due to the high-level planning nature of Master Plans, they have historically received lower levels of engagement. Outcomes are less tangible than a capital project such as a new community centre or public park space planning.</p> <p>This master plan is not identifying new infrastructure to be built where none currently exists. Where existing infrastructure will undergo renewal or replacement, the City will engage with residents in the vicinity of the proposed work. This engagement will take place as more details become available through the design process. Receiving feedback on the sanitary master plan is important to us. The commenting period for this public information centre remains open until January 7th. The materials will remain available on the Engage Kitchener website.</p> <p>We will continue to accept comments from the public for the duration of the study. Thank you once again for your engagement. We look forward to hearing your feedback.</p>

Question	Response
<p>Comments on City of Kitchener Master Plan PIC #2, December 2023. Barbara Robinson, resident, President of Norton Engineering Inc. The problem statement should not only include “management of sanitary infrastructure”, but management of sewage itself, e.g. leaking sewers, or Inflow and Infiltration. And not just the sewers and pumping stations, but the sewage itself. Please provide actual I/I numbers for Kitchener WWTP. Recall that this is calculated as total influent at WWTP minus sum of all billed water, with the sewer/watersheds rationalized to match. I calculated this once for the City and I/I was about 40%. Residents pay for this I/I on each and every monthly bill. It is preposterous not to invest in reducing it, in this era of residents really struggling to keep up with the costs of living. Developing a model will predict future flows (and will be out of date in 5 years unless it is regularly updated and re-calibrated – which is rare). It will do nothing to address existing I/I, of which the sewers are full (since there is no I/I program in Kitchener at all). A model cannot be considered a means of identifying I/I – since models are rife with errors. See Norton’s research online or on LinkedIn. Please note that flow monitoring of very large sewersheds does not lead to being able to pinpoint I/I – it is too specific to neighbourhoods (age of homes, construction materials, soils, groundwater levels, quality of installation and inspection, etc.). Surface water infiltration is the least of the problems. Groundwater infiltration and inflow are. The City has no roof leader disconnection program. It is illegal, today, per your sewer use by-law, for residents to discharge rain water or groundwater to the sanitary sewer. The City is actually themselves reconnecting cellar drains (groundwater) to the sanitary sewer during reconstructions (example, Earl St.), which is in contravention of its own by-law. Each and every connected roof leader in Kitchener costs all residents \$2,000 (avg rainfall x sewage charge), each and every year, and increases risk of flooding for all. See “the sewer lady” on TVO’s the Agenda with Steve Paikin (July 2023): https://www.tvo.org/video/the-sewer-lady-on-how-to-avoid-flooding. Since roof leaders are illegal connections, it is baffling that the City has not addressed this already. The sewer rate increase is 7.1% again in the 2024 budget – how can we keep charging residents more while doing nothing to reduce the costs of the</p>	<p>Thank you for your comments on inflow and infiltration (I/I). Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs. The goal of the programs is to reduce flows in the sanitary sewer system and improve the City’s understanding of the system’s state. This will allow the City to better assess the system’s condition and performance.</p> <p>Programs include:</p> <ul style="list-style-type: none"> • Rainfall & Flow Monitoring Program <ul style="list-style-type: none"> ○ This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information. • Computer Model Updates & Maintenance <ul style="list-style-type: none"> ○ This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making. • Sanitary Trunk Sewer & Forcemain Investigation Program <ul style="list-style-type: none"> ○ This program enhances the City’s existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner. <p>Data collection will allow the City to better assess inflow and infiltration into the sanitary system. This alternative recommends programs to remove sources of strain on the system caused by:</p> <ul style="list-style-type: none"> • The inflow of excess water into sewer pipes. Inflow water comes from yards, roofs, drains, downspouts, and manhole covers. • The infiltration of excess water from the groundwater system. The water then enters the sewers. Infiltration occurs following large storm events that can trigger a rise in groundwater levels. <p>The following programs will be implemented based on available data as it becomes available:</p> <ul style="list-style-type: none"> • Inflow and Infiltration Reduction Program

Question	Response
<p>operation of the system? I/I becomes sewage as soon as it enters the sewers. There is no magical “I/I separator” at the headworks of the plant. I/I is the proximate cause of flooding – and reducing it will provide protection from peakier storms. When there is flooding, or when we need to expand the WWTP, we do not say, well, I/I is a big culprit here, but we don’t need to pay for it because it’s I/I. The cost of I/I is the cost of sewage, e.g. \$3.27/m3. The preferred solutions don’t address these essential issues in the sewer system. The environmental impacts of the flushing of deleterious materials into the sewer, the costs, and the increased risk to residents of basement backup, means this issue needs to be addressed. See https://kitchener.ctvnews.ca/plumbing-problem-kitchener-ont-engineer-pushing-to-change-canada-s-plumbing-code-1.6480544, July 2023. New subdivisions have been demonstrated to be leaking, often badly, across Ontario. Norton’s efficient and cost-effective solution of flow monitoring all new subdivisions to ensure conformance with allowable leakage stated in OPS standards has been adopted by municipalities across Ontario. Failure to adopt this forces existing residents to pay for I/I left by developers, in perpetuity. It is the municipality’s responsibility to protect residents from this unacceptable condition. See The Agenda with Steve Paikin in 2019: https://www.tvO.org/video/ontarios-leaky-sewer-problem Have you referenced the two new National Sewer Guidelines published by Standards Council of Canada? “Reducing the Risk of I/I in New Sewer Construction”, Robinson, Sandink and Engineers Canada, for Standards Council of Canada, 2019, Seed Document. Developed into a final Standard by BNQ, and “Mitigation of the Risks of Inflow and Infiltration in New Sanitary Sewer Systems”, BNQ, 2022. And “Developing an Efficient and Cost-Effective I/I Program”, Robinson and Sandink for Standards Council of Canada, 2021. This seed document is currently being developed into a final standard by BNQ. This master plan reads like one written in the early 2000s – without reference to the modern approaches to I/I which have been developed since then. Please confirm that CAN/CSA Z800-18 was also consulted. It contains details on private side I/I and ways to reduce this risk. Where are the details of a public education campaign? Apart from a very recent FB post about what to flush, I have never seen or heard media on how residents</p>	<ul style="list-style-type: none"> ○ This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows. ● Hydrogen Sulfide Monitoring and Dosing Program <ul style="list-style-type: none"> ○ This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels. <p>It is worth noting that this is a significant body of new work to undertake. It is also a very important body of work with a high potential return on investment. The City looks forward to initiating these efforts upon completing the master plan.</p>

Question	Response
<p>can operate and maintain their private sewer from the City. This is no longer good enough – it is clear by now that residents across Ontario clearly do not understand how to use their sewer. Norton’s public education campaign of “Sewers are NOT Trash Cans” will efficiently and cost-effectively address this, if accompanied by media and in-person information sessions. See CBC Radio, https://www.cbc.ca/player/play/2683773960 eight years ago - this is not new information. See also CBC Radio in June 2023, https://www.cbc.ca/player/play/2241426499736. I do not believe that the City has adequately addressed many of the issues that are germane to planning for future growth and capacity in the sewers.</p>	
<p>Use of Demand Management in the design and operation of municipal sanitary-sewer systems has great potential to reduce present and future capital and operating costs. The importance of Demand Management has been recognized by the Region of York which has been using Demand Management to manage its Water and Wastewater Systems since 2011. The Region of York estimates that over the last 23 years the Region’s water conservation project has reduced water-supply consumption by 27 megalitres/day (equivalent to the daily water used by 135,000 people) and the Inflow and Infiltration Reduction Program has reduced sanitary-sewer flows by 22 megalitres/day (equivalent to wastewater flows from a population of 110,000) for an overall reduction of sanitary flows corresponding to a population increase of 245,000 people. The City of Kitchner can achieve similar benefits by making Demand Management a central policy emphasis in its current update of the Sanitary Master Plan. The City should follow the example set by the Region of York and establish a multiple decade reduction target for both water conservation and for I&I reduction with every five-year reporting progress being made to achieve the targets as set in the plan. Since in the Region of Waterloo Demand Management for water conservation is conducted by the Region of Waterloo and not the City of Kitchener the City of Kitchener Sanitary Master Plan will not contain water conservation policies. The Sanitary Master plan should, however, contain specific information on the Region’s water conservation targets and should emphasize the importance of achieving these targets as an essential support for achieving success</p>	<p>Thank you for your comments on Demand Management and inflow and infiltration (I/I). As per your comment, the Region of Waterloo manages Kitchener’s water supply and demand. The Region is updating their Water Supply Strategy, which will look at sustainable water supply sources and water demands. More information is available on the Region’s website. Reduction of I/I is an important part of the Sanitary Master Plan. Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs. The goal of the programs is to reduce flows in the sanitary sewer system and improve the City’s understanding of the system’s state. This will allow the City to better assess the system’s condition and performance and to promote continuous improvement of the sanitary sewer system.</p> <p>Programs include:</p> <ul style="list-style-type: none"> • Rainfall & Flow Monitoring Program • <ul style="list-style-type: none"> ○ This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information. • Computer Model Updates & Maintenance <ul style="list-style-type: none"> ○ This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making. • Sanitary Trunk Sewer & Forcemain Investigation Program

Question	Response
<p>for the Sanitary Master Plan. In order to identify feasible targets for I&I reduction the first step is to estimate the current level of I&I flows. The City of Cambridge has successfully documented reduced I&I flows using this approach. In Cambridge reductions in infiltration into under-river crossings and reduction of improper sealing of joints in locations with high groundwater levels were important in achieving reduced I&I. Reference website for York Region Inflow and Infiltration York Region website Inflow and Infiltration York Region</p>	<ul style="list-style-type: none"> ○ This program enhances the City’s existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner. ● Inflow and Infiltration Reduction Program <ul style="list-style-type: none"> ○ This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows. ● Hydrogen Sulfide Monitoring and Dosing Program <ul style="list-style-type: none"> ○ This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels <p>Data collection through these programs will allow the City to better assess items such as inflow and infiltration into the sanitary system. These plans align with and will continue to implement the best practices from other Municipalities such as the Region of York and the City of Cambridge.</p>
<p>Thanks for the fulsome answer. I suggest that in the Sanitary Master Plan the City of Kitchener set a specific date by which an initial report will be available specifying (1) the magnitude of existing I&I flows and (2) setting five year and twenty year targets for reduction in I&I flows.. As I noted York Region is already a decade into its twenty year I&I reduction program and is exceeding reduction targets. Similarly Cambridge has reported large reductions in its I&I flows from 32% in 2016 to 20% in 2020.as a result of their I&I reduction efforts.</p>	<p>Thank you for your suggestion. We appreciate your contributions to the virtual PIC. The City will consider your comments as the Master Plan report is prepared. We will set target reduction goals through the I/I program and provide updates when we have data available.</p>

PIC 2 Notification Materials & Comments Received

From: [Micks, Sarah](#)
Cc: [Jean Hao](#); [Paul, Jeff](#)
Bcc: fisheriesprotection@dfo-mpo.gc.ca; joan.delvillarcuicas@ontario.ca; eanotification.wcregion@ontario.ca; nancy.rutherford@ontario.ca; omafra.eanotices@ontario.ca; erick.boyd@ontario.ca; karina.cerniavskaja@ontario.ca; andrew.sturgess@ontario.ca; joseph.harvey@ontario.ca; karla.barboza@ontario.ca; Ashley.Johnson@ontario.ca; lise.chabot@ontario.ca; NoticeReview@infrastructureontario.ca; lisa.myslicki@infrastructureontario.ca; bbrown@grandriver.ca; theywood@grandriver.ca; cfosterpengelly@grandriver.ca; KHagerman@regionofwaterloo.ca; bcoady@regionofwaterloo.ca; marie-schroeder@wrhba.com; imclean@greaterkwchamber.com; water.institute@uwaterloo.ca; CanCustomerService@allstream.com; daniel.steffler@bell.ca; russ.mclean@enbridge.com; est.reg.crossing@enbridge.com; susan.sun@hydroone.com; secondarylanduse@hydroone.com; customerservice@kwhydro.ca; richard.bollinger@rci.rogers.com; Bob.quick@telus.com; kschimus@uniongas.com; rbigelow@uniongas.com; RWei@wnhydro.com; regionalclerk@regionofwaterloo.ca; transportation@regionofwaterloo.ca; cameron.rapp@waterloo.ca; olga.smith@waterloo.ca; questions@cambridge.ca; questions@cambridge.ca; jeff.molenhuis@wilmot.ca; dawn.mittelholtz@wilmot.ca; jpuppe@woolwich.ca; cmaquire@woolwich.ca; rmiller@woolwich.ca; rtucker@woolwich.ca; bryan.larkin@wrps.on.ca; cherri.greeno@wrps.on.ca; jriches@regionofwaterloo.ca; robert.gilmore@kitchener.ca
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2
Date: Wednesday, December 6, 2023 4:26:00 PM
Attachments: [not_kitchener_sanitaryMP_PIC2_AODA .pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

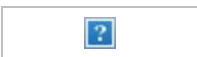
Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5



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From: [Micks, Sarah](#)
Cc: [Jean Hao](#); [Paul, Jeff](#)
Bcc:
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2
Date: Wednesday, December 6, 2023 4:27:00 PM
Attachments: [not_kitchener_sanitaryMP_PIC2_AODA .pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

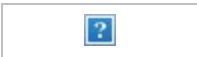
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From: [Jean Hao](#)
To:
Cc: [Paul, Jeff](#); [Nick Gollan](#); [Sarah Anderson](#); [Micks, Sarah](#)
Subject: RE: Demand Management Targets in Integrated Sanitary Master Plan
Date: Friday, December 15, 2023 11:18:28 AM

Hello Hugh,

Thank you for taking the time to provide your comments and the report.

Part of your question relates to managing Kitchener's water demand. This is outside of the scope of our study. Water demand is outside of the City of Kitchener's responsibility in our two-tier system of governance. The Region of Waterloo manages Kitchener's water supply and demand. The Region is updating their Water Supply Strategy, which will look at sustainable water supply sources and water demands. More information is available on the [Region's website](#).

With regard to reducing inflow and infiltration (I/I) in the sanitary sewer system, the Integrated Sanitary Master Plan recommends programs to put in place in the short term:

Infiltration and Inflow Reduction and Mitigation Programs

The City of Kitchener will develop and implement an I/I program to reduce I/I in the sanitary sewer system.

Rainfall and Flow Monitoring

We need data to pinpoint areas of high infiltration and inflow accurately. The City of Kitchener will collect rainfall data and monitor flows in the sanitary sewer system. This program supports the I/I Reduction and Mitigation Programs.

Sanitary Hydraulic Model Updates and Maintenance

Through this program, we will ensure the City's InfoWorks ICM Sanitary Hydraulic model is updated and can provide calibrated information on sewer flows. This program supports the I/I Reduction and Mitigation Programs.

Please let me know if you have further questions or comments about the I/I programs or the Integrated Sanitary Master Plan.

Thank you again for sharing the report, it's always a great idea to share the information.

Can you please let us know if it is OK to add your question to the [Engage Forum](#) [Embed hyperlink] (either anonymously or using your name) so that others can benefit from what you shared and can learn from our response?

Kind regards,

Jean Hao, P.Eng., PMP (She/Her)

Design & Construction Project Manager, Planning and Programs|Sanitary & Stormwater|City of Kitchener
Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Hugh R Whiteley

Sent: Wednesday, December 13, 2023 6:38 PM

To: Jean Hao <Jean.Hao@kitchener.ca>

Cc: Jeff.Paul@stantec.com

Subject: Demand Management Targets in Integrated Sanitary Master Plan

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Greetings:

Through my participation as a member of an advisory committee for the recently-completed Master Plan for Guellph's sanitary sewer system I became aware of the prominence given to Demand Management in sanitary-sewer-flow management in the Region of York.

I attach the report on successful application of Demand Management in the Region of York that was appended to their recently-issued Sanitary Sewer Master Plan. I am impressed by the progress York has already made in both per capita water conservation in the water supply system and in reductions of I&I in the sanitary sewer system return flows. I am even more impressed by their commitment to specific further reductions in both per capita supply and in further I&I reductions.

In the forthcoming Integrated Sanitary Master Plan for Kitchener will there be a similar emphasis on continuing reductions in per capita supply and in reduced I&I as a central focus for efficiency ?

Best regards

Hugh Whiteley

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Friday, December 22, 2023 4:30:18 PM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Thank you for your comments on Demand Management and inflow and infiltration (I/I). As per your comment, the Region of Waterloo manages Kitchener's water supply and demand. The Region is updating their Water Supply Strategy, which will look at sustainable water supply sources and water demands. More information is available on the Region's website. Reduction of I/I is an important part of the Sanitary Master Plan. Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs. The goal of the programs is to reduce flows in the sanitary sewer system and improve the City's understanding of the system's state. This will allow the City to better assess the system's condition and performance and to promote continuous improvement of the sanitary sewer system. Programs include:

- Rainfall & Flow Monitoring Program • This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information.
- Computer Model Updates & Maintenance • This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making.
- Sanitary Trunk Sewer & Forcemain Investigation Program • This program enhances the City's existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner.
- Inflow and Infiltration Reduction Program • This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows.
- Hydrogen Sulfide Monitoring and Dosing Program • This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels. Data collection through these programs will allow the City to better assess items such as inflow and infiltration into the sanitary system. These plans align with and will continue to implement the best practices from other Municipalities such as the Region of York and the City of Cambridge.

Added by [jeff.paul_1424](#)

[Click here](#) to view the comment

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Friday, December 22, 2023 7:39:25 PM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Thanks for the fulsome answer. I suggest that in the Sanitary Master Plan the City of Kitchener set a specific date by which an initial report will be available specifying (1) the magnitude of existing I&I flows and (2) setting five year and twenty year targets for reduction in I&I flows.. As I noted York Region is already a decade into its twenty year I&I reduction program and is exceeding reduction targets. Similarly Cambridge has reported large reductions in its I&I flows from 32% in 2016 to 20% in 2020.as a result of their I&I reduction efforts.

Added by HughWhiteley

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Wednesday, December 20, 2023 4:55:41 PM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Use of Demand Management in the design and operation of municipal sanitary-sewer systems has great potential to reduce present and future capital and operating costs. The importance of Demand Management has been recognized by the Region of York which has been using Demand Management to manage its Water and Wastewater Systems since 2011. The Region of York estimates that over the last 23 years the Region's water conservation project has reduced water-supply consumption by 27 megalitres/day (equivalent to the daily water used by 135,000 people) and the Inflow and Infiltration Reduction Program has reduced sanitary-sewer flows by 22 megalitres/day (equivalent to wastewater flows from a population of 110,000) for an overall reduction of sanitary flows corresponding to a population increase of 245,000 people. The City of Kitchener can achieve similar benefits by making Demand Management a central policy emphasis in its current update of the Sanitary Master Plan. The City should follow the example set by the Region of York and establish a multiple decade reduction target for both water conservation and for I&I reduction with every five-year reporting progress being made to achieve the targets as set in the plan. Since in the Region of Waterloo Demand Management for water conservation is conducted by the Region of Waterloo and not the City of Kitchener the City of Kitchener Sanitary Master Plan will not contain water conservation policies. The Sanitary Master plan should, however, contain specific information on the Region's water conservation targets and should emphasize the importance of achieving these targets as an essential support for achieving success for the Sanitary Master Plan. In order to identify feasible targets for I&I reduction the first step is to estimate the current level of I&I flows. The City of Cambridge has successfully documented reduced I&I flows using this approach. In Cambridge reductions in infiltration into under-river crossings and reduction of improper sealing of joints in locations with high groundwater levels were important in achieving reduced I&I. Reference website for York Region Inflow and Infiltration | York Region website Inflow and Infiltration | York Region

Added by HughWhiteley

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From: [Jean Hao](#)
To: .
Subject: RE: City of Kitchener Sewer System Master Plan
Date: Thursday, January 18, 2024 9:44:38 AM

Hello Barbara,

Sorry for the late reply, and thank you for your comments and your continued participation in the public engagement for this project. It is important to the City to ensure that the public is properly informed and consulted on this project. Acknowledging your comments on the timing of the consultation, we reopened the forum for comments for the first week of January to allow anyone who was not able to provide comments leading up to the holidays to do so. The presentation and contact information for the project team remain posted on the Engage Kitchener site and we will continue to respond to any comments that may be sent directly to the City or our Consultant.

With regard to the I/I information you have requested and your comments on the scope of the project, we recommend that you review the final report when it is available as it will contain more detailed information on the study work than what was presented in the public meeting materials. That report will be made available for review and public comment.

We apologize for the formatting issues on the Forum. We have shared our concerns about the lack of formatting with the platform provider and we will use a different tool in the future to ensure readability. In the meantime, we will repost all Forum content with improved formatting in a newsfeed update to improve readability. If you haven't already, subscribe on Engage and you will receive an email when this content is posted.

Thank you again for your participation in this study.

Jean Hao, P.Eng., PMP (She/Her)

Design & Construction Project Manager, Planning and Programs|Sanitary & Stormwater|City of Kitchener
Office: 519-741-2200 ext. 4156 | TTY 1-866-969-9994 | Jean.Hao@kitchener.ca

From: Barbara Robinson
Sent: Tuesday, January 9, 2024 11:20 AM
To: Jean Hao <Jean.Hao@kitchener.ca>
Subject: City of Kitchener Sewer System Master Plan

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Jean,

I observe that the public consultation resulted in my comment and a single comment from another technical expert from Guelph.

As you are aware, I expressed strong objections on November 20 of this format for public engagement. In my opinion it was unlikely to attract residents' attention, and December is a very poor time to gather public input. As it turned out, prior to December 20, only my

comments were submitted on the forum. Another technical expert from Guelph commented, but no residents.

The online forum did not provide any instructions regarding the need to pose each question separately. When I filled it out, I formatted it to make it readable. When it was posted, all the comments were in a jumble and the average resident would not be willing to weed through that. That made the information unapproachable for the vast majority of residents.

The consultant answered some, but not all, of my questions and requests. It was difficult to wade through her comments also.

Please send me actual bulk I/I (calculated correctly!) at the Kitchener WWTP for the last 3 years. You don't need new flow monitoring for this, the data is available. You need this information to plan the Master Plan. If I/I is very high (I believe it is), developing a model before addressing the low hanging fruit, is pointless.

In my opinion, public consultation was not achieved for this important work, and I think it needs to be redone in another format. And advertised! Please post it on My Kitchener, which is read by a lot more people than the newspaper... Surely it was developed for this purpose.

The contents of the Master Plan PIC 2 do not consider any of the modern best practices for sewers and I/I, including any of the recommendations in the new national sewer standards (2), CSA standards and other modern information about sewer systems.

I'm busy being the national sewer expert, and am distressed that so much was missed in this expensive master plan. As usual, the focus is on spending most of the budget on developing a model, which is of limited use in addressing I/I. And addressing I/I must be the focus of a sewer master plan, since it is the simplest way to free up capacity. Addressing I/I makes capacity problems disappear. Indeed, mandatory and enforced roof leader disconnection, if applied across the City, could easily reduce peaking at the plant by 100%. Think of the flooding risk reduction and reduced costs at the plant (which we pay for in our Regional taxes). And, every connected roof in Kitchener costs all residents \$2,000 per year, each and every year.

I was pleased to see that the City recently posted on FB not to flush wipes - that's the first time I've ever seen a public notice about our sewer systems.

Barbara Robinson,

From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Wednesday, December 20, 2023 10:05:07 AM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Thank you for your comments on inflow and infiltration (I/I). Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs. The goal of the programs is to reduce flows in the sanitary sewer system and improve the City's understanding of the system's state. This will allow the City to better assess the system's condition and performance. Programs include:

- Rainfall & Flow Monitoring Program This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information.
- Computer Model Updates & Maintenance This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making.
- Sanitary Trunk Sewer & Forcemain Investigation Program This program enhances the City's existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner. Data collection will allow the City to better assess inflow and infiltration into the sanitary system. This alternative recommends programs to remove sources of strain on the system caused by:
 - The inflow of excess water into sewer pipes. Inflow water comes from yards, roofs, drains, downspouts, and manhole covers.
 - The infiltration of excess water from the groundwater system. The water then enters the sewers. Infiltration occurs following large storm events that can trigger a rise in groundwater levels.

The following programs will be implemented based on available data as it becomes available:

- Inflow and Infiltration Reduction Program This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows.
- Hydrogen Sulfide Monitoring and Dosing Program This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels. It is worth noting that this is a significant body of new work to undertake. It is also a very important body of work with a high potential return on investment. The City looks forward to initiating these efforts upon completing the master plan.

Added by Sarah Lang

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Wednesday, December 20, 2023 9:57:37 AM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Thank you for your interest and participation in this study. The City used a virtual format for both PICs through the City's Engage Kitchener platform. The Integrated Sanitary Master Plan is a City-wide study and of technical nature. Asynchronous virtual PICs makes it easier for participants to give input and share ideas over a much more flexible period. Participants have weeks to share feedback, rather than a single 2-3 hour in-person meeting. The format also offers the opportunity to engage from home or a nearby internet access point such as a community centre or library. It avoids travelling in potentially challenging weather conditions this time of year. Due to the high-level planning nature of Master Plans, they have historically received lower levels of engagement. Outcomes are less tangible than a capital project such as a new community centre or public park space planning. This master plan is not identifying new infrastructure to be built where none currently exists. Where existing infrastructure will undergo renewal or replacement, the City will engage with residents in the vicinity of the proposed work. This engagement will take place as more details become available through the design process. Receiving feedback on the sanitary master plan is important to us. The commenting period for this public information centre remains open until January 7th. The materials will remain available on the Engage Kitchener website. We will continue to accept comments from the public for the duration of the study. Thank you once again for your engagement. We look forward to hearing your feedback.

Added by Sarah Lang

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Monday, December 18, 2023 1:51:01 PM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

Comments on City of Kitchener Master Plan PIC #2, December 2023. Barbara Robinson, resident, President of Norton Engineering Inc. The problem statement should not only include “management of sanitary infrastructure”, but management of sewage itself, e.g. leaking sewers, or Inflow and Infiltration. And not just the sewers and pumping stations, but the sewage itself. Please provide actual I/I numbers for Kitchener WWTP. Recall that this is calculated as total influent at WWTP minus sum of all billed water, with the sewer/watersheds rationalized to match. I calculated this once for the City and I/I was about 40%. Residents pay for this I/I on each and every monthly bill. It is preposterous not to invest in reducing it, in this era of residents really struggling to keep up with the costs of living. Developing a model will predict future flows (and will be out of date in 5 years unless it is regularly updated and re-calibrated – which is rare). It will do nothing to address existing I/I, of which the sewers are full (since there is no I/I program in Kitchener at all). A model cannot be considered a means of identifying I/I – since models are rife with errors. See Norton’s research online or on LinkedIn. Please note that flow monitoring of very large sewersheds does not lead to being able to pinpoint I/I – it is too specific to neighbourhoods (age of homes, construction materials, soils, groundwater levels, quality of installation and inspection, etc.). Surface water infiltration is the least of the problems. Groundwater infiltration and inflow are. The City has no roof leader disconnection program. It is illegal, today, per your sewer use by-law, for residents to discharge rain water or groundwater to the sanitary sewer. The City is actually themselves reconnecting cellar drains (groundwater) to the sanitary sewer during reconstructions (example, Earl St.), which is in contravention of its own by-law. Each and every connected roof leader in Kitchener costs all residents \$2,000 (avg rainfall x sewage charge), each and every year, and increases risk of flooding for all. See “the sewer lady” on TVO’s the Agenda with Steve Paikin (July 2023): <https://www.tvo.org/video/the-sewer-lady-on-how-to-avoid-flooding>. Since roof leaders are illegal connections, it is baffling that the City has not addressed this already. The sewer rate increase is 7.1% again in the 2024 budget – how can we keep charging residents more while doing nothing to reduce the costs of the operation of the system? I/I becomes sewage as soon as it enters the sewers. There is no magical “I/I separator” at the headworks of the plant. I/I is the proximate cause of flooding – and reducing it will provide protection from peakier storms. When there is flooding, or when we need to expand the WWTP, we do not say, well, I/I is a big culprit here, but we don’t need to pay for it because it’s I/I. The cost of I/I is the cost of sewage, e.g. \$3.27/m³. The preferred solutions don’t address these essential issues in the sewer system. The environmental impacts of the flushing of deleterious materials into the sewer, the costs, and the increased risk to residents of basement backup, means this issue needs to be addressed. See <https://kitchener.ctvnews.ca/plumbing-problem-kitchener-ont-engineer-pushing-to-change-canada-s-plumbing-code-1.6480544>, July 2023. New subdivisions have been demonstrated to be leaking, often badly, across Ontario. Norton’s efficient and cost-effective solution of flow

monitoring all new subdivisions to ensure conformance with allowable leakage stated in OPS standards has been adopted by municipalities across Ontario. Failure to adopt this forces existing residents to pay for I/I left by developers, in perpetuity. It is the municipality's responsibility to protect residents from this unacceptable condition. See The Agenda with Steve Paikin in 2019: <https://www.tvo.org/video/ontarios-leaky-sewer-problem> Have you referenced the two new National Sewer Guidelines published by Standards Council of Canada? "Reducing the Risk of I/I in New Sewer Construction", Robinson, Sandink and Engineers Canada, for Standards Council of Canada, 2019, Seed Document. Developed into a final Standard by BNQ, and "Mitigation of the Risks of Inflow and Infiltration in New Sanitary Sewer Systems", BNQ, 2022. And "Developing an Efficient and Cost-Effective I/I Program", Robinson and Sandink for Standards Council of Canada, 2021. This seed document is currently being developed into a final standard by BNQ. This master plan reads like one written in the early 2000s – without reference to the modern approaches to I/I which have been developed since then. Please confirm that CAN/CSA Z800-18 was also consulted. It contains details on private side I/I and ways to reduce this risk. Where are the details of a public education campaign? Apart from a very recent FB post about what to flush, I have never seen or heard media on how residents can operate and maintain their private sewer from the City. This is no longer good enough – it is clear by now that residents across Ontario clearly do not understand how to use their sewer. Norton's public education campaign of "Sewers are NOT Trash Cans" will efficiently and cost-effectively address this, if accompanied by media and in-person information sessions. See CBC Radio, <https://www.cbc.ca/player/play/2683773960> eight years ago - this is not new information. See also CBC Radio in June 2023, <https://www.cbc.ca/player/play/2241426499736>. I do not believe that the City has adequately addressed many of the issues that are germane to planning for future growth and capacity in the sewers.

Added by Barbara@Norton

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Monday, December 18, 2023 12:52:59 PM

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Hi

You have received a new comment on the Forum Topic, Virtual Public Information Centre #2 on project Integrated Sanitary Master Plan on your site,

I only see a single comment here. That tells me that you have not achieved public consultation. Obviously, the timing of this PIC is not great - we generally avoid December.

Added by Barbara@Norton

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From: [Engage](#)
To: [Micks, Sarah](#)
Subject: New comment added on Virtual Public Information Centre #2
Date: Thursday, December 14, 2023 12:21:45 PM

Hi

You have received a new comment on the Forum Topic, **Virtual Public Information Centre #2** on project **Integrated Sanitary Master Plan** on your site,

Thank you for your comment. The Integrated Sanitary Master Plan does not include new sanitary sewers for areas currently serviced by septic systems. This is outside the scope of this study. We consider new sanitary services on a case-by-case basis while planning road reconstructions. As the City of Kitchener expands the sewer system, the costs to provide new services are taken into consideration. Please note that the City does not pay for work on private property. New services are built within the municipal right-of-way only. Any work needed to convert a private septic system to connect with a municipal sanitary service is the property owner's responsibility. Please let me know if you have any questions.

Added by Sarah Lang

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December 15, 2023

Jean Hao
Design and Construction Project Manager
City of Kitchener
200 King Street West
Kitchener ON N2G 4V6
jean.hao@kitchener.ca

Jeff Paul
Project Manager
Stantec
400-1305 Riverbend Road
London ON N6K 0J5
jeff.paul@stantec.com

Re: City of Kitchener Integrated Sanitary Master Plan

Dear Ms. Hao and Mr. Paul,

Grand River Conservation Authority (GRCA) staff have reviewed public information centre 2 materials for the City of Kitchener Integrated Sanitary Master Plan (ISMP), proceeding under the Municipal Class Environmental Assessment (Class EA).

The GRCA has interest in any specific projects within GRCA's Regulation Limit. We wish to provide guidance and advice under Ontario Regulation 686/21, acting on behalf of the Province regarding natural hazards identified in Section 3.1 of the Provincial Policy Statement (PPS, 2020), as well as in accordance with Ontario Regulation 150/06 and GRCA's Board approved policies.

We have scanned the GIS data provided by the City, and we offer the following comments:

1. Projects ST2, LT1, MT1, MT2 and ST3 are noted as being sewer replacements and pumping station upgrades. They are proposed in or adjacent to GRCA's regulated area, and are illustrated in maps included in Appendix A. The GRCA generally does not have concerns with upgrades to public infrastructure in floodplains and adjacent to wetlands and valleys if existing grades will be restored. These projects may likely require a GRCA permit prior to construction.

2. A number of other projects within the GRCA-regulated area are noted as being “recommended for remediation”, having “recommendations from condition assessment reports” or proposing “SCADA upgrades.” These projects may qualify as routine maintenance under GRCA policies, and/or not propose development as defined in the Conservation Authorities Act (e.g. interior renovations within existing buildings). These projects are listed in Appendix B. Please confirm the scope of work for these projects with GRCA during detailed design.
3. Many infrastructure projects, GRCA-regulated or not, have the potential to introduce sedimented runoff or dewatering erosion impacting features of interest. Typical sediment control measures should be prepared in all instances.
4. Project MT1 may partially be within Stanley Park, which is GRCA land maintained under agreement by the City. The City should review the agreement to confirm it is considered maintenance works covered by the agreement; if it is, the project would not require an access permit from the GRCA.

We trust this information is of assistance, and would appreciate the opportunity to comment further during detailed design. If you have any questions or require additional information, please contact me at 519-621-2761 ext. 2292 or theywood@grandriver.ca.

Sincerely,



Trevor Heywood
Resource Planner
Grand River Conservation Authority

Encl. Appendix A – Resource Mapping
Appendix B – Project Tables

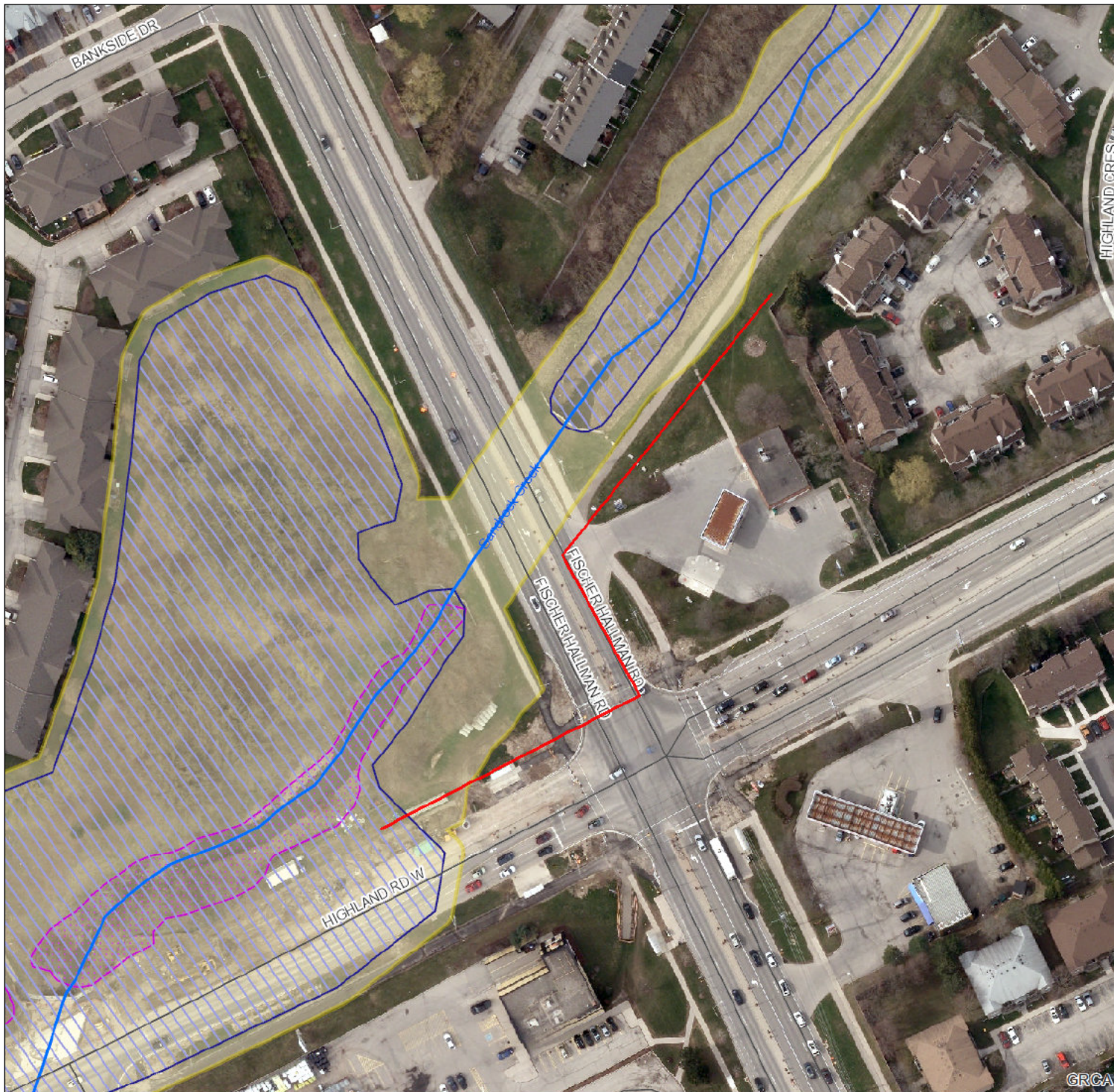
cc: Mark Anderson, GRCA

Appendix A
Resource Mapping



Kitchener Sanitary Master Plan

Project ST2

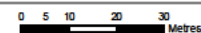


Legend

- Regulation Limit (GRCA)
- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Wetland (GRCA)
- Floodplain (GRCA)**
 - Engineered
 - Estimated
 - Approximate
 - Special Policy Area
- Slope Valley (GRCA)**
 - Steep
 - Oversteep
 - Steep
- Slope Erosion (GRCA)**
 - Oversteep
 - Toe
- Lake Erie Flood (GRCA)
- Lake Erie Shoreline Reach (GRCA)
- Lake Erie Dynamic Beach (GRCA)
- Lake Erie Erosion (GRCA)
- Parcel - Assessment (MPAC/MNRF)

This legend is static and may not fully reflect the layers shown on the map. The text of Ontario Regulation 150/06 supercedes the mapping as represented by these layers.

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Kitchener Sanitary Master Plan

Project LT1

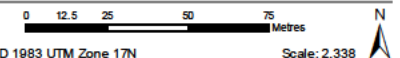


Legend

- Regulation Limit (GRCA)
- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Wetland (GRCA)
- Floodplain (GRCA)
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Kitchener Sanitary Master Plan

Project MT1

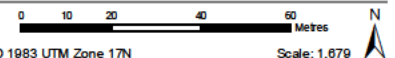


Legend

- Regulation Limit (GRCA)
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Kitchener Sanitary Master Plan

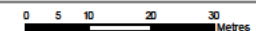
Project MT2

Legend

- Regulation Limit (GRCA)
- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Wetland (GRCA)
- Floodplain (GRCA)
 - Engineered
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NAD 1983 UTM Zone 17N

Scale: 1,210



GRCA



Kitchener Sanitary Master Plan

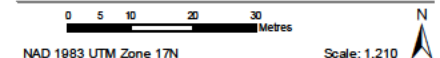
Project ST3

Legend

- Regulation Limit (GRCA)
- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Wetland (GRCA)
- Floodplain (GRCA)**
 - Engineered
 - Estimated
 - Approximate
 - Special Policy Area
- Slope Valley (GRCA)**
 - Steep
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- Lake Erie Flood (GRCA)
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- Lake Erie Dynamic Beach (GRCA)
- Lake Erie Erosion (GRCA)
- Parcel - Assessment (MPAC/MNRF)

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Appendix B
Project Tables

Major Projects Within / Adjacent to GRCA-Regulated Areas (Permit Possibly Required)

PROJ_ID	PROJ_TYPE	PROJ_JUST	PROJ_HORIZ	PRIORITY	LOCATION
ST2	Replacement of 3 lengths of sewer - upsizing from 675 mm diameter to 750 mm diameter	Capacity	Short Term	4	Upper Schneider - Sandrock
LT1	Replacement of 2 lengths of sewer to 825 mm diameter downstream of Shirley and Manchester SPS discharge	Capacity	Long Term	6	Manchester
MT1	Replacement of 3 lengths of sewer on Dalewood, 2 lengths of sewer on Penrose and one length of sewer through the easement - all pipes upgraded to 300 mm diameter	Capacity	Medium Term	5	Dalewood
MT2	Replacement of 2 lengths of sewer - upsize from 300 mm diameter to 375 mm diameter	Capacity	Medium Term	5	Upstream of King St SPS
ST3	Increase pumping station to 378 L/s firm capacity - project involves addition of pumps to accommodate higher flows	Capacity	Short Term	1	Shirley SPS

Minor Projects Within / Adjacent to GRCA-Regulated Areas (Permit May Not Be Required)

PROJ_ID	PROJ_TYPE	PROJ_JUST	PROJ_HORIZ	PRIORITY	asset_id	LOCATION
ST24	Recommended for remediation based on sewer condition	Condition	Short Term	1	Multiple	Ottawa
ST77	Recommended for remediation based on sewer condition	Condition	Short Term	1	103117	Old Mill
ST44	Recommended for remediation based on sewer condition	Condition	Short Term	1	Multiple	Bedford
ST26	Recommended for remediation based on sewer condition	Condition	Short Term	1	107730	Greenbrook Drive
ST75	Recommended for remediation based on sewer condition	Condition	Short Term	2	Multiple	Manitou
ST28	Recommended for remediation based on sewer condition	Condition	Short Term	2	100263	Connaught
ST48	Recommended for remediation based on sewer condition	Condition	Short Term	2	103960	Mcleod
ST23	Recommended for remediation based on sewer condition	Condition	Short Term	2	109989	Bankside
ST22	Recommended for remediation based on sewer condition	Condition	Short Term	2	110504	Westcrest
ST21	Recommended for remediation based on sewer condition	Condition	Short Term	2	118182	Vanier
ST96	Recommended for remediation based on sewer condition	Condition	Short Term	3	100304	Hillmount
ST93	Recommended for remediation based on sewer condition	Condition	Short Term	3	100628	Siebert
ST29	Recommended for remediation based on sewer condition	Condition	Short Term	3	2002189	Richmond
ST58	Recommended for remediation based on sewer condition	Condition	Short Term	3	108878	West Heights
ST78	Recommended for remediation based on sewer condition	Condition	Short Term	4	103108	Old Mill
ST43	Recommended for remediation based on sewer condition	Condition	Short Term	4	107094	Conestoga Parkway
ST10	SCADA upgrades due to NFPA requirements	Condition	Short Term	3	-	Falconridge SPS
ST14	SCADA upgrades due to NFPA requirements	Condition	Short Term	3	-	Patricia SPS
ST11	SCADA upgrades due to NFPA requirements	Condition	Short Term	1	-	King Street SPS
ST6	SCADA upgrades due to NFPA requirements	Condition	Short Term	2	-	Bancroft SPS

ST7	SCADA upgrades due to NFPA requirements	Condition	Short Term	2	-	Carson SPS
ST16	SCADA upgrades due to NFPA requirements	Condition	Short Term	2	-	Springmount SPS
ST5	SCADA upgrades due to NFPA requirements	Condition	Short Term	2	-	Apple Tree SPS
ST17	SCADA upgrades due to NFPA requirements	Condition	Short Term	4	-	Stoke SPS
ST18	SCADA upgrades due to NFPA requirements	Condition	Short Term	1	-	Shirley SPS
ST20	Recommendations from Condition Assessment Reports	Condition	Short Term	0	-	All Pumping Stations
MT5	Recommendations from Condition Assessment Reports	Condition	Medium Term	5	-	All Pumping Stations
LT2	Recommendations from Condition Assessment Reports	Condition	Long Term	6	-	All Pumping Stations

From: [Harvey, Joseph \(MCM\)](#)
To: [Micks, Sarah](#)
Subject: RE: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2 [MCM File 0015079]
Date: Wednesday, December 20, 2023 10:11:03 AM

Hi Sarah,

Thanks for confirming!

Have a good week.

Joseph Harvey | Heritage Planner

Citizenship, Inclusion and Heritage Division | Heritage Branch | Heritage Planning Unit

Ministry of Citizenship and Multiculturalism

613.242.3743

Joseph.Harvey@ontario.ca

Effective October 17, 2022, units responsible for cultural heritage matters have been transferred from the Ministry of Tourism, Culture and Sport (MTCSS) to the Ministry of Citizenship and Multiculturalism (MCM). Responsibility for the Ontario Heritage Act and associated Provincial functions is now held by MCM. Individual staff roles and contact information remain unchanged.

From: Micks, Sarah <Sarah.Micks@stantec.com>
Sent: December 18, 2023 12:31 PM
To: Harvey, Joseph (MCM) <Joseph.Harvey@ontario.ca>
Cc: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Subject: RE: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2 [MCM File 0015079]

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Hi Joseph,

This Master Plan is following Approach #2 under the 2015 EA process. We can confirm that all the recommendations of this Master Plan are either improvements to existing infrastructure (within the municipal right-of-way, or on municipally owned lands), or implementing programs to obtain data about the existing system. Therefore, the projects recommended coming out of this Master Plan are schedule A/A+.

Any future projects identified as a result of the programs and data collection will be undertaken under separate study, as required.

Thanks!

Sarah Micks

Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5

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From: Harvey, Joseph (MCM) <Joseph.Harvey@ontario.ca>
Sent: Friday, December 15, 2023 4:55 PM
To: Micks, Sarah <Sarah.Micks@stantec.com>
Cc: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Subject: FW: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2 [MCM File 0015079]

Hi Sarah,

Hope all is well.

I'm looking to clarify which master planning approach the City of Kitchener's Integrated Sanitary Master Plan will be proceeding under? Our primary concern is whether the notice of completion for this master plan could incorporate additional schedule B and or C undertakings identified through the master planning process - as is the case with master plans proceeding according to approaches 2 and 3.

Please advise,

Joseph Harvey | Heritage Planner

Citizenship, Inclusion and Heritage Division | Heritage Branch | Heritage Planning Unit

Ministry of Citizenship and Multiculturalism

613.242.3743

Joseph.Harvey@ontario.ca

Effective October 17, 2022, units responsible for cultural heritage matters have been transferred from the Ministry of Tourism, Culture and Sport (MTCS) to the Ministry of Citizenship and Multiculturalism (MCM). Responsibility for the Ontario Heritage Act and associated Provincial functions is now held by MCM. Individual staff roles and contact information remain unchanged.

From: Micks, Sarah <Sarah.Micks@stantec.com>
Sent: December 6, 2023 4:27 PM
Cc: Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2

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Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener

Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5

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APPENDIX A.6
Public and Agency Comment Log

Contact	Date	Comment	Draft Response/ Status
Agencies			
Fisheries and Oceans Canada Cindy Mitton-Wilkie Cynthia.Mitton-Wilkie@DFO-MPO.GC.ca	September 2, 2021 Email NOSC	Please remove me from the distribution list. Any correspondence regarding projects should be sent to Fisheries and Oceans Canada's triage unit at: fisheriesprotection@dfo.mpo.gc.ca	Removed from contact list.
Grand River Conservation Authority Chris Foster-Pengelly cfosterpengelly@grandriver.ca	November 2, 2021 Email NOSC	I am confirming that Grand River Conservation Authority would like to be involved and added to the contact list. If there is anything that you require from the GRCA, please let me know.	Response November 2, 2021: Thanks for letting us know. We will add you to the contact list.
	December 15, 2023 Email	Grand River Conservation Authority (GRCA) staff have reviewed public information centre 2 materials for the City of Kitchener Integrated Sanitary Master Plan (ISMP), proceeding under the Municipal Class Environmental Assessment (Class EA). The GRCA has interest in any specific projects within GRCA's Regulation Limit. We wish to provide guidance and advice under Ontario Regulation 686/21, acting on behalf of the Province regarding natural hazards identified in Section 3.1 of the Provincial Policy Statement (PPS, 2020), as well as in accordance with Ontario Regulation 150/06 and GRCA's Board approved policies. We have scanned the GIS data provided by the City, and we offer the following comments: <ol style="list-style-type: none"> 1. Projects ST2, LT1, MT1, MT2 and ST3 are noted as being sewer replacements and pumping station upgrades. They are proposed in or adjacent to GRCA's regulated area, and are illustrated in maps included in Appendix A. The GRCA generally does not have concerns with upgrades to public infrastructure in floodplains and adjacent to wetlands and valleys if existing grades will be restored. These projects may likely require a GRCA permit prior to construction 2. A number of other projects within the GRCA-regulated area are noted as being "recommended for remediation", having "recommendations from condition assessment reports" or proposing "SCADA upgrades." These projects may qualify as routine maintenance under GRCA policies, and/or not propose development as defined in the Conservation Authorities Act (e.g. interior renovations within existing buildings). These projects are listed in Appendix B. Please confirm the scope of work for these projects with GRCA during detailed design. 3. Many infrastructure projects, GRCA-regulated or not, have the potential to introduce sedimented runoff or dewatering erosion impacting features of interest. Typical sediment control measures should be prepared in all instances 4. Project MT1 may partially be within Stanley Park, which is GRCA land maintained under agreement by the City. The City should review the agreement to confirm it is considered maintenance 	No response required.

		<p>works covered by the agreement; if it is, the project would not require an access permit from the GRCA</p> <p>We trust this information is of assistance, and would appreciate the opportunity to comment further during detailed design. If you have any questions or require additional information, please contact me at 519-621-2761 ext. 2292 or theywood@grandriver.ca.</p>	
<p>Hydro One Susan Sun Susan.sun@hydroone.com secondarylanduse@hydroone.com</p>	<p>September 15, 2021: Email NOSC</p>	<p>Thank you for sending us notification regarding (Integrated Sanitary Master Plan). 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.</p> <p>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.</p> <p>Also, we would like to bring to your attention that should (Integrated Sanitary Master Plan) 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction</p>	<p>Response September 17, 2021: Thank you for your comments regarding the City of Kitchener Integrated Sanitary Master Plan (ISAN-MP). Your information is appreciated and will be considered as we move forward with the project background review and evaluation of alternative solutions for the Municipal Class Environmental Assessment Process. If a potential conflict is identified with your assets, a member of the project team will contact you to provide further information. You will continue to be on the project mailing list for future notifications. Should you have any further questions or concerns, please contact Jean Hao at the City of Kitchener by telephone at 519-741-2200, ext. 4156, or by email jean.hao@kitchener.ca, or contact the undersigned.</p>

		<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	
<p>Ministry of Environment, Conservation and Parks Joan Del Villar Cuicas Regional Environmental Planner Joan.delvillarcuicas@ontario.ca</p>	<p>October 6, 2021 Email NOSC</p>	<p>This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the City of Kitchener has indicated that the study is following the approved environmental planning process for a Schedule B project under the Municipal Class Environmental Assessment (Class EA).</p> <p>The updated (February 2021) attached “Areas of Interest” document provides guidance regarding the ministry’s interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.</p> <p>The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.</p> <p>The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada’s Constitution Act 1982. Where the Crown’s duty to consult is triggered in relation to the proposed project, the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter. The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.</p> <p>Based on information provided to date and the Crown’s preliminary assessment the proponent is required to consult with the following</p>	<p>Response October 20, 2021: Thank you for your comments regarding the City of Kitchener Integrated Sanitary Master Plan (ISAN-MP). The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage (cultural heritage and archaeology) environments to satisfy the requirements of the Municipal Class Environmental Assessment process. Your information and "Areas of Interest" are appreciated and will be considered as we move forward with the project background review and evaluation of alternative solutions. The Master Plan process will identify specific projects to address current and future sanitary servicing needs of the community. Depending on the specific projects identified, additional assessments may be completed later in the study.</p> <p>The project Notice of Study Commencement was sent to the Mississaugas of the Credit First Nation; Six Nations of the Grand River (both Elected Council and the Haudenosaunee Confederacy Chiefs Council), as well as the Huron Wendat Nation, based on previous consultation activities undertaken by the City of Kitchener. The communities will continue to remain on the project mailing list for consultation at key project milestones. The draft Master Plan will be circulated to MECP least 30 days prior to the issuance of the Notice of Completion, as requested.</p> <p>Should you have any further questions or concerns, please contact the undersigned.</p>

		<p>communities who have been identified as potentially affected by the proposed project:</p> <ul style="list-style-type: none"> • Mississaugas of the Credit First Nation • Six Nations of the Grand River (both Elected Council and Haudenosaunee Confederacy Chiefs Council) <p>Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the “Code of Practice for Consultation in Ontario’s Environmental Assessment Process”. Additional information related to Ontario’s Environmental Assessment Act is available online at: www.ontario.ca/environmentalassessments.</p> <p>Please also refer to the attached document “A Proponent’s Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities” for further information, including the MECP’s expectations for EA report documentation related to consultation with communities. The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by MECP:</p> <ul style="list-style-type: none"> - Aboriginal or treaty rights impacts are identified to you by the communities - You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right - Consultation with Indigenous communities or other stakeholders has reached an impasse - A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights <p>The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.</p> <p>A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry’s technical reviewers to provide comments.</p> <p>Please also ensure a copy of the final notice is sent to the ministry’s West Central Region EA notification email account (eanotification.wcregion@ontario.ca) after the draft report is reviewed and finalized.</p> <p>Should you or any members of your project team have any questions regarding the material above, please contact me at joan.delvillarcuicas@ontario.ca or 365-889-1180.</p>	
<p>Ministry of Tourism, Culture and Sport Joseph Harvey Joseph.Harvey@ontario.ca</p>	<p>September 23, 2021 Email NOSC</p>	<p>Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Study Commencement for this project. MHSTCI’s interest in this master plan relates to it’s mandate of conserving Ontario’s cultural heritage, which includes archaeological resources, built heritage resources and cultural heritage landscapes.</p> <p>MHSTCI understands that master plans are long range plans which integrate infrastructure requirements for existing and future land use with environmental assessment planning principles. The Municipal</p>	<p>Email Response October 13, 2021: Thank you for your email and letter September 23, 2021 regarding the City of Kitchener Integrated Sanitary Master Plan. Your interest in this project is appreciated.</p> <p>The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage (cultural heritage and archaeology) environments to satisfy the requirements of the Municipal Class Environmental Assessment process. This will include a review of the Municipal Heritage Register and City of Kitchener Cultural Heritage</p>

	<p>Class Environmental Assessment (MCEA) outlines a framework for master plan and associated studies which should recognize the planning and design process of this Class EA and should incorporate the key principles of successful environmental assessment planning identified in Section A.1.1. The master planning process will, at minimum, address Phases 1 and 2 of the Planning and Design Process of the MCEA.</p> <p>This letter provides advice on how to incorporate consideration of cultural heritage in the above-mentioned master planning process by outlining the technical cultural heritage studies and the level of detail required to address cultural heritage in master plans. In accordance with the MCEA, cultural heritage resources should be identified early in the process in order to determine known and potential resources and potential impacts.</p> <p>Master Plan Summary The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City’s sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act.</p> <p>Identifying Cultural Heritage Resources MHSTCI understands that the final public notice for the master plan could become the notice of completion for the Schedule B and C MCEAs within it and that this approach would likely result in extensive documentation should the master plan include numerous Schedule C MCEA undertakings. In regards to cultural heritage resources the Master Plan Document should;</p> <ul style="list-style-type: none"> • identify existing baseline environmental conditions, • identify expected environmental impacts and, • Include measures to mitigate potential negative impacts. <p>Archaeological Resources Any undertakings as part of the master plan should be screened using the MHSTCI Criteria for Evaluating Archaeological Potential to determine if an archaeological assessment is needed. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licensed under the Ontario Heritage Act and submitted for MHSTCI review prior to the completion of the master plan.</p> <p>Built Heritage Resources and 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:</p> <ol style="list-style-type: none"> 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 	<p>Landscape Study for listed properties, as well as documents such as the Official Plan which identify heritage conservation districts. The project team will also consult heritage mapping for heritage status information. The existing baseline cultural heritage conditions will be screened in accordance with the checklists referenced in your letter to determine if an archaeological assessment or further heritage reports may be required.</p> <p>Individual projects will be identified as part of the Master Plan process and are not known at this time. Once individual projects are determined, the Master Plan will include recommendations for further study.</p> <p>An electronic copy of technical studies will be provided to your email address upon project completion. We look forward to ongoing consultation with MHSTCI as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.</p>
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		<p>with this exercise: Criteria for Evaluating for Potential Built Heritage Resources and Cultural Heritage Landscapes.</p> <p>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.</p> <p>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.</p> <p>Where a known or potential built heritage resource or cultural heritage landscape may be directly and adversely impacted, and where it has not yet been evaluated for Cultural Heritage Value or Interest (CHVI), completion of a Cultural Heritage Evaluation Report (CHER) is required to fully understand its CHVI and level of significance. The CHER must be completed as part of the final EA report. If a potential resource is found to be of CHVI, then a Heritage Impact Assessment (HIA) will need to be undertaken and included in the final EA report. Our Ministry's Info Sheet #5: Heritage Impact Assessments and Conservation Plans outlines the scope of HIAs. Please send the HIA to MHSTCI for review and make it available to local organizations or individuals who have expressed interest in review.</p> <p>While some cultural heritage landscapes are contained within individual property boundaries, others span across multiple properties. For certain cultural heritage landscapes, it will be more appropriate for the CHER and HIA to include multiple properties, in order to reflect the extent of that cultural heritage landscape in its entirety.</p> <p>Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, community heritage registers, historical societies and other local heritage organizations.</p> <p>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.</p> <p>Environmental Assessment Reporting</p> <p>Technical cultural heritage studies are to 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. Please advise MHSTCI whether any technical heritage studies will be completed for this master plan and provide them to MHSTCI before issuing a Notice of Completion.</p> <p>Thank you for consulting MHSTCI on this project. Please continue to do so through the master plan process and contact myself with any questions or clarification.</p>	
	December 15, 2023	I'm looking to clarify which master planning approach the City of Kitchener's Integrated Sanitary Master Plan will be proceeding under?	Email Response December 18, 2023:

	Email	<p>Our primary concern is whether the notice of completion for this master plan could incorporate additional schedule B and or C undertakings identified through the master planning process – as is the case with master plans proceeding according to approaches 2 and 3.</p>	<p>This Master Plan is following Approach #2 under the 2015 EA process. We can confirm that all the recommendations of this Master Plan are either improvements to existing infrastructure (within the municipal right-of-way, or on municipally owned lands), or implementing programs to obtain data about the existing system. Therefore, the projects recommended coming out of this Master Plan are schedule A/A+.</p> <p>Any future projects identified as a result of the programs and data collection will be undertaken under separate study, as required.</p>
<p>Ministry of Northern Development, Mines, Natural Resources and Forestry Karina Cerniavskaja District Planner Mnrf.ayl.planners@ontario.ca</p>	<p>September 28, 2021 Email NOSC</p>	<p>The Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) received the notice for the City of Kitchener Integrated Sanitary Master Plan. 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>To ensure access to reliable and up to date information, please contact the Ministry of the Environment, Conservation and Parks at SAROntario@ontario.ca.</p> <p>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</p>	<p>Email Response October 13, 2021: Thank you for your email September 28, 2021 regarding the City of Kitchener Integrated Sanitary Sewer Master Plan (ISAN-MP). Your interest in this project is appreciated.</p> <p>The Master Plan includes a desktop review of the existing natural, socio-economic and cultural heritage environments to satisfy the requirements of the Municipal Class Environmental Assessment process. The review includes LIO data as well as Official Plan mapping for the City of Kitchener and Region of Waterloo Natural Heritage System (NHS). The background review will be considered as part of the identification of potential projects for the Master Plan and their evaluation as part of the Municipal Class Environmental Assessment process.</p> <p>Individual projects will be identified as part of the Master Plan process and are not known at this time. Once individual projects are determined, the Master Plan will include recommendations for further study if the projects interact with the natural features. The project team will also consider the regulatory information you provided in your email to determine whether the legislation may be applicable to any of the projects to be identified.</p> <p>We look forward to ongoing consultation with NDMNRF as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.</p>

		<p>should contact the Petroleum Operations Section at POSRecords@ontario.ca or 519-873-4634.</p> <p>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.</p> <p>For more information about the Public Lands Act: https://www.ontario.ca/page/crown-land-work-permits</p> <p>For more information about the Lakes and Rivers Improvement Act: https://www.ontario.ca/document/lakes-and-rivers-improvement-act-administrativeguide</p> <p>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.</p>	
<p>Township of Woolwich Randy Miller Development Engineering Supervisor rmiller@woolwich.ca</p>	<p>October 1, 2021 Email NOSC</p>	<p>Sorry for the late response. Could you add Ryan Tucker and myself to the contact list for the EA as contacts for Woolwich Township.</p>	<p>Email Response October 1, 2021: Thanks for letting us know, we will add you and Ryan Tucker to the contact list.</p>
<p>Infrastructure Ontario Rachael Contini Rachael.contini@infrastructureontario.ca</p>	<p>July 12, 2022 Email PIC 1</p>	<p>Thank you for sending us the Notice of Commencement for the City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1.</p> <p>Our initial scan indicates that property owned by the Minister of Government and Consumer Services is within and adjacent to your project's study area. This property is identified by the following Pins: - P73275</p> <p>While this was identified in our scan, it is ultimately the proponent's responsibility to verify if provincial government property is within the study area. Title documents may identify owners of provincial government property as any of the following: If provincial government property in the study area is not required for the project, please continue to consult us as a directly affected stakeholder. However, if government property is required for the project, the proponent should contact us so that we can advise about requirements for obtaining government property.</p> <p>Additionally, please remember to send notices to our dedicated notice email address: noticereview@infrastructureontario.ca</p>	<p>Email Response July 18, 2022: Hi Rachael,</p> <p>Thank you for your comment on the City of Kitchener Integrated Sanitary Master Plan. If we need property from the province for any of our projects, we will reach out to discuss the next steps.</p> <p>We will continue to consult you and send information to the below email address: noticereview@infrastructureontario.ca.</p>
<p>Hydro One Secondary Land Use secondarylanduse@hydroone.com</p>	<p>July 20, 2022 Email/Letter</p>	<p>Thank you for sending us notification regarding (Integrated Sanitary Master Plan). In our 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</p>	<p>No response required.</p>

		<p>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.</p> <p>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.</p> <p>Also, we would like to bring to your attention that should (Integrated Sanitary Master Plan) 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
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<p>Matthew Day Community Energy Program Manager WR Community Energy 519-589-6329 mday@wrcommunityenergy.ca</p>	<p>July 11, 2022 Email</p>	<p>Thanks for your work on the Sanitary Master Plan.</p> <p>(I'm cc'ing Anna Marie Cipriani to this thread for her information)</p> <p>Last year, WR Community Energy (a partnership between the Region, Cities, and Local Utilities) released this report looking at wastewater heat recovery (WWHR) potential in Waterloo Region. We found strong opportunities in Kitchener and Cambridge.</p> <p>Since then, we've been having follow-up conversations with the Region, our cities, and solution providers to corroborate our findings and identify and mitigate potential challenges.</p> <p>We believe there are WWHR opportunities in the City of Kitchener that a Master Plan could support.</p> <p>Please let me know if you're interested in a follow-up conversation</p>	<p>Comment Acknowledged.</p>
<p>Public</p>			
<p>Tom Slomke</p>	<p>September 2, 2021 Email NOSC</p>	<p>Please add my name and email address to the list of those interested in receiving information and reports on the proposed Integrated Sanitary Master Plan.</p> <p>I am a retired City Planner,</p> <p style="text-align: right;">I am also</p> <p>a member of the Kitchener Cycling and Trails Advisory Committee. I will be monitoring the study to examine alternatives that may affect trails and cycling facilities. Also, being a planner, I get interested in such stuff.</p>	<p>Email Response September 2, 2021: Thanks for letting us know. We will add your name and email address to the list of those interested in receiving information and reports on the proposed Integrated Sanitary Master Plan. We appreciate your feedback.</p> <p>Email Response September 2, 2021: I am so happy to hear you are interested in the Study. If you would like, you can also visit the Engage page and subscribe. This will allow you to receive updates and provide feedback throughout the duration of the engagement. Top right corner on the page (Stay informed) is where you can submit your email address for updates. If you are on mobile/phone, scroll to the bottom and you will see it there.</p>
<p>Hugh Whitely</p>	<p>December 12, 2023 Email PIC 2</p>	<p>Through my participation as a member of an advisory committee for the recently completed Master Plan for Guellph's sanitary sewer system I became aware of the prominence given to Demand Management in sanitary-sewer-flow management in the Region of York.</p> <p>I attach the report on successful application of Demand Management in the Region of York that was appended to their recently-issued Sanitary Sewer Master Plan. I am impressed by the progress York has already</p>	<p>Email Response December 19, 2023: Thank you for taking the time to provide your comments and the report.</p> <p>Part of your question relates to managing Kitchener's water demand. This is outside of the scope of our study. Water demand is outside of the City of Kitchener's responsibility in our two-tier system of governance. The Region of Waterloo manages Kitchener's water supply and demand. The Region is</p>

		<p>made in both per capita water conservation in the water supply system and in reductions of I&I in the sanitary sewer system return flows. I am even more impressed by their commitment to specific further reductions in both per capita supply and in further I&I reductions.</p> <p>In the forthcoming Integrated Sanitary Master Plan for Kitchener will there be a similar emphasis on continuing reductions in per capita supply and in reduced I&I as a central focus for efficiency ?</p>	<p>updating their Water Supply Strategy, which will look at sustainable water supply sources and water demands. More information is available on the Region's website.</p> <p>With regard to reducing inflow and infiltration (I/I) in the sanitary sewer system, the Integrated Sanitary Master Plan recommends programs to put in place in the short term:</p> <p>Infiltration and Inflow Reduction and Mitigation Programs</p> <p>The City of Kitchener will develop and implement an I/I program to reduce I/I in the sanitary sewer system.</p> <p>Rainfall and Flow Monitoring</p> <p>We need data to pinpoint areas of high infiltration and inflow accurately. The City of Kitchener will collect rainfall data and monitor flows in the sanitary sewer system. This program supports the I/I Reduction and Mitigation Programs.</p> <p>Sanitary Hydraulic Model Updates and Maintenance</p> <p>Through this program, we will ensure the City's InfoWorks ICM Sanitary Hydraulic model is updated and can provide calibrated information on sewer flows. This program supports the I/I Reduction and Mitigation Programs.</p> <p>Please let me know if you have further questions or comments about the I/I programs or the Integrated Sanitary Master Plan.</p> <p>Thank you again for sharing the report, it's always a great idea to share the information.</p>
<p>Barbara Robinson</p>	<p>November 23, 2023 Email</p>	<p>I do not believe that "virtual" consultation meets the requirements of public consultation per the MEA Class EA document. Engage Kitchener is simply a survey of people's individual opinions, not "con" sultation.</p> <p>On review of the 2023 MEA Municipal Class EA document, p.77,</p> <p>"This will allow the proponent to inform those being consulted of the nature of the problem or opportunity, the need for the project, the planning and design details formulated to date, and the inventories of the natural, social and economic environments; and, would <i>provide a forum to discuss</i> potential impacts and local sensitivities."</p> <p>A survey does not represent a "forum to discuss".</p> <p>Traditionally at PICs, different interest groups (e.g. hydrogeologists, or planners) would gather around specific information boards and discuss and debate the relative merits of the information with the City and Consultant staff who are familiar with that technical information. It</p>	<p>The City of Kitchener responded to this comment.</p>

		<p>allowed members of the general public to benefit from a variety of technical perspectives.</p> <p>In Appendix 5, the following are proposed as potential methods:</p> <table border="1"> <tr> <td>Information Collection / Exchange</td> <td> <ul style="list-style-type: none"> • website • public information centre; public open house; public consultation centre; public involvement centre (in person or virtual) • workshops for the public, specific interest or community groups and/or for representatives of different groups • small group meeting • meeting on a one-to-one basis • "kitchen table" meeting • field trip / site visit • comment sheets, surveys or questionnaires • telephone calls • personal visits • creation of a public liaison committee • representation on the Study Team </td> </tr> </table> <p>Given that the cost of owning and operating the sewer system in Kitchener is substantial and affects the public greatly (charges for sewer services have been increasing at a rate substantially above inflation - another 7% this year!) a "survey" is utterly inadequate. The table mentions a 'public involvement centre' potentially virtually, but is up to the proponent to determine the most suitable means of public consultation. Setting policy for sewers for the next 25 years is not a minor project. Sewers are the most important and costly infrastructure in the City, and as such should be given appropriate attention and care. The public badly need to be better informed about sewers.</p> <p>I object to the City's use of a survey to represent public consultation, and will submit such objection when you file for a 30-day review period</p>	Information Collection / Exchange	<ul style="list-style-type: none"> • website • public information centre; public open house; public consultation centre; public involvement centre (in person or virtual) • workshops for the public, specific interest or community groups and/or for representatives of different groups • small group meeting • meeting on a one-to-one basis • "kitchen table" meeting • field trip / site visit • comment sheets, surveys or questionnaires • telephone calls • personal visits • creation of a public liaison committee • representation on the Study Team 	
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<p>January 9, 2024</p> <p>Email</p>		<p>I observe that the public consultation resulted in my comment and a single comment from another technical expert from Guelph. As you are aware, I expressed strong objections on November 20 of this format for public engagement. In my opinion it was unlikely to attract residents' attention, and December is a very poor time to gather public input. As it turned out, prior to December 20, only my comments were submitted on the forum. Another technical expert from Guelph commented, but no residents.</p> <p>The online forum did not provide any instructions regarding the need to pose each question separately. When I filled it out, I formatted it to make it readable. When it was posted, all the comments were in a jumble and the average resident would not be willing to weed through that. That made the information unapproachable for the vast majority of residents. The consultant answered some, but not all, of my questions and requests. It was difficult to wade through her comments also. Please send me actual bulk I/I (calculated correctly!) at the Kitchener WWTP for the last 3 years. You don't need new flow monitoring for this, the data is available. You need this information to plan the Master Plan. If I/I is very high (I believe it is), developing a model before addressing the low hanging fruit, is pointless.</p> <p>In my opinion, public consultation was not achieved for this important work, and I think it needs to be redone in another format.</p>	<p>Email Response January 18, 2024: Sorry for the late reply, and thank you for your comments and your continued participation in the public engagement for this project. It is important to the City to ensure that the public is properly informed and consulted on this project. Acknowledging your comments on the timing of the consultation, we reopened the forum for comments for the first week of January to allow anyone who was not able to provide comments leading up to the holidays to do so. The presentation and contact information for the project team remain posted on the Engage Kitchener site and we will continue to respond to any comments that may be sent directly to the City or our Consultant.</p> <p>With regard to the I/I information you have requested and your comments on the scope of the project, we recommend that you review the final report when it is available as it will contain more detailed information on the study work than what was presented in the public meeting materials. That report will be made available for review and public comment.</p> <p>We apologize for the formatting issues on the Forum. We have shared our concerns about the lack of formatting with the platform provider and we will use a different tool in the future to ensure readability. In the meantime, we will repost all Forum content with improved formatting in a newsfeed update to improve readability. If you haven't already, subscribe on Engage and you will receive an email when this content is posted.</p>		

		<p>And advertised! Please post it on My Kitchener, which is read by a lot more people than the newspaper... Surely it was developed for this purpose.</p> <p>The contents of the Master Plan PIC 2 do not consider any of the modern best practices for sewers and I/I, including any of the recommendations in the new national sewer standards (2), CSA standards and other modern information about sewer systems.</p> <p>I'm busy being the national sewer expert, and am distressed that so much was missed in this expensive master plan. As usual, the focus is on spending most of the budget on developing a model, which is of limited use in addressing I/I. And addressing I/I must be the focus of a sewer master plan, since it is the simplest way to free up capacity.</p> <p>Addressing I/I makes capacity problems disappear. Indeed, mandatory and enforced roof leader disconnection, if applied across the City, could easily reduce peaking at the plant by 100%. Think of the flooding risk reduction and reduced costs at the plant (which we pay for in our Regional taxes). And, every connected roof in Kitchener costs all residents \$2,000 per year, each and every year. I was pleased to see that the City recently posted on FB not to flush wipes - that's the first time I've ever seen a public notice about our sewer systems.</p>	<p>Thank you again for your participation in this study.</p>
PIC 1			
Hayley	<p>July 11, 2022</p> <p>Question Tool</p>	<p>Our sanitary sewers are an untapped source of thermal energy, how might the City of Kitchener integrate wastewater heat recovery into the Integrated Sanitary Master Plan in co-operation with the Region and other cities? This exploratory report on wastewater heat recovery (prepared for WR Community Energy by KEB Engineering) includes thermal maps for Kitchener. How actionable are these recommendations? Link: https://wrcommunityenergy.ca/wp-content/uploads/2021/11/Waste-Water-Heat-Recovery-Report-FINAL.pdf</p>	<p>Response Issued July 18, 2022</p> <p>Thank you for your interest, and for mentioning the Wastewater Heat Recovery in Waterloo Region report.</p> <p>Wastewater heat recovery is on our radar. We have been working with the Region of Waterloo to identify opportunities for wastewater heat recovery. The Wastewater Heat Recovery in Waterloo Region report provides an overview of the sewer system and identifies the thermal heat recovery potential based on sewage flow. For those not familiar with wastewater heat recovery, it is the process of capturing heat from wastewater as it exits a building, and redirecting it for an alternate use in the building.</p> <p>The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider climate change impacts through this study. As part of that, we will consider the recommendations of this report as part of our study.</p>
Ian S	<p>July 13, 2022</p> <p>Forum Tool</p>	<p>Thank you for providing a good basis of design and opportunities for next steps. Stormwater and waste management is the unsung hero of a city! Some key issues for me coming out of this study is whether a cross-functional approach may be required to handle the new challenges of developing projects within tight restrictions of a densifying city. There are major synergies that would work for broader sections of the 2051 plan. We have acres of unused parking lots within the city boundary. These are massive water collecting basins which for one, have too many parking spaces allocated due to an outdated building code, and secondly, they are collocated to major energy and water consuming/waste producing businesses. These parking areas should be rethought for their energy production via solar carports, water collecting</p>	<p>Response Issued July 18, 2022</p> <p>Thank you for taking the time to share your feedback and thoughts.</p> <p>The City of Kitchener completed an Integrated Stormwater Master Plan in 2016. Through that plan, we identified locations for decentralized approaches to Stormwater Management. We received partial funding to implement the plan through the Government of Canada. Find out more about these Disaster Mitigation Adaptation Fund projects on our website.</p> <p>Some municipal sanitary systems incorporate hybrid centralized and decentralized approaches. Through hybrid approaches some municipalities have been able to:</p>

		<p>potential, redesign for added housing needs, and considered for larger, underground reservoirs to “pre-store” groundwater for use in irrigation, etc. This would tackle our energy transition, elevate and up-cycle housing and affordable housing, protect our water resources, drive down sprawl, and reuse existing space without a lot of added costs to the city. I know very little about wastewater management but could there be a way to distribute treatment facilities to remove such pressure on centralized systems? The 800km of piping under our roads seems like a glaring misuse of tax money to dig up roads, upgrade massive equipment and from my perspective, “do as we have done before”. A decentralized program would be interesting to send wastewater to numerous smaller facilities, use new technologies such as anaerobic digesters to create biofuels or electricity, and then send treated water into our massive aqueduct system for egress to water cycle. I agree with statement in section 2. This is a more complex problem than merely dealing with waste and water. There is a clear holistic approach needed to work toward integrating other aspects of the 2052 goals to make this work for the cities growth in a consistently resource constrained world. Great team at the table to work on a solution for this! Criteria is good for evaluation. It is at least a starting point to get work off the ground. I am very interested in understanding the holistic approach to this issue versus segregating it away as many engineering projects can do. There are so many services that are interconnected here when working on one of our largest utility requirements. As my comment above suggest, I believe that this should be a good opportunity to rethink space, rethink technology options and strive to build a framework that supports other key pillars of our cities 2052 goals to benefit people, business and our future generations.</p>	<ul style="list-style-type: none"> • match water treatment level to different service requirements; • recover resources within wastewater; and • reduce energy requirements of the sanitary system. <p>We are interested in hearing about innovative, progressive, and emerging ideas like these.</p> <p>We will develop alternative solutions in the next Public Information Center #2. Please keep in touch.</p>
<p>Norman Z</p>	<p>July 19, 2022 Forum Tool</p>	<p>I have reviewed the background information of your Integrated Sanitary Master Planning. I believe any alternative solutions should have the lowest impact on our natural environments. In this connection, the University of Waterloo has developed a completely green technology for water leak detection. This IoT detection system is battery-free, recyclable and maintenance-free (aquasensing.com). Please let us know if we can offer further support.</p>	<p>Response July 20, 2022: Thank you for providing your suggestion about green technology for water leak detection.</p> <p>The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider various alternative solutions for this study, including alternatives that seek to reduce negative impacts on the natural environment. The project team will look into your recommendation. Thanks for your offer of support. We will be in touch as needed.</p>
<p>Klas Bockasten</p>	<p>July 25, 2022 Forum Tool</p>	<p>The study should in my view include a further discussion and include details on the subject of "Sanitary Sewer Heat Recovery". This should include the installation of temperature monitoring systems to get a better understanding of the thermal profile that together with flows that are well known identify the renewable energy opportunities to support future developments in our city.</p>	<p>Response Issued July 26, 2022 Thank you for your interest in the study.</p> <p>Wastewater heat recovery is on our radar. We have been working with the Region of Waterloo to identify opportunities for wastewater heat recovery. The Wastewater Heat Recovery in Waterloo Region report provides an overview of the sewer system and identifies the thermal heat recovery potential based on sewage flow. For those not familiar with wastewater heat recovery, it is the process of capturing heat from wastewater as it exits a building, and redirecting it for an alternate use in the building.</p>

			The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider climate change impacts through this study. As part of that, we will consider the recommendations of this report as part of our study.
Ari Liso	July 29, 2022 Forum Tool	1. Engaging GRCA and stakeholders to acquire and better publicize the water resources along the grand river, tributaries and other water resources in areas of public use. For example, various springs are present along the banks of the grand but no public inventories of them (or their recharge areas) are publicly available. For effective scoping of such water resources and comprehensive planning i believe we need to integrate and better share both out inventory, knowledge and public access of various stakeholder data resources, essentially trying to reduce unknown unknowns.2. Rather than growth alone, I would also look at alternatives to reducing intensity rather than expanding to handle increased volume. Further, during the discussion and planning to expand current treatment infrastructure to cope with the additional volume, we should also seriously look at reducing the intensity of impact there as well. I think this is especially salient with regard to emerging contaminats such as microplastics, as well as contaminants with significant potential to have legacy effects like salt and phosphorous.3. I think Adaptive management is key to sustainability here. Not just considering today but establishing effective ongoing feedback and communication frameworks for Adaptive Management.	Response August 8, 2022: Thank you for taking the time to share your feedback and thoughts. The City is consulting with key stakeholders, such as GRCA, to gather information on the existing conditions within the study area. We will continue to engage with key stakeholders throughout the study to understand potential impacts of the project to the area. Our study is focused on the sanitary sewer collection system and does not include the storm sewer collection and treatment system. The improvements are required for the aging sanitary sewer infrastructure, and to accommodate future growth within the City of Kitchener. The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. As many of your comments relate to the treatment of stormwater, you may wish to review the Stormwater Master Plan (ISMP) completed in 2016. Information on how the City plans to handle water resource issues and contamination in the stormwater system can be found in the ISMP available at the following link: https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx
Fereidoun Rezanezhd Forum Tool	July 29, 2022 Forum Tool	How the City of Kitchener Integrated Sanitary Master Plan will contribute in reducing greenhouse gas (GHG) emissions in future, with the new exciting challenge in addressing climate change and Anthropogenic Greenhouse Gas (GHG) Emissions? Do you have any plan in improving the low impact development (LID)/green infrastructure in the City of Kitchener?	Response August 3, 2022: Thank you for your question on how the City is addressing climate change through this study.Our study is focused on the sanitary sewer collection system, and does not include the storm sewer collection and treatment system. The City of Kitchener completed an Integrated Stormwater Master Plan in 2016. Information about the plans for Low-Impact Development's and green infrastructure can be found in the Integrated Stormwater Master Plan (linked below).The goal of this project is to provide an efficient and reliable sanitary servicing system throughout the City limits. We will consider greenhouse gas emissions and climate change impacts through this study. Let us know if you have any additional suggestions or recommendations. Related Links Integrated Stormwater Master Plan - https://www.kitchener.ca/en/strategic-plans-and-projects/stormwater-master-plan.aspx
JR	August 8, 2022 Forum Tool	I believe feasible solutions should be included in the "City of Kitchener Integrated Sanitary Master Plan", regarding how City will deal with an almost 30% increase in population in the next 8 years, with respect to the impact on the environment and freshwater ecosystems (any improvements of LIDs/ponds, or installation of the new one). Additionally, it should be included projections on the cumulative effects of changing climate and the increase in urbanization; how they will impact the resilience and sustainability of sewer systems, and to what extent and how they will impact receiving water quality (despite the fact that it might not be the focus of the study, it is important to dedicate part	

		of the work to that). Although the focus of your study is on the sanitary sewer collection system, many related problems should not be overlooked - the relationships among them are immense. Additionally, in my opinion, City overlooked the novel problem - salinization of freshwater (aquifers and downstream ecosystems as a consequence of excessive use of deicing salts), especially because Grand River has been experiencing a significant increase in chloride concentrations (and electro conductivity). Even if this is not the focus of the study, such a problem should be addressed promptly. Do you have any plans to address that problem, if not in this particular study, then, in the near future?	
PIC 2			
Neighbourhood Detective	December 12, 2023 Forum	Hello, I'm still unsure whether areas of the city still on septic systems will be provided with sanitary services to connect to. Is this something under consideration?	Response provided December 14, 2023: Thank you for your comment. The Integrated Sanitary Master Plan does not include new sanitary sewers for areas currently serviced by septic systems. This is outside the scope of this study. We consider new sanitary services on a case-by-case basis while planning road reconstructions. As the City of Kitchener expands the sewer system, the costs to provide new services are taken into consideration. Please note that the City does not pay for work on private property. New services are built within the municipal right-of-way only. Any work needed to convert a private septic system to connect with a municipal sanitary service is the property owner's responsibility. Please let me know if you have any questions.
Barbara Robinson	December 18, 2023 Forum Tool	I only see a single comment here. That tells me that you have not achieved public consultation. Obviously, the timing of this PIC is not great - we generally avoid December.	Response provided December 20, 2023: Thank you for your interest and participation in this study. The City used a virtual format for both PICs through the City's Engage Kitchener platform. The Integrated Sanitary Master Plan is a City-wide study and of technical nature. Asynchronous virtual PICs makes it easier for participants to give input and share ideas over a much more flexible period. Participants have weeks to share feedback, rather than a single 2-3 hour in-person meeting. The format also offers the opportunity to engage from home or a nearby internet access point such as a community centre or library. It avoids travelling in potentially challenging weather conditions this time of year. Due to the high-level planning nature of Master Plans, they have historically received lower levels of engagement. Outcomes are less tangible than a capital project such as a new community centre or public park space planning. This master plan is not identifying new infrastructure to be built where none currently exists. Where existing infrastructure will undergo renewal or replacement, the City will engage with residents in the vicinity of the proposed work. This engagement will take place as more details become available through the design process. Receiving feedback on the sanitary master plan is important to us. The commenting period for this public information centre remains open until January 7th. The materials will remain available on the Engage Kitchener website. We will continue to accept comments from the public for the duration of the study. Thank you once again for your engagement. We look forward to hearing your feedback.
	December 18, 2023	Comments on City of Kitchener Master Plan PIC #2, December 2023. Barbara Robinson, resident, President of Norton Engineering Inc. The	Response provided December 20, 2023:

	<p>problem statement should not only include “management of sanitary infrastructure”, but management of sewage itself, e.g. leaking sewers, or Inflow and Infiltration. And not just the sewers and pumping stations, but the sewage itself. Please provide actual I/I numbers for Kitchener WWTP. Recall that this is calculated as total influent at WWTP minus sum of all billed water, with the sewer/watersheds rationalized to match. I calculated this once for the City and I/I was about 40%. Residents pay for this I/I on each and every monthly bill. It is preposterous not to invest in reducing it, in this era of residents really struggling to keep up with the costs of living. Developing a model will predict future flows (and will be out of date in 5 years unless it is regularly updated and re-calibrated – which is rare). It will do nothing to address existing I/I, of which the sewers are full (since there is no I/I program in Kitchener at all). A model cannot be considered a means of identifying I/I – since models are rife with errors. See Norton’s research online or on LinkedIn. Please note that flow monitoring of very large sewersheds does not lead to being able to pinpoint I/I – it is too specific to neighbourhoods (ago of homes, construction materials, soils, groundwater levels, quality of installation and inspection, etc.). Surface water infiltration is the least of the problems. Groundwater infiltration and inflow are. The City has no roof leader disconnection program. It is illegal, today, per your sewer use by-law, for residents to discharge rain water or groundwater to the sanitary sewer. The City is actually themselves reconnecting cellar drains (groundwater) to the sanitary sewer during reconstructions (example, Earl St.), which is in contravention of its own by-law. Each and every connected roof leader in Kitchener costs all residents \$2,000 (avg rainfall x sewage charge), each and every year, and increases risk of flooding for all. See “the sewer lady” on TVO’s the Agenda with Steve Paikin (July 2023): https://www.tvo.org/video/the-sewer-lady-on-how-to-avoid-flooding. Since roof leaders are illegal connections, it is baffling that the City has not addressed this already. The sewer rate increase is 7.1% again in the 2024 budget – how can we keep charging residents more while doing nothing to reduce the costs of the operation of the system? I/I becomes sewage as soon as it enters the sewers. There is no magical “I/I separator” at the headworks of the plant. I/I is the proximate cause of flooding – and reducing it will provide protection from peakier storms. When there is flooding, or when we need to expand the WWTP, we do not say, well, I/I is a big culprit here, but we don’t need to pay for it because it’s I/I. The cost of I/I is the cost of sewage, e.g. \$3.27/m3. The preferred solutions don’t address these essential issues in the sewer system. The environmental impacts of the flushing of deleterious materials into the sewer, the costs, and the increased risk to residents of basement backup, means this issue needs to be addressed. See https://kitchener.ctvnews.ca/plumbing-problem-kitchener-ont-engineer-pushing-to-change-canada-s-plumbing-code-1.6480544, July 2023. New subdivisions have been demonstrated to be leaking, often badly, across Ontario. Norton’s efficient and cost-effective solution of flow monitoring all new subdivisions to ensure conformance with allowable leakage stated in OPS standards has been adopted by municipalities across Ontario. Failure to adopt this forces existing</p>	<p>Thank you for your comments on inflow and infiltration (I/I). Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs.</p> <p>The goal of the programs is to reduce flows in the sanitary sewer system and improve the City’s understanding of the system’s state. This will allow the City to better assess the system’s condition and performance. Programs include:</p> <ul style="list-style-type: none"> • Rainfall & Flow Monitoring Program <ul style="list-style-type: none"> ○ This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information. • Computer Model Updates & Maintenance <ul style="list-style-type: none"> ○ This program will provide further improvements to the computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making. • Sanitary Trunk Sewer & Forcemain Investigation Program <ul style="list-style-type: none"> ○ This program enhances the City’s existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner. <p>Data collection will allow the City to better assess inflow and infiltration into the sanitary system. This alternative recommends programs to remove sources of strain on the system caused by:</p> <ul style="list-style-type: none"> • The inflow of excess water into sewer pipes. Inflow water comes from yards, roofs, drains, downspouts, and manhole covers. • The infiltration of excess water from the groundwater system. The water then enters the sewers. Infiltration occurs following large storm events that can trigger a rise in groundwater levels. <p>The following programs will be implemented based on available data as it becomes available:</p> <ul style="list-style-type: none"> • Inflow and Infiltration Reduction Program <ul style="list-style-type: none"> ○ This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows. • Hydrogen Sulfide Monitoring and Dosing Program <ul style="list-style-type: none"> ○ This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program
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		<p>residents to pay for I/I left by developers, in perpetuity. It is the municipality’s responsibility to protect residents from this unacceptable condition. See The Agenda with Steve Paikin in 2019: https://www.tvo.org/video/ontarios-leaky-sewer-problem Have you referenced the two new National Sewer Guidelines published by Standards Council of Canada? “Reducing the Risk of I/I in New Sewer Construction”, Robinson, Sandink and Engineers Canada, for Standards Council of Canada, 2019, Seed Document. Developed into a final Standard by BNQ, and “Mitigation of the Risks of Inflow and Infiltration in New Sanitary Sewer Systems”, BNQ, 2022. And “Developing an Efficient and Cost-Effective I/I Program”, Robinson and Sandink for Standards Council of Canada, 2021. This seed document is currently being developed into a final standard by BNQ. This master plan reads like one written in the early 2000s – without reference to the modern approaches to I/I which have been developed since then. Please confirm that CAN/CSA Z800-18 was also consulted. It contains details on private side I/I and ways to reduce this risk. Where are the details of a public education campaign? Apart from a very recent FB post about what to flush, I have never seen or heard media on how residents can operate and maintain their private sewer from the City. This is no longer good enough – it is clear by now that residents across Ontario clearly do not understand how to use their sewer. Norton’s public education campaign of “Sewers are NOT Trash Cans” will efficiently and cost-effectively address this, if accompanied by media and in-person information sessions. See CBC Radio, https://www.cbc.ca/player/play/2683773960 eight years ago - this is not new information. See also CBC Radio in June 2023, https://www.cbc.ca/player/play/2241426499736. I do not believe that the City has adequately addressed many of the issues that are germane to planning for future growth and capacity in the sewers.</p>	<p>would then recommend actions to remedy the high hydrogen sulfide levels.</p> <p>It is worth noting that this is a significant body of new work to undertake. It is also a very important body of work with a high potential return on investment. The City looks forward to initiating these efforts upon completing the master plan.</p>
Hugh Whiteley	December 20, 2023 Forum Tool	<p>Use of Demand Management in the design and operation of municipal sanitary-sewer systems has great potential to reduce present and future capital and operating costs. The importance of Demand Management has been recognized by the Region of York which has been using Demand Management to manage its Water and Wastewater Systems since 2011. The Region of York estimates that over the last 23 years the Region’s water conservation project has reduced water-supply consumption by 27 megalitres/day (equivalent to the daily water used by 135,000 people) and the Inflow and Infiltration Reduction Program has reduced sanitary-sewer flows by 22 megalitres/day (equivalent to wastewater flows from a population of 110,000) for an overall reduction of sanitary flows corresponding to a population increase of 245,000 people. The City of Kitchner can achieve similar benefits by making Demand Management a central policy emphasis in its current update of the Sanitary Master Plan. The City should follow the example set by the Region of York and establish a multiple decade reduction target for both water conservation and for I&I reduction with every five-year reporting progress being made to achieve the targets as set in the plan. Since in the Region of Waterloo Demand Management for water conservation is conducted by the Region of Waterloo and not the City of Kitchener the</p>	<p>Response provided December 22, 2023: Thank you for your comments on Demand Management and inflow and infiltration (I/I). As per your comment, the Region of Waterloo manages Kitchener’s water supply and demand. The Region is updating their Water Supply Strategy, which will look at sustainable water supply sources and water demands. More information is available on the Region’s website. Reduction of I/I is an important part of the Sanitary Master Plan. Slides 18-20 in the presentation summarize the strategies recommended for the City of Kitchener to begin defining and addressing I/I. This is covered under Alternative 4. This solution refers to a broad collection of programs. The goal of the programs is to reduce flows in the sanitary sewer system and improve the City’s understanding of the system’s state. This will allow the City to better assess the system’s condition and performance and to promote continuous improvement of the sanitary sewer system. Programs include: • Rainfall & Flow Monitoring Program • This program will manage all rainfall and sewer flow monitoring equipment and contracts. It will provide valuable data to the City. The data will identify how the sanitary system responds to storm events. The City will be able to target system improvements better with this information. • Computer Model Updates & Maintenance • This program will provide further improvements to the</p>

		<p>City of Kitchener Sanitary Master Plan will not contain water conservation policies. The Sanitary Master plan should, however, contain specific information on the Region's water conservation targets and should emphasize the importance of achieving these targets as an essential support for achieving success for the Sanitary Master Plan. In order to identify feasible targets for I&I reduction the first step is to estimate the current level of I&I flows. The City of Cambridge has successfully documented reduced I&I flows using this approach. In Cambridge reductions in infiltration into under-river crossings and reduction of improper sealing of joints in locations with high groundwater levels were important in achieving reduced I&I. Reference website for York Region Inflow and Infiltration York Region website Inflow and Infiltration York Region</p>	<p>computer model. It will simulate the sanitary sewer system and ensure the model is up to date with the latest data. The model can then be used for capital planning, operations and decision-making. • Sanitary Trunk Sewer & Forcemain Investigation Program • This program enhances the City's existing program, which inspects existing sewers. It will allow all larger sewers to be inspected by camera on a 10-year frequency to assess any issues in a timely manner. • Inflow and Infiltration Reduction Program • This involves the review of data collected as part of other programs. It would determine specific areas where inflow and infiltration is entering the sanitary system. The program would then recommend actions to remedy the source of additional flows. • Hydrogen Sulfide Monitoring and Dosing Program • This involves monitoring hydrogen sulfide levels in key locations in the sanitary sewer system. It will identify areas of high hydrogen sulfide within the system. The program would then recommend actions to remedy the high hydrogen sulfide levels Data collection through these programs will allow the City to better assess items such as inflow and infiltration into the sanitary system. These plans align with and will continue to implement the best practices from other Municipalities such as the Region of York and the City of Cambridge.</p>
		<p>Thanks for the fulsome answer. I suggest that in the Sanitary Master Plan the City of Kitchener set a specific date by which an initial report will be available specifying (1) the magnitude of existing I&I flows and (2) setting five year and twenty year targets for reduction in I&I flows.. As I noted York Region is already a decade into its twenty year I&I reduction program and is exceeding reduction targets. Similarly Cambridge has reported large reductions in its I&I flows from 32% in 2016 to 20% in 2020.as a result of their I&I reduction efforts.</p>	<p>No response required</p>

APPENDIX A.7

Indigenous Rights Holders / Communities

Mississaugas of the Credit First Nation

From: [Fawn Sault](#)
To: [Kielstra, David](#)
Cc: [Hohner, Paula](#); [Jean Hao](#); [Paul, Jeff](#); [Megan DeVries](#); [Adrian Blake](#)
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Wednesday, October 13, 2021 1:52:48 PM

Good Afternoon David,

Please let us know if there will be not only archaeology but natural heritage studies as well. The First Nation expects to be involved in all the field studies. I have included Megan DeVries and Adrian Blake from our Archaeology Unit. Please be sure to include them in all correspondence as their unit handles all the dispatching.

If you have any questions please feel free to reach out.

Miigwech,

Fawn Sault (she/her)
Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

From: Kielstra, David <David.Kielstra@stantec.com>
Sent: Wednesday, October 13, 2021 10:16 AM
To: Fawn Sault <Fawn.Sault@mncfn.ca>
Cc: Hohner, Paula <Paula.Hohner@stantec.com>; Jean Hao <Jean.Hao@kitchener.ca>; Paul, Jeff <jeff.paul@stantec.com>
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hello Fawn,

Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan. The project includes the City of Kitchener limits and will include an archaeological and heritage review using available documentation. The background review will be considered as part of the identification of potential projects for the Master Plan and their evaluation as part of the Municipal Class Environmental Assessment process.

The Project Team will notify the Mississaugas of the Credit First Nation (MCFN) if an Archaeological Assessment is required. An electronic copy of technical studies will be provided to your email address upon project completion.

We look forward to ongoing consultation with MCFN as the study progresses. Should you have any

questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Fawn Sault <Fawn.Sault@mncfn.ca>

Sent: Friday, September 10, 2021 3:58 PM

To: Kielstra, David <David.Kielstra@stantec.com>

Cc: Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>

Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hi David,

Thank you for the notification. Please let me know if there are any archaeological or environmental surveys required for this study or if this is something that will be determined once you all decide where you need the infrastructure?

Miigwech,

Fawn Sault (she/her)
Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

From: Kielstra, David <David.Kielstra@stantec.com>

Sent: Thursday, September 2, 2021 11:10 AM

To: Fawn Sault <Fawn.Sault@mncfn.ca>

Cc: Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>

Subject: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hello Fawn Sault,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached letter and Notice of Study Commencement for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec

200-835 Paramount Drive

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November 25, 2021

VIA EMAIL

Jean Hao, P.Eng., PMP, City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3

Dear Jean Hao, P. Eng., PMP

RE: MCFN Response to City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study Notice of Study Commencement

Confirmation of Receipt

I am writing on behalf of the Mississaugas of the Credit First Nation (“MCFN”) to acknowledge that we have received your above named communication, dated September 2, 2021.

Outline of MCFN Rights and Territory

In 1792, the Crown and MCFN entered into Between the Lakes, No. 3 (1792) regarding the lands in which your project is situated.

The Mississaugas of the Credit First Nation are the descendants of the “River Credit” Mississaugas. The undisputed Territory of the MCFN is defined as a Territory commencing at Long Point on Lake Erie thence eastward along the shore of the Lake to the Niagara River. Then down the River to Lake Ontario, northward along the shore of the Lake to the River Rouge east of Toronto then up that river to the dividing ridges to the head waters of the River Thames then southward to Long Point, the place of the beginning. Our Territory encompasses the lands and waters that were used and occupied by our Ancestors. Territories are usually large tracts of land that reflect the breadth required for seasonal activities and habitation and changes in those movement patterns through time. Through Treaties with the Crown, MCFN agreed to share our Territory with newcomers. However, not all of MCFN’s Territory has been dealt with through a Treaty.



With the exception of a small part of the Credit River, our Treaties with the Crown did not deal with the water parts of our Territory. We have not agreed to share any part of our waters with settlers. We formally gave notice to the Crown of this claim in 2016. We note that any lands that have been artificially created on our waters have also not been dealt with by any Treaty.

Like our ancestors before us, we continue to use the lands, waters, and watershed ecosystems within our Territory for a variety of livelihood, harvesting, ceremonial and spiritual purposes. We have always exercised governance functions and stewardship in order to protect our Territory, conserve the fish and wildlife that depend upon it, and ensure its ongoing ability to sustain our people. We assert that our Aboriginal and treaty rights fundamentally entitle us to continue to act as stewards of our Territory, to be involved in decisions that affect it, and to participate in the ongoing, responsible management of the resources it provides.

Duty to Consult and Accommodate

As you will know, the Crown has a constitutional duty to consult and accommodate MCFN in respect of any decisions that might affect its asserted or proven Aboriginal and/or Treaty Rights. We expect that, consistent with the Crown's constitutional duty, no approval should be issued to this project until MCFN has been sufficiently consulted and accommodated. Nothing in this letter shall be construed as to affect our Aboriginal and/or Treaty Rights and hence shall not limit any consultation and accommodation owed to MCFN by the Crown or any proponent, as recognized by section 35 of the Constitution Act, 1982.

MCFN has the right to free and informed consent prior to the approval of any project or any planning decision adversely impacting its Territory and to benefit economically from resource development within its Territory.

MCFN has formed the Department of Consultation and Accommodation ("DOCA") to represent its interests in consultation and accommodation matters. It is DOCA's mandate to ensure that we are directly involved in all planning and development that impacts the integrity of our Territory. In this regard, DOCA will assess and help alleviate impacts on our rights, land claims, and ways of life by building relationships with governments and private sector proponents. We share a mutual interest in ensuring that projects in the Territory are planned, reviewed, and developed in a manner which ensures healthy communities, ecological protection, and sustainable development for present and future generations in the Territory.



DEPARTMENT OF CONSULTATION AND ACCOMMODATION

Mississaugas of the Credit First Nation
4065 Hwy #6, Hagersville, Ontario NOA 1H0



Phone: (905) 768-4260



MCFN is not opposed to development, but MCFN must to be involved in development decision making. MCFN has a deep connection to its Territory and we have a stewardship responsibility for our land. By engaging with us, a project proponent can learn our perspective on how to care for this land and we can work together to shape the project to mitigate damaging effects to our land and perhaps even work to improve our environment. MCFN is the only party who shall determine whether there are impacts to our Aboriginal and treaty rights.

One of the ways we require proponents to engage with us is in providing transparency during the environmental survey and archaeological assessment process. The best way to accomplish this is by having Field Liaison Representatives (“FLRs”) on location while fieldwork is occurring, who can ensure that the Nation’s special interests and concerns are respected and considered during fieldwork. The cultural and natural resources in question are part of MCFN’s territory and heritage and it is our responsibility to ensure their protection, on behalf of the Nation. MCFN’s stewardship of its territory extends through the life of any development project and beyond.

In the spirit of collaboration and relationship building, MCFN encourages the City of Kitchener to consider use of MCFN owned businesses in the execution of this project. For further information please contact Christopher Lefebvre, Mississaugas of the Credit Business Corporation.

DOCA Project Registration

DOCA has completed an initial intake review of the project communication you have provided. This file has been assigned DOCA Project 2021-0864 ; please use this number in all future communications.

We respectfully ask you to immediately notify us if there are any changes to the project.

Referral to DOCA Units

Following DOCA’s initial intake review of the project communication, the file has been referred to the following DOCA Units for additional follow-up.

	Unit Identification	Primary Contact	Email Address
✓	Archaeology	Adam LaForme	adam.laforme@mncfn.ca
✓	Cultural/Historical	Darin Wybenga	darin.wybenga@mncfn.ca
✓	Environment	Fawn Sault (Temp)	fawn.sault@mncfn.ca
	FLR Participation	Adam LaForme	adam.laforme@mncfn.ca
	Governance	Katelyn LaForme	katelyn.laforme@mncfn.ca
	Economic Development	Christopher Lefebvre	clefebvre@mncbc.ca

If you have not been contacted by the indicated DOCA Units within fourteen days following receipt of this letter, please let me know.



Request for Missing Information

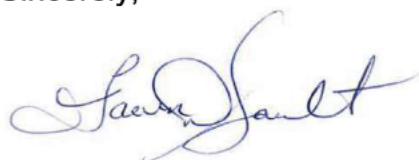
In order to proceed with our follow-up review, we ask you to ensure that all available information relating to the project has been transmitted to us. We have identified the following general information as missing from your initial project communication:

Outstanding Project Information	
	Name of person or body undertaking the action or decision.
	Contact information for the person or body undertaking the action or decision.
✓	List of documents pertaining to the proposed action/decision that are available for MCFN to review.
✓	Description of what other information is expected to become available before the proposed action/decision is undertaken.
✓	Deadlines or filing dates pertaining to the action/decision.
✓	The Crown or Municipal review/ approval that is required for the project.
✓	How the proposed action or decision may affect and/or benefit MCFN, its rights and territory.

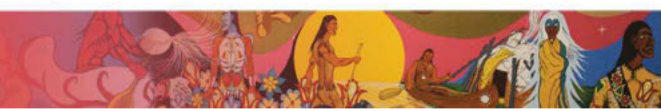
Closing

We ask that you respond with the above requested information within fourteen days following receipt of this letter. We thank you in advance for your attention to our requirements and we look forward to working with you further to shape the planning for development in our Territory.

Sincerely,



Fawn Sault
Consultation Coordinator
fawn.sault@mncfn.ca





Stantec Consulting Ltd.
200-835 Paramount Drive, Stoney Creek ON L8J 0B4

December 13, 2021
File: 165640334

Attention: Fawn Sault, Consultation Coordinator

Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
4065 Highway 6, Hagersville ON, N0A 1H0
By email: Fawn.sault@mncfn.ca

Dear Fawn Sault,

**Reference: City of Kitchener – Integrated Sanitary Master Plan
DOCA Project #2021-0864**

Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan (**DOCA Project 2021-0864**). The additional information that you sent on November 25, 2021 regarding your Indigenous and Treaty rights is appreciated. In our last correspondence with your community on October 13, 2021, our team identified that a background review was being undertaken to assist with identifying potential projects for the Master Plan. An extract of the background review is provided as an attachment.

The background review considered the areas that you mentioned in your email, including:

Environment: A desktop-level review was completed to identify potentially sensitive landscapes and features within the City of Kitchener boundaries, as identified in mapping sources from the City of Kitchener, Region of Waterloo and provincial mapping databases. Natural features are predominately located along the Grand River, as well as ravines, valleylands, and woodlots. Areas identified as significant wildlife habitat are located near Sportsworld Drive and west of Homer Watson Boulevard near Highway 401, Doon Valley and along the Grand River. Natural areas, sensitive habitats, sourcewater protection areas, and land use designations such as “Protected Countryside” and “Prime Agricultural Areas” will be reviewed in relation to potential projects to determine if fieldwork or additional analysis may be required.

Cultural/Historical: A desktop review of built cultural heritage and cultural heritage landscapes was prepared based on City of Kitchener Official Plan Cultural Heritage Resource Mapping, as well as the *Cultural Heritage Landscapes Study (2014)* which identified 55 Cultural Heritage Landscapes in the City of Kitchener. The relationship of potential projects will be considered in relation to locations of these built cultural heritage and cultural heritage landscapes.

Archaeology: The *Region of Waterloo Archaeology Facilities Master Plan (1989)* included a Region-level scan of archaeology potential. The document will be reviewed once alternatives are identified regarding proximity to these identified areas of archaeological potential. Recommendations for further archaeological assessment are to be determined.

The background review will be considered as part of the evaluation of potential projects as part of the Master Planning Process, as outlined in Appendix 4 of the *Municipal Class Environmental Assessment (MCEA) document* (October 2000, as amended in 2015). This study will address Phases 1 and 2 of the MCEA process and will form the basis for the recommended Schedule B infrastructure projects. Should potential projects require environmental, cultural/historical or archaeology fieldwork, the contact information you provided will be used to engage your community to determine your interest in participating.

Reference: City of Kitchener – Integrated Sanitary Master Plan DOCA Project #2021-0864

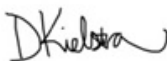
Thank you also for your outstanding project information table. Please see responses below to the areas identified:

Requested Item	Response
Description of what information is expected to become available before the proposed action/decision is undertaken	A brief presentation slide deck has been prepared at this early stage of the project which provides an overview and key milestones. Comments are welcome at any time throughout the project.
List of documents	Key documents anticipated to become available include the Public Information Centre materials and the Master Plan. You will be notified when these documents are available for review and comment.
Deadlines or filing dates pertaining to the action/decision	The Master Plan will be prepared at the end of the project by the end of 2022 and circulated for a 30-day review period.
The Crown or Municipal review/approval required	This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the <i>Ontario Environmental Assessment Act</i> . The EA Act is administered by the Minister of the Environment, Conservation and Parks.
How the proposed action or decision may affect and/or benefit MCFN, its rights and territory	The Master Plan will consider the natural, social, and economic environments through the background review and evaluation process. A preferred solution will be established to inform capital infrastructure planning related to the existing and future sanitary system (sanitary sewers, pumping stations, etc.) following a technical review of alternatives with input received from agencies, Indigenous communities, and stakeholders. Individual sanitary system projects and their impacts to rights or territory are not yet known, however evaluation criteria of the sanitary system will consider new planning policies, growth projections and existing infrastructure needs, as well as the interests you identified to plan for healthy communities, ecological protection, and the continued provision of sanitary services for the community.

If you are interested in setting up a subsequent teleconference to discuss the project, please let us know.

Regards,

Stantec Consulting Ltd.



David Kielstra MA, EP, MCIP, RPP
Environmental Planner
Phone: 905 381 3247
Fax: 905 385 3534
David.Kielstra@stantec.com

Attachment: Project Overview Presentation; Background Review Text - Environmental

c. Jean Hao, Nick Gollan, City of Kitchener
Jeff Paul, Faiz Bhatia, P. Hohner, Stantec Consulting Ltd.

CITY OF KITCHENER INTEGRATED SANITARY MASTER PLAN – TECHNICAL MEMO #1: BACKGROUND REVIEW

Desktop Review
November 8, 2021

2.4 NATURAL HERITAGE ENVIRONMENT

A review of existing environmental conditions is undertaken during the Master Plan/Class EA process in order to help inform the development and evaluation of alternative solutions. This includes the existing socio-economic environment, natural heritage and cultural heritage environments, in addition to technical reviews and modeling of the wastewater infrastructure systems.

2.4.1 Archaeological Resources

It is a requirement under the Municipal Class EA planning process to consider archaeological resources through the evaluation of alternative solutions. Much of the study area may retain archaeological potential; however, the extent of this potential is currently unknown. The *Region of Waterloo Archaeology Facilities Master Plan* (1989) provides a Regional-level scan of archaeology potential. The document will be reviewed once alternatives are identified to consider the proximity of potential projects to areas of archaeology potential. Recommendations for further archaeological assessment will be made upon the identification of project study areas, with reference to the Ministry of Heritage, Sport, Tourism, and Culture Industries' (MHSTCI) *Criteria for Evaluating Archaeological Potential checklist*.

2.4.2 Built Cultural Heritage and Cultural Heritage Landscapes

It is also a requirement under the Municipal Class EA planning process to consider cultural heritage resources through the evaluation of alternative solutions. The City has a rich and diverse cultural history seen through its Built Cultural Heritage Resources, and a number of Cultural Heritage Landscapes, some of which have been identified on the City's Municipal Register of Cultural Heritage Properties. The City of Kitchener Municipal Heritage Register includes Part IV (individually designated properties), Part V (heritage conservation district) properties, and Municipal Heritage Register- listed properties. The City of Kitchener *Cultural Heritage Landscapes (CHL) study* (2014) identified 55 Cultural Heritage Landscapes identified in Appendix D of the CHL report. Of these, the plan identifies specific parks and open areas, cemeteries, transportation corridors, heritage estates, neighbourhoods, and other properties such as commercial and industrial sites with historic interest among them.

The City of Kitchener Official Plan includes a Cultural Heritage Resources Map (Map 9) which identifies four Heritage Conservation Districts (HCD) primarily near the city centre. Heritage Corridors are located between HCDs which provide linkages. The Grand River is identified as a Canadian Heritage River and Cultural Heritage Landscapes are also identified on the map at six properties throughout the city.

These reports and plans will be reviewed once alternatives are identified to consider the proximity of projects to areas of identified cultural heritage resources. Upon the identification of project study areas, screening of potential cultural heritage resources will be undertaken, with reference to the MHSTCI's *Criteria for evaluating potential for Built Heritage Resources and Cultural Heritage Landscapes*. Recommendations for further study will be made based on the cultural heritage screening results.



CITY OF KITCHENER INTEGRATED SANITARY MASTER PLAN – TECHNICAL MEMO #1: BACKGROUND REVIEW

Desktop Review
November 8, 2021

2.4.3 Natural Heritage

The City of Kitchener municipal boundaries are located within the Natural Heritage System (NHS) included in the ROP. The City of Kitchener Official Plan (2014) must adhere to Regional and local land use policies including the NHS. NHS features are defined as “Landscape Level Systems”, “Core Environmental Features” and “Supporting Environmental Features”, and the linkages between them as components of the Greenland Network. (ROP, Chapter 7 and Map 4). These are defined below with respect to the City of Kitchener.

While the policies do not always preclude development in these areas, they are intended to protect them from adverse impacts of development by allowing limited, compatible forms of development.

2.4.3.1 Significant Natural Areas

Landscape Level Systems consist of Significant Valleylands, Environmentally Sensitive Landscapes, Provincial Greenbelt Natural Heritage System, Regional Recharge Areas, and the Southwest Kitchener Policy Area, as illustrated on the ROP Map 4.

Significant Valleylands are primarily located along the Grand River, as shown on ROP Map 4. A Regional Recharge area and the Southwest Kitchener Policy Area are located in the southwest of the City of Kitchener. There are no Provincial Greenbelt Natural Heritage System features in the City of Kitchener.

The CoK Official Plan Land Use Descriptions (Map 3) and the Natural Heritage System (Map 6) identifies “Landscape Level Systems” such as significant valleys, environmental sensitive landscapes, as well as “Kitchener Core Environmental Features”.

Core Natural Heritage features are predominately along the Grand River and areas such as ravines and other valleylands. Region Core Environmental Features are also shown in areas of the city associated with woodlots and watercourses.

Significant Wildlife Habitat areas and Significant Landforms are illustrated on Map 6. Areas of significant wildlife habitat are located near the Sportsworld Drive interchange in south Kitchener and to the west of Homer Watson Boulevard near Highway 401, Doon Valley, and along the Grand River. Ecological Restoration Areas are identified along watercourses, most of which are the central portions of the city associated with watercourses.

A portion of the southwest of the City is identified as “Protected Countryside” and “Prime Agricultural Area” (ROP, Map 7 and Map 7a). An area of Prime Agricultural Land is located in the Southwest of the City of Kitchener boundaries. The Official Plan map notes that the “exact location of Countryside Line” is yet to be determined. A portion of Countryside is located in the Southwest of the CoK boundaries. Protected Countryside is defined in the Land Use section.



CITY OF KITCHENER INTEGRATED SANITARY MASTER PLAN – TECHNICAL MEMO #1: BACKGROUND REVIEW

Desktop Review
November 8, 2021

2.4.3.2 Source Water Protection

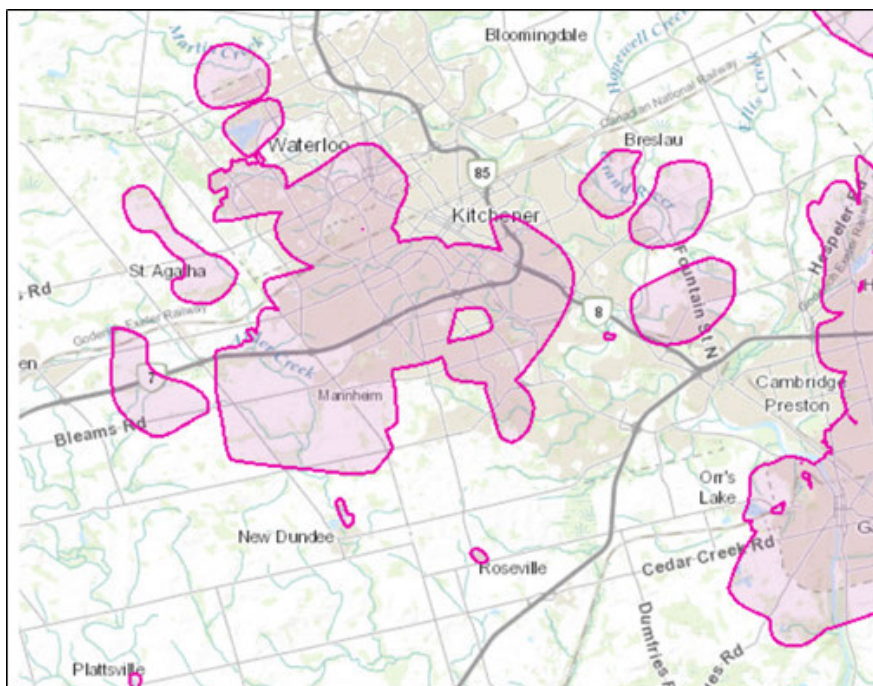
Source Water Protection areas for the City of Kitchener are identified in the ROP (Maps 6a, 6f, 6g) and Map 8 of the Kitchener Official Plan.

- Surface Water Intake Protection Zones are located in the southwest of the City of Kitchener, primarily encompassing the area between Fairway Road and the Grand River.
- Wellhead Protection Sensitivity Areas are associated with wells in the City of Kitchener. Municipal Wells are located along the Grand River east of Lackner Boulevard, near the Fairway Road North Bridge over the Grand River. Most other wells are located West of King Street near Westmount Road, Fairview Road/Manitou Drive, east of Huron Road, and near Ottawa Street and the Conestoga Parkway.
- A Southwest Kitchener Policy Area is included near Fischer Hallman Road and New Dundee Road which will include a Regional Recharge area with borders to be determined.

The Grand River Source Protection Plan also applies to the study area. In accordance with Ontario's *Clean Water Act (CWA)*, the Region of Waterloo has enacted policies through the Grand River Source Protection Plan (SPP) to protect groundwater sources within the Region. An update of the Grand River SPP came into effect February 3, 2021. The SPP policies work to reduce risk by regulating proposed and existing activities which have been identified as posing significant threats to drinking water safety. Depending on the hydrology and geology of an area, as well as potential risks posed by activities onsite, different policies under the SPP may apply to the Study Area.

Figure 2-1 identifies an excerpt from the Grand River Source Protection Plan policy mapping tool. The tool identifies groundwater sensitive areas predominately along the Grand River and in the west and southwest of the City.

Figure 2-1: Grand River Source Protection Policy Viewer Extract (groundwater)





City of Kitchener
Integrated Sanitary
Master Plan
Municipal Class EA

Project Overview
Slides



Agenda

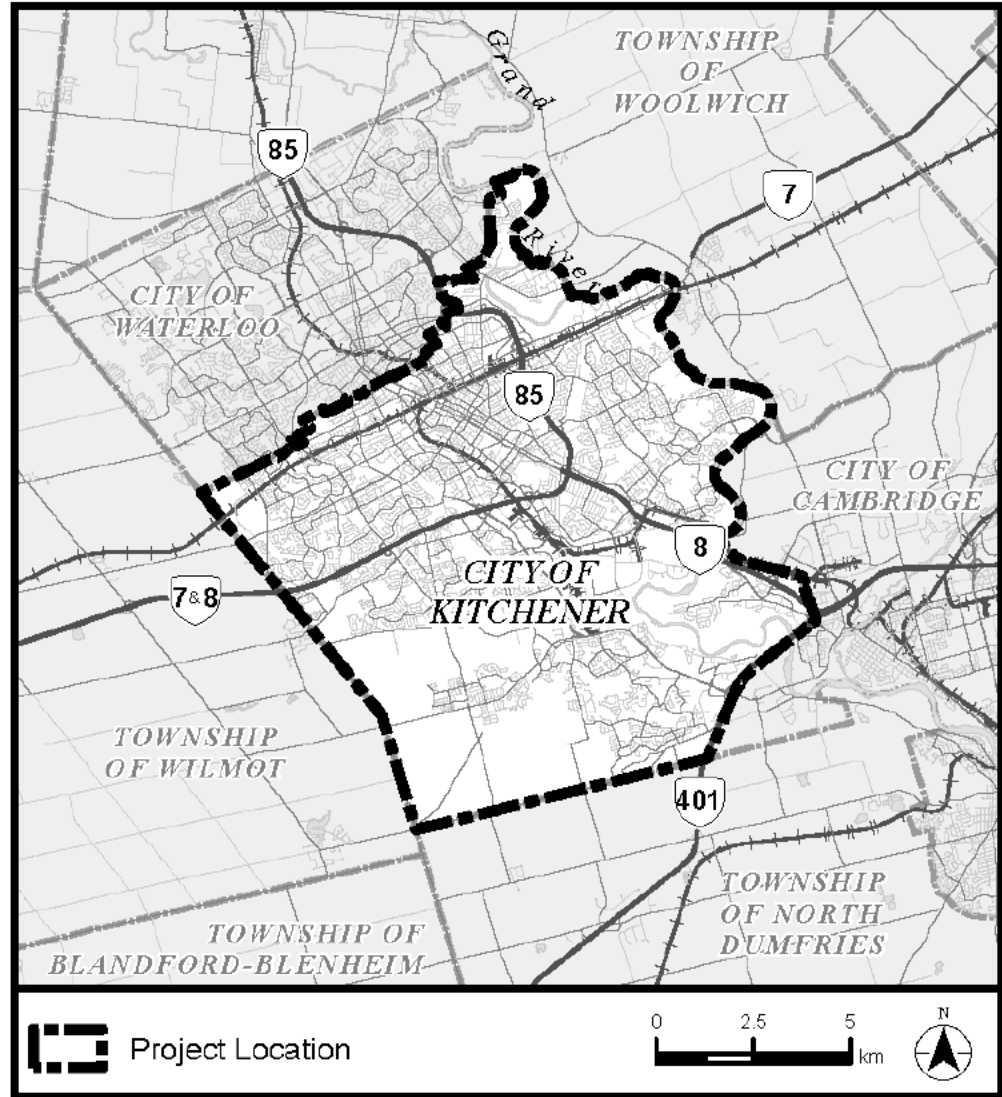
1. Project Overview
2. Study Area
3. Master Plan Process
4. Existing Conditions
5. Project Schedule & Next Steps
6. Contact Information

Project Overview

- The **sanitary system** refers to the infrastructure necessary to receive, process, and manage wastewater within the City of Kitchener.
- The infrastructure includes pipes, sewers, and associated sanitary pumping stations.
- The Master Plan study commenced on September 2, 2021.
- The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in the City of Kitchener.

Study Area

The project team will be consulting the Region of Waterloo and adjacent communities within the Region.



Master Plan Process

This study will be completed as a Master Plan under the Municipal Class Environmental Assessment process, as outlined under Section A.2.7 and Appendix 4 of the EA document.

Key Activities

- Develop a problem/opportunity statement
- Background review of existing conditions
- Assessment of alternative solutions
- Identification of a preferred alternative solution following technical review and input received from the public, stakeholders, Indigenous communities, and agencies
- Prepare the Master Plan report and 30-day review

Existing Conditions

Background reviews will consider:



Technical Environment

- Maintenance, capacity and infrastructure investments needed
- Population and growth planning



Natural Environment

- Environmentally Sensitive Areas and species at risk habitat

Existing Conditions



Cultural Heritage

- The City of Kitchener heritage inventories, reports and mapping will be reviewed in relation to potential projects. Additional investigations may be required depending on the background review.



Archaeology Assessment

- A desktop review will be conducted once projects are identified to determine the level of archaeological assessment required for this project. Recommendations for further assessments will be provided.

Project Schedule & Next Steps



Notice of Study Commencement (Sep 2, 2021)

This project is underway



Phase 1 Consultation

The consultation is open for feedback on your priorities, interests, and the objectives of this project



Phase 2 Consultation

This consultation is open for feedback on the proposed alternative solutions and recommendations



Final Report (2022)

The consultation is complete and the final outcomes are documented on this page

Let us know how you wish to participate in this process

Thank you!

Contact information for the project team is provided below:

Jean Hao, P.Eng., PMP

Design & Construction Project Manager

Utility Planning and Programs

City of Kitchener

Phone: 519-741-2200 ext. 4156

TTY: 1-866-969-9994

Email: Jean.Hao@kitchener.ca

Jeff Paul, P.Eng.

Project Manager

Stantec Consulting Ltd.

600-171 Queens Avenue

London ON N6A 5J7

Phone: 519-319-5806

Email: Jeff.Paul@stantec.com



From: [Lang, Sarah](#)
To: mark.laforme@mncfn.ca
Cc: [Hohner, Paula](#); [Jean Hao](#); [Paul, Jeff](#)
Subject: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Friday, July 8, 2022 10:13:00 AM
Attachments: [Kitchener Integrated Sanitary Master Plan - Notice of Virtual PIC 1.pdf](#)
[let_kitchener-ISMP_PIC1_FirstNations_MCFN.pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

Stantec



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Jean Hao, P.Eng., PMP
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City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

July 8, 2022

Attention: Mark Laforme

Consultation Manager
Mississaugas of the Credit First Nation
4065 Highway 6 North
Hagersville, ON N0A 1H0
mark.laforme@mncfn.ca; doca.admin@mncfn.ca

Dear: Mark Laforme,

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

The Master Plan will review the existing conditions, develop an assessment of alternative solutions for sanitary servicing, and identify the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative will be identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website (<https://www.engagewr.ca/sanitarymasterplan>) to present the background information on the study. The PIC materials will be available on the City's Engage Kitchener website starting on July 8, 2022.

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by August 8, 2022. If you wish to discuss this project or

July 8, 2022

Attention

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

Please communicate any concerns or questions related to this project to the undersigned.

Regards,



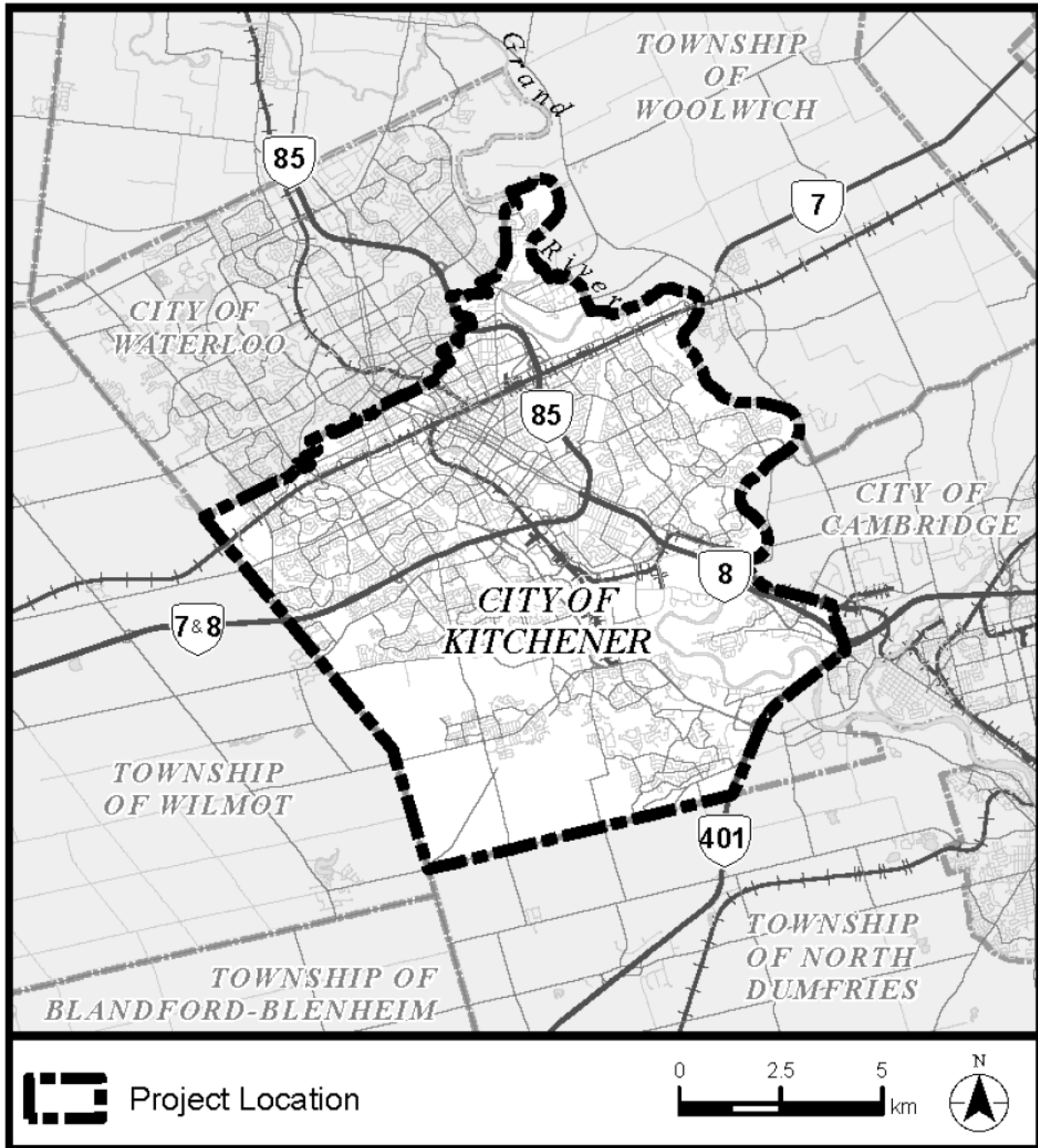
Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Lang, Stantec Consulting Ltd.



Study Area Map



From: [Sarah Anderson](#)
To: [Abby LaForme \(Abby.laforme@mncfn.ca\)](#); [Mark LaForme](#); [Adam LaForme](#); [Samantha Brickman](#); [Nick Gollan](#)
Subject: City of Kitchener SSU / Mississaugas of the Credit First Nation engagement meeting
Start: Tuesday, March 28, 2023 10:00:00 AM
End: Tuesday, March 28, 2023 12:00:00 PM
Location: Microsoft Teams Meeting
Attachments: [20230320_DMAF Project Summary.pdf](#)

This is the next biannual meeting between the City of Kitchener's Sanitary and Stormwater Utility and the Mississaugas of the Credit First Nation Department of Consultation and Accommodation to discuss the City of Kitchener's stormwater management projects funded in part through the Government of Canada's Disaster Mitigation Adaptation Fund.

We welcome MCFN DOCA's feedback and contributions to this proposed meeting agenda:

1. Brief Integrated Sanitary Master Plan Engagement update
2. General Disaster Mitigation Adaptation Fund project updates
3. Capacity funding for document review
- * Stage 1 archaeology draft reports for review (see attached email)
- * Draft chart of relevant documents for review (to be shared soon)
4. Invitation to meet with other City teams during these meetings. Other Kitchener teams are interested in engaging with MCFN DOCA on these topics:
 - * Parks and Open Spaces regarding their Places and Spaces parks and open space strategy and the DMAF Walter Bean Trail project
 - * Facilities Maintenance and Community Services for their Schlegel Park Pool facility project

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting <https://teams.microsoft.com/l/meetup-join/19%3ameeting_Nj14ZjNmODUtM2VhMC00ZTVhLWE3NWEtMzRkNDY3NmJmZGRk%40thread.v2/0?context=%7b%22Tid%22%3a%22c703d791-53f6-43a5-9255-622eb33a1b0b%22%2c%22Oid%22%3a%227647a165-3651-40b4-a23f-0e5928c0bd6b%22%7d>

Meeting ID: 270 061 356 918
Passcode: WEGnGu

Download Teams <<https://www.microsoft.com/en-us/microsoft-teams/download-app>> | Join on the web <<https://www.microsoft.com/microsoft-teams/join-a-meeting>>

Learn More <<https://aka.ms/JoinTeamsMeeting>> | Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=7647a165-3651-40b4-a23f-0e5928c0bd6b&tenantId=c703d791-53f6-43a5-9255-622eb33a1b0b&threadId=19_meeting_Nj14ZjNmODUtM2VhMC00ZTVhLWE3NWEtMzRkNDY3NmJmZGRk@thread.v2&messageId=0&language=en-US>

From: [Micks, Sarah](#)
To: mark.laforme@mncfn.ca; doca.admin@mncfn.ca
Cc: [Paul, Jeff](#); [Jean Hao](#)
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2
Date: Wednesday, December 6, 2023 4:30:00 PM
Attachments: [not_kitchener_sanitaryMP_PIC2_AODA_.pdf](#)
[let_kitchener-ISMP_PIC2_MCFN.pdf](#)

Good Afternoon,

Please find the attached letter and Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5



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Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

December 6, 2023

Mark Laforme
Mississaugas of the Credit First Nation
4065 Hwy 6 North
Hagersville, ON N0A 1H0

Dear Mark Laforme,

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 2
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

The Master Plan has reviewed the existing conditions, developed an assessment of alternative solutions for sanitary servicing, and identified the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative has been identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

A second Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website (www.engagewr.ca/sanitarymasterplan) to present the recommended solutions. The PIC materials will be available on the City's Engage Kitchener website starting on December 6, 2023.

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by January 7, 2024. If you wish to discuss this project or setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

December 6, 2023

Attention

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

Please communicate any concerns or questions related to this project to the undersigned.

Regards,



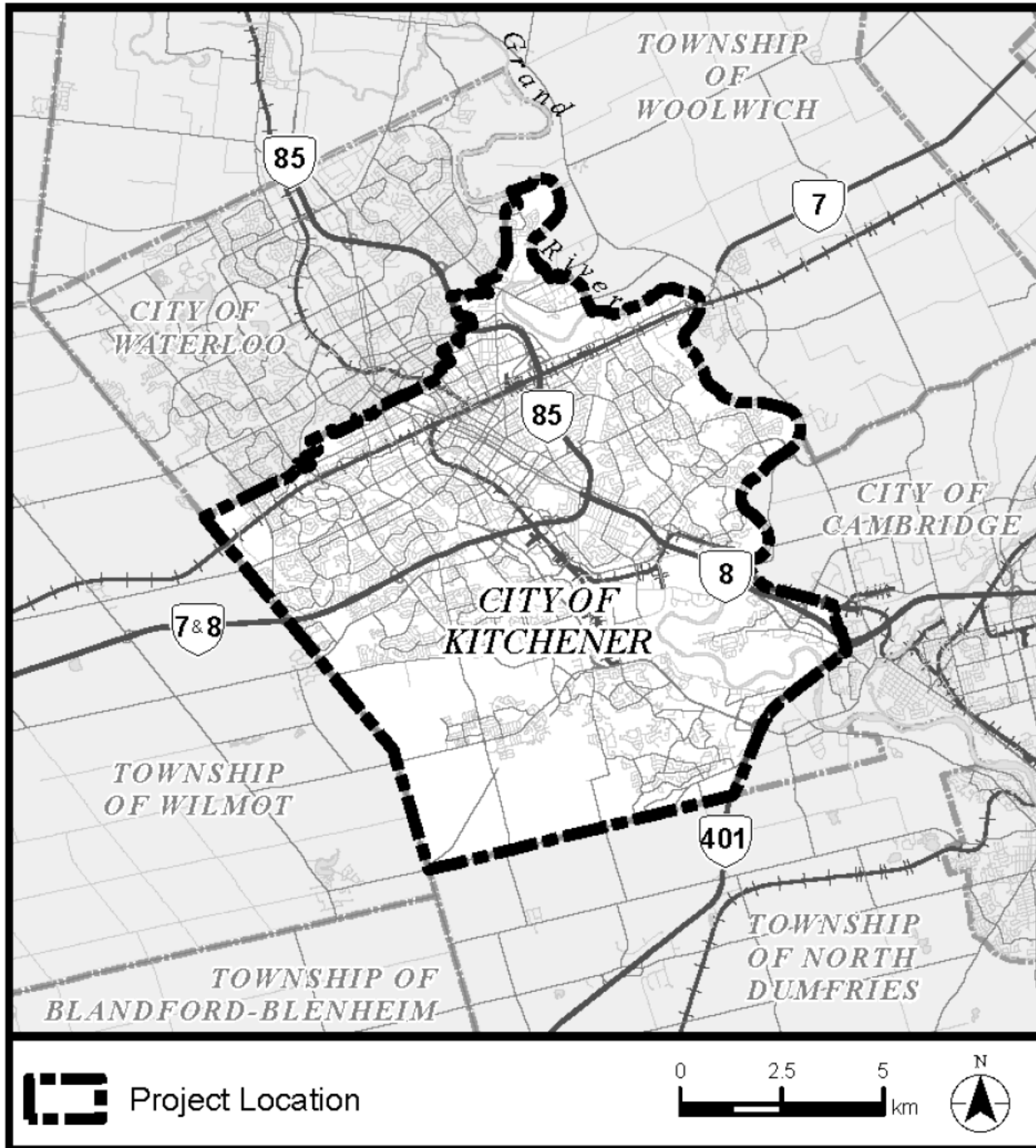
Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Micks, Stantec Consulting Ltd.



Study Area Map



From: [Sarah Anderson](#)
To: [Samantha Brickman](#); [Osama Siddiqui](#); [Bob Cheyne](#); [Brent Garcia](#); [Ankush Bhola](#); [Abby LaForme](#); [Bibiana Egbunike](#); [Nick Gollan](#); [Michaela Jennings](#)
Cc: [Chris Nechacov](#); [Mark LaForme](#); [Aaron Gingerich](#); [Pacifique Nicholas](#)
Subject: MCFN - DMAF 52906 Kitchener engagement meeting
Attachments: [2024-02-09 MCFN DMAF Agenda.docx](#)
[Laurel Creek Concept Restoration Plans.pdf](#)
[Strasburg Creek Concept Restoration Plans.pdf](#)
[Meadowlane Park - Early Preferred Option.pdf](#)
[ProposedSanitaryProjects.pdf](#)

Good morning Abby – I have attached a proposed meeting agenda and supporting documents. Because of the short turnaround before we meet, we’ve provided extra time on the agenda for each item, assuming you may not have time to review materials in advance.

Looking forward to connecting with you online on Friday.

Sarah

Hi Abby,

Thanks for this opportunity to engage with the Mississaugas of the Credit First Nation Department of Consultation and Accommodation. Can you share this invitation with your team?

We will send a proposed agenda and files for review shortly.

Have a great day,

Sarah

Microsoft Teams meeting

Join on your computer, mobile app or room device

Click here to join the meeting <https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDNjMThhMTYtZjg0Zi00YmYwLWEyOTAtYzhjOTY2ZTljNDZm%40thread.v2/0?context=%7b%22Tid%22%3a%22c703d791-53f6-43a5-9255-622eb33a1b0b%22%2c%22Oid%22%3a%227647a165-3651-40b4-a23f-0e5928c0bd6b%22%7d>

Meeting ID: 258 065 146 052
Passcode: joZYtW

Download Teams <<https://www.microsoft.com/en-us/microsoft-teams/download-app>> | Join on the web <<https://www.microsoft.com/microsoft-teams/join-a-meeting>>

Learn More <<https://aka.ms/JoinTeamsMeeting>> | Meeting options <https://teams.microsoft.com/meetingOptions/?organizerId=7647a165-3651-40b4-a23f-0e5928c0bd6b&tenantId=c703d791-53f6-43a5-9255-622eb33a1b0b&threadId=19_meeting_ZDNjMThhMTYtZjg0Zi00YmYwLWEyOTAtYzhjOTY2ZTljNDZm@thread.v2&messageId=0&language=en-US>

Six Nations of the Grand River

From: [Kielstra, David](#)
To: "rvanstone@sixnations.ca"
Cc: "[Jean Hao](#)"; [Paul, Jeff](#); [Hohner, Paula](#); [Eadie, Dave](#); [Nick Gollan](#); "[Amy Furtado](#)"; [Bhatia, Faiz](#)
Subject: RE: City of Kitchener Integrated Sanitary Master Plan (ISAN-MP)
Date: Friday, September 17, 2021 1:00:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Hello Robbin,

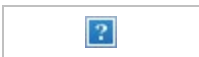
Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan (ISAN-MP). I can confirm that the notice was sent by email to you on Friday September 10, 2021 and that a hard copy was also sent to your office. The contact list has been revised to replace Jen Mt. Pleasant with your contact information for future updates.

We look forward to ongoing consultation with Six Nations of the Grand River as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner
Direct: 905 381-3247
Fax: 905 385-3534
David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Robin Vanstone <rvanstone@sixnations.ca>
Sent: Friday, September 17, 2021 11:35 AM
To: Jean Hao <Jean.Hao@kitchener.ca>
Subject: [EXTERNAL] Consultation Notifications

Good Morning Jean,

My name is Robbin Vanstone and I am the Consultation Supervisor for Six Nations of the Grand River. I received your Notice of Study Commencement for the City of Kitchener Integrated Sanitary Master Plan.

While I have no concerns at this time, I would like to request that you remove Jen Mt.Pleasant,

Consultation Point Person from your contact list for the Six Nations of the Grand River Lands and Resources Department as Ms. Mt.Pleasant is no longer working within our department and should not be receiving this information.

Thank you,

Robbin Vanstone

***Consultation Supervisor
Lands and Resources
Six Nations of the Grand River
w. 519-753-0665 ext. 5433
c. 226-388-0284
rvanstone@sixnations.ca***



From: [Lang, Sarah](#)
To: rvanstone@sixnations.ca
Cc: [Jean Hao](#); [Hohner, Paula](#); [Paul, Jeff](#)
Subject: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Friday, July 8, 2022 10:12:00 AM
Attachments: [Kitchener Integrated Sanitary Master Plan - Notice of Virtual PIC 1.pdf](#)
[let_kitchener-ISMP_PIC1_FirstNations_SixNationsofGrandRiver.pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

Stantec



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Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

July 8, 2022

Attention: Robbin Vanstone
Consultation Supervisor
Six Nations of the Grand River Territory
PO Box 5000
1695 Chiefwoods Road
Ohsweken, ON N0A 1M0
rvanstone@sixnations.ca

Dear: Robbin Vanstone

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

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July 8, 2022

Attention

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by August 8, 2022. If you wish to discuss this project or setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

Please communicate any concerns or questions related to this project to the undersigned.

Regards,

A handwritten signature in black ink, appearing to be 'JH', written in a cursive style.

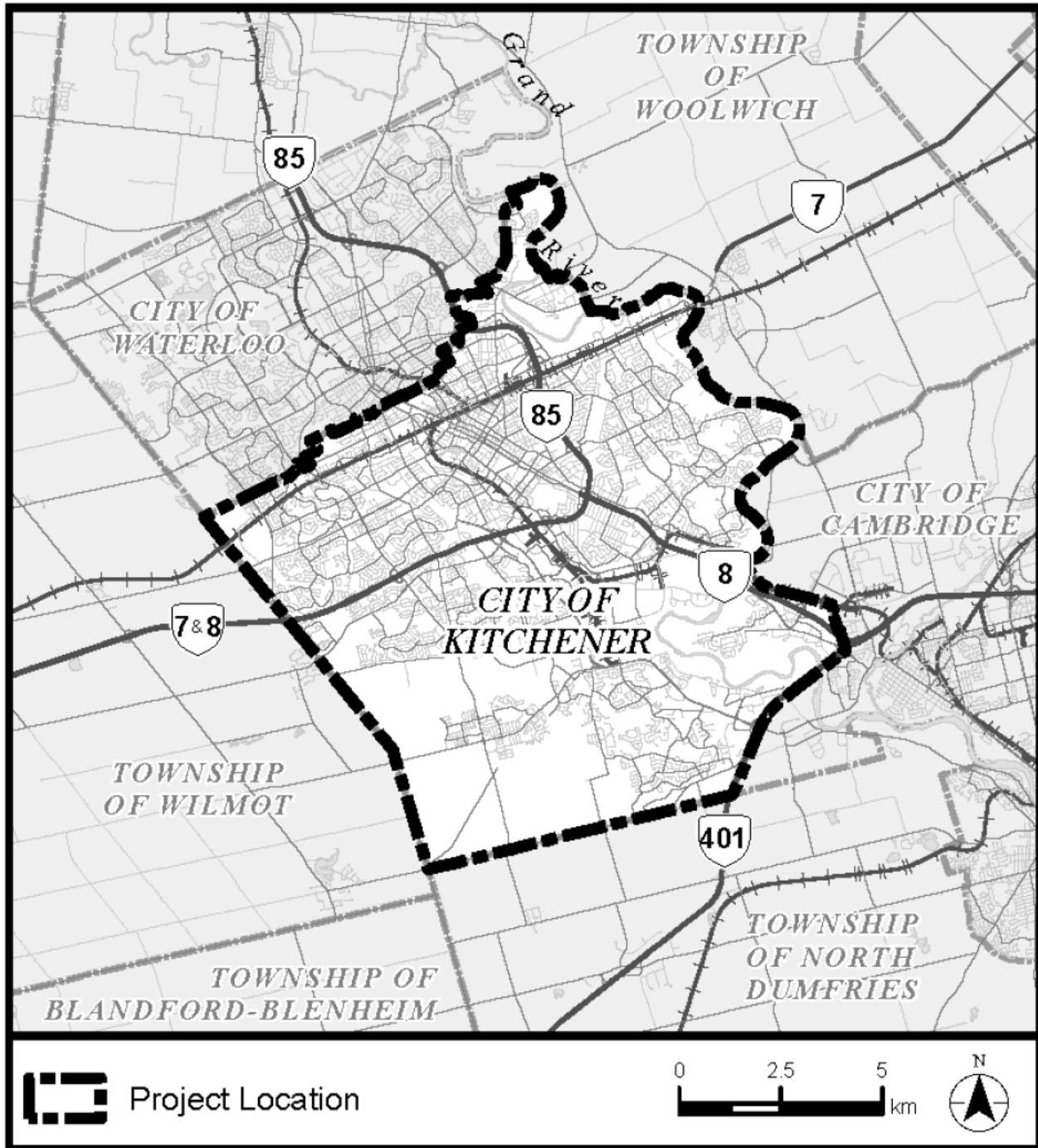
Jean Hao, P.Eng., PMP
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City of Kitchener
Office: 519-741-2200, ext. 4156
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Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Lang, Stantec Consulting Ltd.



Study Area Map



Sarah Anderson

Subject: City of Kitchener DMAF stormwater projects update
Location: 2498 Chiefswood Road, Six Nations Development Corporation Boardroom

Start: Tue 2/28/2023 2:00 PM
End: Tue 2/28/2023 4:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Sarah Anderson

Required Attendees Samantha Brickman; Nick Gollan; Dawn Russell

Optional Attendees:

Hi CAP team,

Here is a proposed agenda based on recent conversations with Peter and Lauren. We welcome your feedback!

- Introductions
- Brief updates:
 - Integrated Sanitary Master Plan Engagement – Nick Gollan
 - General Disaster Mitigation Adaptation Fund project updates – Samantha Brickman
- Discussion about integrating Indigenous Knowledge into the EA process – **let's use the attached guide as a starting point for the discussion**
- Draft chart of relevant documents for review & discussion of capacity funding rate structure next steps – to be shared this week
- SNGR CAP team's thoughts on integrating future meetings with other City of Kitchener teams.
 - May 2023. Joint City of Kitchener Parks & Sanitary and Stormwater Utility engagement meeting
 - August 2023. Opportunities for engagement with other City of Kitchener teams.

Thanks,
Sarah

Hello, CAP team!

I'm holding this time for the City of Kitchener Sanitary and Stormwater Utilities team's quarterly meeting with the Six Nations of the Grand River Elected Council Consultation and Accommodation Process team. The purpose of this meeting is engagement on Disaster Mitigation Adaptation Fund stormwater projects.

We will send update materials and a more detailed agenda by February 21. Our tentative agenda is to share project updates and bring engagement questions to discuss. Let us know if you would like to add to or change the agenda.

Thanks,
Sarah

From: [Sarah Anderson](#)
To: [Lauren Jones](#); [Peter Graham](#)
Cc: [Samantha Brickman](#); [Nick Gollan](#)
Bcc: [Jean Hao](#)
Subject: Length & percentage of sanitary pipes in Kitchener natural areas
Date: Tuesday, June 13, 2023 10:28:00 AM
Attachments: [CityKitchener_SanitaryPipesInNaturalAreas_2023.html](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

Hi Lauren and Peter,

Lauren asked in our February 2023 engagement meeting what length of sanitary pipe runs through natural areas in Kitchener. Apologies for the delay in getting this information to you.

Please share this data with the SNGR CAP team as interested.

Our GIS team calculated the % of City sanitary pipe kilometres running through natural areas as **8.01 %**. The attached HTML map shows the layers and locations for the analysis.

- Total length of sanitary pipes in Kitchener: 881.28 km
- Total length of sanitary pipes in Kitchener natural areas: 70.68 km

Let us know if you have any questions about this data.

Thanks,
Sarah

Sarah Anderson, M.E.S. (she/her)

Engagement Associate | Sanitary and Stormwater Utilities | City of Kitchener
519-741-2600 x4047 | TTY 1-866-969-9994 | Sarah.Anderson@kitchener.ca



From: [Micks, Sarah](#)
To: [Peter Graham](#); [Dawn Russell](#)
Cc: [Paul, Jeff](#); [Jean Hao](#)
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2
Date: Wednesday, December 6, 2023 4:31:00 PM
Attachments: [not_kitchener_sanitaryMP_PIC2_AODA_.pdf](#)
[let_kitchener-ISMP_PIC2_SNGR.pdf](#)

Good Afternoon,

Please find the attached letter and Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5



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Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

December 6, 2023

Peter Graham
Six Nations of the Grand River Territory
2498 Chiefswood Rd
Ohsweken, ON N0A 1M0

Dear Peter Graham,

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 2
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

The Master Plan has reviewed the existing conditions, developed an assessment of alternative solutions for sanitary servicing, and identified the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative has been identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

A second Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website (www.engagewr.ca/sanitarymasterplan) to present the recommended solutions. The PIC materials will be available on the City's Engage Kitchener website starting on December 6, 2023.

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by January 7, 2024. If you wish to discuss this project or setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

December 6, 2023

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

Please communicate any concerns or questions related to this project to the undersigned.

Regards,



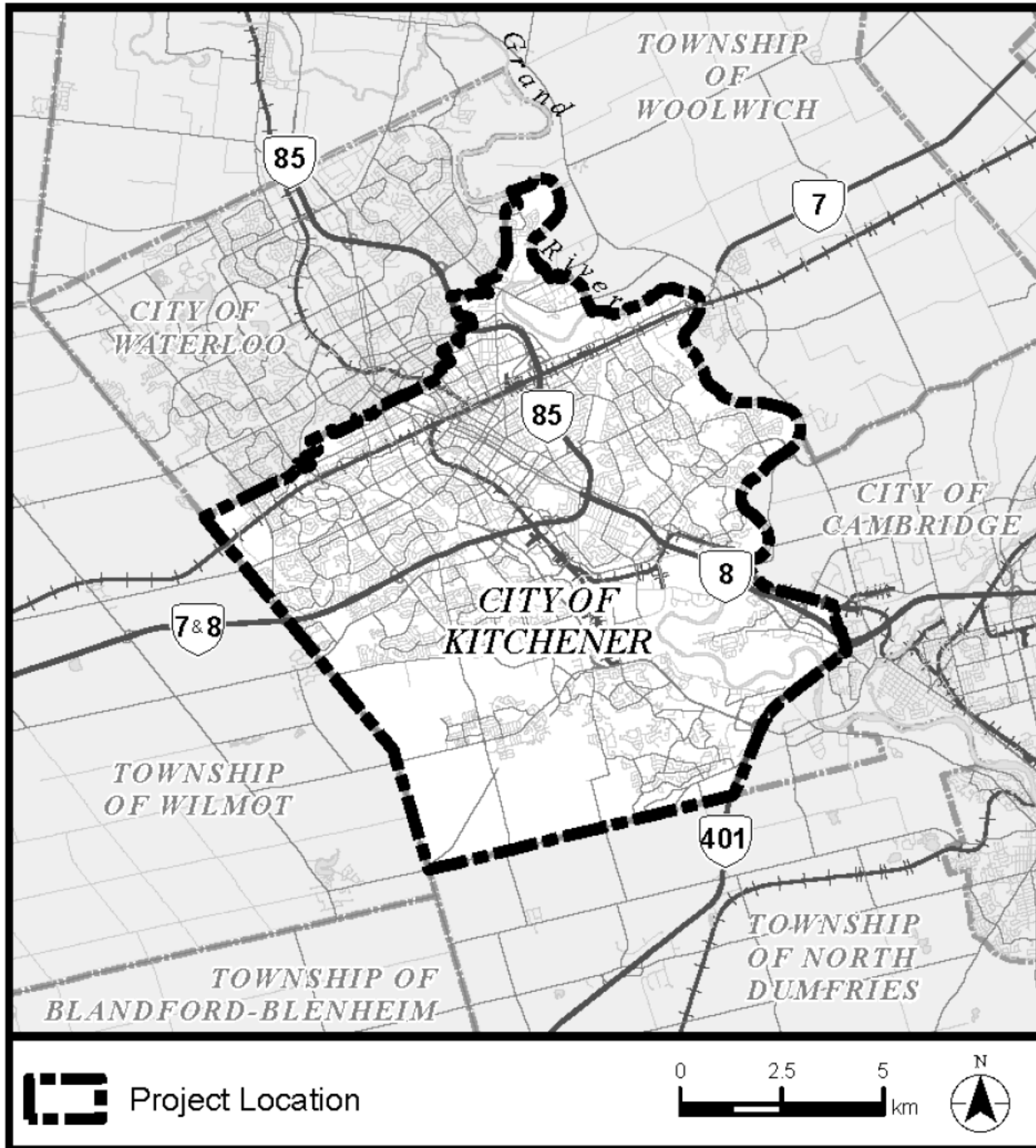
Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. D. Russell, Six Nations of the Grand River Territory
J. Paul, P. Hohner, S. Micks, Stantec Consulting Ltd.



Study Area Map



Haudenosaunee Development Institute

From: Aaron Detlor <aarondetlor@gmail.com>

Sent: Monday, November 01, 2021 2:42 PM

To: Kielstra, David <David.Kielstra@stantec.com>

Cc: Aaron Detlor <aarondetlor@gmail.com>; HDI General <hdi2@bellnet.ca>; Brian Doolittle <ganowa@me.com>; williams todde@gmail.com <williams.todde@gmail.com>; Wayne Hill <tworowarchaeology@gmail.com>; Tracey General <traceyghdi@gmail.com>; janice.r.n.w23@gmail.com; HDI Communications <hdicomms2021@gmail.com>; Kahsenniyo Williams <kahsenniyowilliams@gmail.com>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>; Bhatia, Faiz <Faiz.Bhatia@stantec.com>; Jean Hao <Jean.Hao@kitchener.ca>; Nick Gollan <nick.gollan@kitchener.ca>

Subject: Re: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Dear Mr. Kielstra:

I can advise that there was no engagement with HDI on the Master Plan despite the fact that the City of Kitchener is aware that the Master Plan and the Integrated Sanitary Master Plan interferes with and impairs Haudenosaunee rights and interests which include rights to unsurrendered land and those rights set out in the Nanfan Treaty of 1701 and the Haldimand Proclamation. I am of the understanding that the Master Plan and any subsidiary plans, including the Sanitary Master Plans must be compliant with the PPS which requires that any planning activity consider the impact upon treaty rights.

Please see section

1.2.2 Planning authorities shall engage with Indigenous communities and coordinate on land use planning matters.

Part IV

Ontario recognizes the unique role Indigenous communities have in land use planning and development, and the contribution of Indigenous communities' perspectives and traditional knowledge to land use planning decisions. The Province recognizes the importance of consulting with Aboriginal communities on planning matters that may affect their section 35 Aboriginal or

treaty rights. Planning authorities are encouraged to build constructive, cooperative relationships through meaningful engagement with Indigenous communities to facilitate knowledge-sharing in land use planning processes and inform decision-making.

2.6.5 Planning authorities shall engage with Indigenous communities and consider their interests when identifying, protecting and managing cultural heritage and archaeological resources.

4.3 This Provincial Policy Statement shall be implemented in a manner that is consistent with the recognition and affirmation of existing Aboriginal and treaty rights in section 35 of the Constitution Act, 1982.

To date there has been a complete failure to engage by way of the PPS.

At the same time there has been no engagement by way of the MCEA which again requires specific identification of all environmental issues including Indigenous rights and interests.

We are asking you to please submit an application and meet with us at your earliest convenience to discuss how and when engagement is to occur on this matter.

We are specifically asking to be engaged in the planning process and not simply in field investigations and your insinuation that this is all we are entitled to is somewhat patronizing and unwarranted.

We look forward to hearing from you with respect to your meeting dates and I will leave it with my colleague Ms Williams to make the necessary arrangements to set up a meeting.

To again reiterate we are asking that you please respect our right to participate in all of the planning activities associated with your work on this matter.

Regards,

Aaron Detlor

On Nov 1, 2021, at 2:16 PM, Kielstra, David <David.Kielstra@stantec.com> wrote:

Hello Mr. Detlor,

Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan project and your interests. The study is following the Master Planning Process, as outlined in Appendix 4 of the Municipal Class Environmental Assessment (MCEA) document (October 2000, as amended in 2015). This study will address Phases 1 and 2 of the MCEA process and will form the basis for the recommended Schedule B infrastructure projects identified within the Master Plan.

We are still in the early phases of the Master Plan process and are examining the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in the community. The Master Plan process will identify specific projects to address current and future sanitary servicing needs of the community. Depending on the specific projects identified, terrestrial and aquatic field investigations, Stage 1 archaeological assessments, and cultural heritage assessments may be completed for those specific projects. Typically, these more detailed site-specific studies take place as part of individual projects after the Master Planning Process is complete.

We have reviewed the HDI Haudenosaunee Development Protocol and HDI Application for Consideration and Engagement for Development in relation to the Master Plan study. It appears the protocol and application apply more to projects that are ready to go to construction which is not unlike other groups that have expressed desire to be involved in any field investigations, both from an archaeological and natural heritage perspective. The first part of this initiative is more of a desktop exercise. We would be happy to provide you with a copy of the Master Plan Study when it is completed as it will identify specific projects which may be of interest to you. We could then meet with you to better understand your interests in the projects.

Should you have any concerns/comments or require further information, please do not hesitate to contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra MA, EP, MCIP, RPP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Aaron Detlor <aarondetlor@gmail.com>

Sent: Monday, October 11, 2021 10:33 PM

To: HDI General <hdi2@bellnet.ca>; Kielstra, David <David.Kielstra@stantec.com>

Cc: Aaron Detlor <aarondetlor@gmail.com>; Brian Doolittle <ganowa@me.com>;

williams todde@gmail.com <williams.todde@gmail.com>; Wayne Hill

<tworowarchaeology@gmail.com>; Tracey General

<traceyghdi@gmail.com>; janice.r.n.w23@gmail.com; HDI Communications

<hdicommunications2021@gmail.com>; Kahsenniyo Williams

<kahsenniyouwilliams@gmail.com>

Subject: Re: City of Kitchener - Notice of Study Commencement - Integrated Sanitary

Master Plan

Dear Mr. Kielstra:

We can advise that your Integrated Sanitary Master Plan will have a significant impact upon Haudenosaunee treaty rights however we have not been provided with any funding to comment meaningfully.

We have an application process to handle your particular matters and I would like to ask whether you would consider going through the process that we have adopted.

Ms Williams will be following up with you in fourteen days to determine if you have applied or made other arrangements to ensure that we can participate meaningfully and where the City of Kitchener can ensure that it is upholding the honour of the Crown particularly where much of the City of Kitchener sits on unsurrendered and stolen Haudenosaunee land.

Regards,

Aaron Detlor

On Oct 11, 2021, at 7:33 PM, Administration <hdi2@bellnet.ca> wrote:

Begin forwarded message:

From: "Kielstra, David" <David.Kielstra@stantec.com>
Subject: FW: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: October 6, 2021 at 1:59:06 PM EDT
To: "hdi2@bellnet.ca" <hdi2@bellnet.ca>
Cc: Jean Hao <Jean.Hao@kitchener.ca>, "Hohner, Paula" <Paula.Hohner@stantec.com>, "Paul, Jeff" <jeff.paul@stantec.com>

Hello Tracey General,

I am following up on the City of Kitchener Integrated Sanitary Master Plan letter that was sent by email September 2, and also sent by mail to your office. I want to take this opportunity to reach out if you have any questions or comments regarding the letter or the proposed work since we have not heard back from you to date.

Please let me know if you wish to discuss the project further.

Thank you,

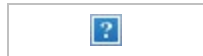
David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Kielstra, David

Sent: Thursday, September 02, 2021 11:10 AM

To: 'hdi2@bellnet.ca' <hdi2@bellnet.ca>

Cc: Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula

<Paula.Hohner@stantec.com>; Paul, Jeff

<jeff.paul@stantec.com>

Subject: City of Kitchener - Notice of Study Commencement
- Integrated Sanitary Master Plan

Hello Tracey General,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached letter and Notice of Study Commencement for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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<let_kitchener_sanitary_HDI.pdf>

<not_kitchener_sanitaryMP_NOOSC_AODA.pdf>

From: [Nick Gollan](#)
To: ["Raechelle Williams"](#)
Cc: [Jean Hao](#); [Paul, Jeff](#); [Aaron Detlor](#); [Todd Williams](#); [Tracey General](#); [Hohner, Paula](#); [Kielstra, David](#)
Subject: RE: City of Kitchener - HDI Application Process: Integrated Sanitary Master Plan
Date: Tuesday, February 15, 2022 11:12:57 AM
Attachments: [~WRD0000.jpg](#)
[Letter ISAN-MP_Feb2022.pdf](#)
[Attachment Letter ISAN-MP_Feb2022.pdf](#)

Hello Ms. Williams,

The City has had an opportunity to review the document provided in your correspondence below. I have attached our response for your consideration.

We look forward to hearing from you.

Take care,
Nick

Nick Gollan, C.E.T.

Manager, Planning and Programs | Sanitary and Stormwater | City of Kitchener
519-741-2200 ext. 7422 | TTY 1-866-969-9994 | nick.gollan@kitchener.ca

From: Raechelle Williams <janicewilliams@hdi.land>
Sent: Wednesday, November 24, 2021 5:14 PM
To: Nick Gollan <Nick.Gollan@kitchener.ca>
Cc: Jean Hao <Jean.Hao@kitchener.ca>; Aaron Detlor <Aarondetlor@gmail.com>; Todd Williams <williams.todde@gmail.com>; Tracey General <traceyghdi@gmail.com>; Hohner, Paula <Paula.Hohner@stantec.com>; Kielstra, David <David.Kielstra@stantec.com>
Subject: [EXTERNAL] City of Kitchener - HDI Application Process: Integrated Sanitary Master Plan

Sge:no/Hello Mr. Gollan,

My colleague Mr. Detlor has asked me to provide the following instructions to the application process and please find the HDI Draft Engagement Agreement attached to this email as well. Again, this application process provides initial funding for our team to begin to review the documents internally and recognize how this project impacts and interferes within our treaty rights.

As for the application process, you are able to access this information on the link below:

[Development - Haudenosaunee Confederacy](#)

Click on the PDF file download and complete the application. Once this is completed, please mail off to:

Haudenosaunee Development Institute
16 Sunrise Court - Suite 600

P.O.Box 714
Ohsweken, Ontario
N0A 1M0

Nya:weh/Thank-you,

Raechelle Williams
HDI Environmental Supervisor
Haudenosaunee Development Institute
16 Sunrise Court, Suite 600 Ohsweken, ON
P.O. Box 714
Ph: 519-445-4222
(Direct): 519-802-9402



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INFRASTRUCTURE SERVICES DEPARTMENT

Nick Gollan, C.E.T.
Manager, Planning and Programs
Sanitary and Stormwater Utilities
Kitchener Operations Facility
131 Goodrich Drive
Kitchener, Ontario
Canada, N2C 1J3
Tel: (519) 741-8000 x 7400

February 14, 2022

Attention: Raechelle Williams
HDI Environmental Supervisor
Haudenosaunee Development Institute
16 Sunrise Court, Suite 600 Ohsweken, ON
P.O. Box 714
Ph: 519-445-4222
(Direct): 519-802-9402

Dear Raechelle Williams,

Reference: City of Kitchener – Integrated Sanitary Master Plan (ISAN-MP)

Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan and the Draft Engagement Agreement dated November 24, 2021; we address this near the end of this letter. This additional information was received from you following our Microsoft Teams meeting on November 16th, 2021. The project team attempted to share a project overview and background information with HDI to initiate the engagement process and begin collaborative information sharing. Attached to this letter, you will find a copy of the presentation the project team prepared and an excerpt of the Environmental Background Review text. Comments are welcome at any time throughout the project.

This Environmental Assessment (EA) Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended in 2015), which is an approved process under the *Ontario Environmental Assessment Act*. The EA Act is administered by the Ministry of the Environment, Conservation and Parks. The ISAN-MP will consider the natural, social, and economic environments through the background review and evaluation process. A preferred solution will be established to inform capital infrastructure planning related to the existing and future sanitary system (replacement/rehabilitation and/or construction of sanitary sewers, pumping stations, etc.) following a technical review of alternatives with input from agencies, Indigenous communities, and stakeholders. Individual sanitary system projects and their impacts on rights or territory are unknown. However, evaluation criteria of the sanitary system will consider the existing infrastructure needs, new planning policies, growth projections, and any interests you identify to plan for healthy communities, ecological protection, and the continued provision of existing sanitary services for the community.

As the project progresses, key documents will become available and include Public Information Centre materials and the ISAN-MP environmental study report. All project stakeholders will be notified as these documents become available. The ISAN-MP will be prepared at the end of the project, in early 2023, and circulated for a mandatory 30-day review period.

The background review considered several aspects, including:

Environment: A desktop-level review was prepared to identify potentially sensitive landscapes and features within the City of Kitchener boundaries, as identified in mapping sources from the City of Kitchener, Region of Waterloo and provincial mapping databases. Natural features are predominately located along the Grand River and ravines, valley lands, and woodlots. Areas identified as significant wildlife habitat are located near Sportsworld Drive and west of Homer Watson Boulevard near Highway 401, Doon Valley and along the Grand River. Natural areas, sensitive habitats, source

water protection areas, and land use designations such as “Protected Countryside” and “Prime Agricultural Areas” will be reviewed in relation to potential projects to determine if fieldwork or additional analysis may be required.

Cultural/Historical: A desktop review of built cultural heritage and cultural heritage landscapes was prepared based on City of Kitchener Official Plan Cultural Heritage Resource Mapping and the Cultural Heritage Landscapes Study (2014), which identified 55 Cultural Heritage Landscapes in the City of Kitchener.

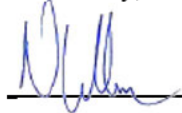
Archaeology: The *Region of Waterloo Archaeology Facilities Master Plan* (1989) included a Region-level scan of archaeology potential. The document will be reviewed once alternatives are identified regarding proximity to these identified areas of archaeological potential. Recommendations for further archaeological assessment are to be determined.

The background review will be considered as part of the evaluation of potential projects as part of the Master Planning Process, as outlined in Appendix 4 of the *Municipal Class Environmental Assessment (MCEA)* document. This study will address Phases 1 and 2 of the MCEA process and form the basis for the recommended Schedule B infrastructure projects. Should potential projects require environmental, cultural/historical, or archaeology fieldwork, the contact information you provide will be used to engage your community to determine your interest in participating.

We have received your request for funding to facilitate a practical review of the information generated as part of the ISAN-MP. We are receptive to providing funding that will support a meaningful review process. Projects of this nature are peer-reviewed from time to time. Based on industry feedback, the expected cost for an independent third-party review is estimated to range from \$3,000 - \$4,000 for third-party staff time for an independent review of technical documents. In addition to third-party staff time, we support providing \$3,000 - \$4,000 for HDI staff time to review the information and any comments provided by the third party. In addition to technical documentation review, the City supports funding reasonable expenses for the time required for HDI Environmental Monitors. This is consistent with past practices that have been successful on projects such as the unrelated Stormwater Management Idlewood Creek Naturalization Project (2017), when Environmental Monitors were present for archaeological work to confirm whether any artifacts of interest were located within the project area. The scope of any future fieldwork has not yet been defined, as such it would be appropriate to determine an hourly rate for Environmental Monitors and any associated costs such as mileage and meals. We would appreciate receiving this information from you.

Please let us know if you are interested in setting up a subsequent teleconference to discuss the project.

Yours truly,



Nick Gollan
Manager, Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener

Attachments: Project Overview Presentation; Background Review Text - Environmental

cc. Jean Hao, City of Kitchener
Jeff Paul, Stantec Consulting Ltd.

From: [Aaron Detlor](#)
To: [Nick Gollan](#)
Cc: [Aaron Detlor](#); [Raechelle Williams](#); [Jean Hao](#); [Paul, Jeff](#); williams.todde@gmail.com; [Tracey General](#); [Hohner, Paula](#); [Kielstra, David](#)
Subject: Re: City of Kitchener Integrated Sanitary Master Plan
Date: Monday, February 28, 2022 1:49:51 PM

Dear Mr. Gollan:

Thank you for your letter.

When we are in receipt of your application and the associated fee we can proceed with a further engagement meeting. As you may be aware the City of Kitchener is obligated to engage by way of, inter alia, section 1.2.2 of the Provincial Policy Statement. To date there has been no engagement and we have asked that you engage in the manner established by the HCCC consistent with HCCC inherent rights and interests which are recognized in part by way of UNDRIP. We would respectfully ask that you please not attempt to dictate to us the manner and form by which engagement will occur as it is the City of Kitchener that is sitting on unsundered Haudenosaunee land.

I also do not believe that it is appropriate for you to attempt to limit our review of the project to a process based on 'industry feedback'. We are the Haudenosaunee not industry and our rights and interests form part of a sacred and solemn covenant between us and the Crown and we will review your projects consistent with our standards and guidelines. We will not allow you to colonize our process or dictate to us how we will protect our rights based upon your 'industry feedback' (which parenthetically gives rise to a blatant conflict of interest). The costs that you will pay will be those costs that we incur to ensure that our rights and interests are properly considered in the manner we choose to consider them.

As you are aware the current EA process is being pursued without regard to our rights and interests and in particular I would point you to the MCEA Companion Guide and in particular page 49 which states that rights based engagement may be required as is the case in this instance.

The basis for the acknowledgement that the MCEA process is inadequate is its failure (amongst other things) to provide for a means of addressing cumulative impacts and at the same time accommodation of direct and indirect (cumulative impacts - *Yahey v. British Columbia*, 2021 BCSC 1287)

We look forward to receiving the application and the fee in the amount of \$7000 consistent with the process we have established within the next ten (10) days.

Regards,

Aaron Detlor

> On Feb 15, 2022, at 11:09 AM, Nick Gollan <Nick.Gollan@kitchener.ca> wrote:

>

> <[Letter_ISAN-MP_Feb2022.pdf](#)>

From: [Aaron Detlor](#)
To: [Nick Gollan](#)
Cc: [Aaron Detlor](#); [Raechelle Williams](#); [Jean Hao](#); [Paul, Jeff](#); williams.todde@gmail.com; [Tracey General](#); [Hohner, Paula](#); [Kielstra, David](#)
Subject: Re: City of Kitchener Integrated Sanitary Master Plan
Date: Monday, February 28, 2022 1:56:55 PM

Dear Mr. Gollan:

To the extent that the ISMP forms part of the City of Kitchener's Official Plan I can advise that the Provincial Policy Statement is clear that the Official Plan must the City of Kitchener must acknowledge that:

The Province recognizes the importance of consulting with Aboriginal communities on planning matters that may affect their section 35 Aboriginal or treaty rights.

Planning authorities are encouraged to build constructive, cooperative relationships through meaningful engagement with Indigenous communities to facilitate knowledge-sharing in land use planning processes and inform decision-making

1.2.2 Planning authorities shall engage with Indigenous communities and coordinate on land use planning matters.

As you are aware none of the above has occurred.

Regards,

Aaron Detlor

On Feb 28, 2022, at 1:49 PM, Aaron Detlor <aarondetlor@gmail.com> wrote:

Dear Mr. Gollan:

Thank you for your letter.

When we are in receipt of your application and the associated fee we can proceed with a further engagement meeting. As you may be aware the City of Kitchener is obligated to engage by way of, inter alia, section 1.2.2 of the Provincial Policy Statement. To date there has been no engagement and we have asked that you engage in the manner established by the HCCC consistent with HCCC inherent rights and interests which are recognized in part by way of UNDRIP. We would respectfully ask that you please not attempt to dictate to us the manner and form by which engagement will occur as it is the City of Kitchener that is sitting on unsundered Haudenosaunee land.

I also do not believe that it is appropriate for you to attempt to limit our review of the project to a process based on 'industry feedback'. We are the Haudenosaunee not industry and our rights and interests form part of a sacred and solemn covenant between us and the Crown and we will review your projects consistent

with our standards and guidelines. We will not allow you to colonize our process or dictate to us how we will protect our rights based upon your 'industry feedback' (which parenthetically gives rise to a blatant conflict of interest). The costs that you will pay will be those costs that we incur to ensure that our rights and interests are properly considered in the manner we choose to consider them.

As you are aware the current EA process is being pursued without regard to our rights and interests and in particular I would point you to the MCEA Companion Guide and in particular page 49 which states that rights based engagement may be required as is the case in this instance.

The basis for the acknowledgement that the MCEA process is inadequate is its failure (amongst other things) to provide for a means of addressing cumulative impacts and at the same time accommodation of direct and indirect (cumulative impacts - Yahey v. British Columbia, 2021 BCSC 1287)

We look forward to receiving the application and the fee in the amount of \$7000 consistent with the process we have established within the next ten (10) days.

Regards,

Aaron Detlor

On Feb 15, 2022, at 11:09 AM, Nick Gollan
<Nick.Gollan@kitchener.ca> wrote:

<Letter_ISAN-MP_Feb2022.pdf>

From: [Lang, Sarah](#)
To: hdi2@bellnet.ca; traceyghdi@gmail.com
Cc: aarondetlor@gmail.com; [Jean Hao](#); [Paul, Jeff](#); [Hohner, Paula](#)
Subject: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Friday, July 8, 2022 10:14:00 AM
Attachments: [Kitchener Integrated Sanitary Master Plan - Notice of Virtual PIC 1.pdf](#)
[let_kitchener-ISMP_PIC1_FirstNations_HDI.pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

Stantec



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Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

July 8, 2022

Attention: Tracey General

Haudenosaunee Development Institute
Suite 600, PO Box 714
16 Sunrise Court
Ohsweken, ON N0A 1M0
hdi2@bellnet.ca; traceyghdi@gmail.com

Dear: Tracey General

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

The Master Plan will review the existing conditions, develop an assessment of alternative solutions for sanitary servicing, and identify the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative will be identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

This EA Study is being undertaken as a Master Plan in accordance with the planning and design process as outlined in the Municipal Class EA document (2000, as amended) which is an approved process under the Ontario Environmental Assessment Act. This Master Plan is intended to satisfy the documentation and consultation requirements for Phase 1 and 2 of the Municipal Class EA process.

A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website (<https://www.engagewr.ca/sanitarymasterplan>) to present the background information on the study. The PIC materials will be available on the City's Engage Kitchener website starting on July 8, 2022.

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by August 8, 2022. If you wish to discuss this project or

July 8, 2022

Attention

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

Please communicate any concerns or questions related to this project to the undersigned.

Regards,

A handwritten signature in black ink, appearing to be 'JH', written in a cursive style.

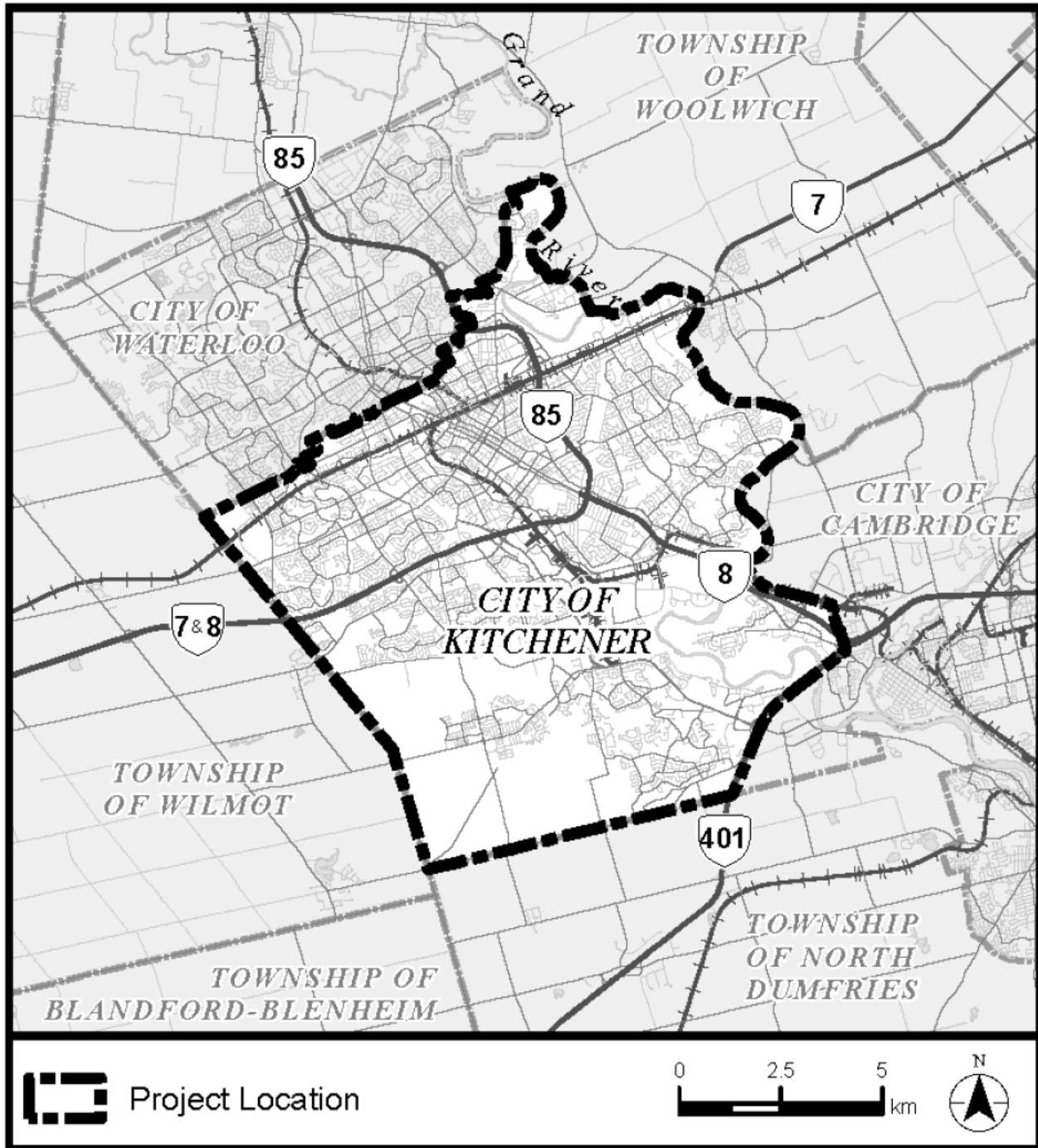
Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Lang, Stantec Consulting Ltd.



Study Area Map



Huron-Wendat Nation

From: [Kielstra, David](#)
To: Lori-Jeanne.Bolduc@wendake.ca
Cc: [Nick Gollan](#); [Paul, Jeff](#); [Bhatia, Faiz](#); [Jean Hao](#); [Hohner, Paula](#); Mario.GrosLouis@wendake.ca
Subject: RE: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan
Date: Wednesday, October 13, 2021 10:09:00 AM
Attachments: [image002.png](#)

Hello Lori-Jeanne,

Thank you for your email regarding the City of Kitchener Integrated Sanitary Master Plan. The project includes the City of Kitchener limits and will include an archaeological and heritage review using available documentation. The background review will be considered as part of the identification of potential projects for the Master Plan and their evaluation as part of the Municipal Class Environmental Assessment process.

The Project Team will notify the Huron Wendat Nation if an Archaeological Assessment is required. An electronic copy of technical studies will be provided to your email address upon project completion.

We look forward to ongoing consultation with the Huron Wendat Nation as the study progresses. Should you have any questions or concerns, please contact Jean Hao of the City of Kitchener by telephone at 519-741-2200, ext. 4156 or by email, jean.hao@kitchener.ca, or the undersigned.

Thank you,

David Kielstra M.A, EP
Environmental Planner
Direct: 905 381-3247
Fax: 905 385-3534
David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: Lori-Jeanne Bolduc <Lori-Jeanne.Bolduc@wendake.ca>
Sent: Friday, September 17, 2021 1:40 PM
To: Jean Hao <Jean.Hao@kitchener.ca>
Cc: Mario Gros Louis <Mario.GrosLouis@wendake.ca>
Subject: [EXTERNAL] TR: City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hi Jean,

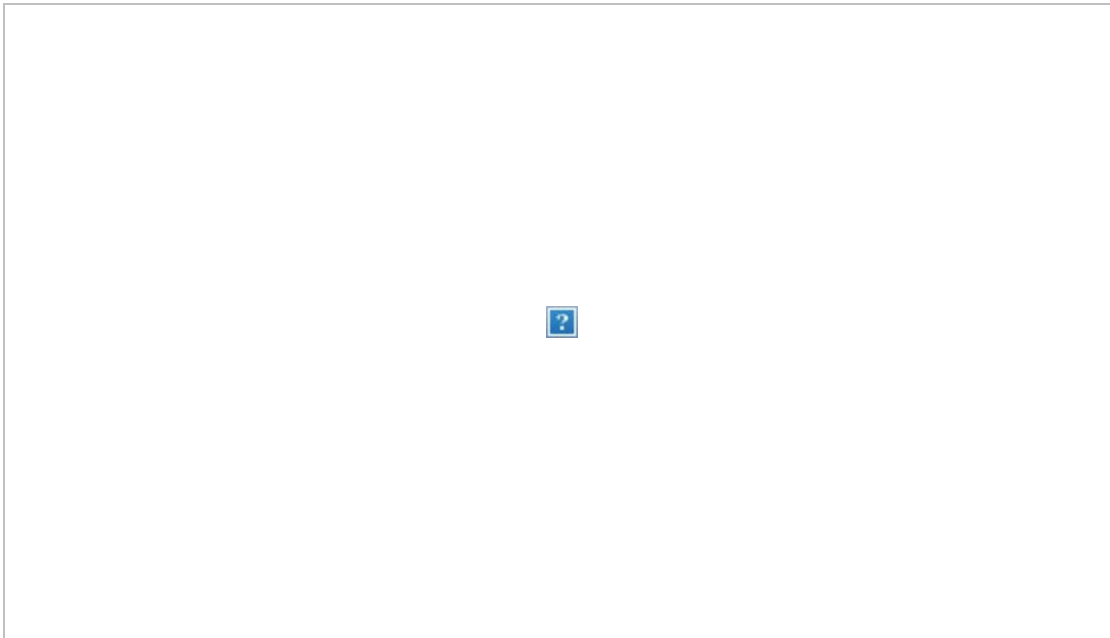
Could you please let us know if any archaeological studies or fieldwork will be necessary as part of this project?

Thank you,

Lori-Jeanne

ATTENTION: Please note that Maxime Picard has a new position at the Huron-Wendat Nation Council and is no longer in charge of Ontario consultations. Any new consultation from Ontario must be sent to Mario Gros-Louis (mario.gros-louis@wendake.ca) and Lori-Jeanne Bolduc (lori-jeanne.bolduc@wendake.ca).

For inquiries relating specifically to archaeology (fieldwork planning, monitoring, reports review, etc.), please contact Marie-Sophie Gendron (marie-sophie.gendron@wendake.ca), Isabelle Lechasseur (isabelle.lechasseur@wendake.ca) and Jean-François Richard (jean-francois.richard@wendake.ca).



De : Kielstra, David <David.Kielstra@stantec.com>

Envoyé : 2 septembre 2021 11:10

À : Maxime Picard <Maxime.Picard@wendake.ca>

Cc : Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>

Objet : City of Kitchener - Notice of Study Commencement - Integrated Sanitary Master Plan

Hello Maxime Picard,

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits.

Please see the attached letter and Notice of Study Commencement for more information regarding the study as part of the Municipal Class Environmental Assessment process, as well as contact information for the project team.

If you have any comments or questions related to this project, please let our team know.

Thank you,

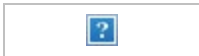
David Kielstra M.A, EP
Environmental Planner

Direct: 905 381-3247

Fax: 905 385-3534

David.Kielstra@stantec.com

Stantec
200-835 Paramount Drive
Stoney Creek ON L8J 0B4



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From: [Lang, Sarah](#)
To: lori-jeanne.bolduc@wendake.ca; mario.grosLouis@wendake.ca
Cc: [Jean Hao](#); [Hohner, Paula](#); [Paul, Jeff](#)
Subject: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Friday, July 8, 2022 10:13:00 AM
Attachments: [Kitchener Integrated Sanitary Master Plan - Notice of Virtual PIC 1.pdf](#)
[let_kitchener-ISMP_PIC1_FirstNations_Huron-Wendat.pdf](#)

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

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Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

July 8, 2022

Attention: Lori-Jeanne Bolduc, Mario Gros Louis

Project Coordinator – Ontario Huron-Wendat
Huron-Wendat Nation
255 Place Chef Michel-Laveau
Wendake, QC G0A 4V0
lori-jeanne.bolduc@wendake.ca; mario.groslouis@wendake.ca

Dear: Lori-Jeanne Bolduc, Mario Gros Louis,

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

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July 8, 2022

Attention

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

Please communicate any concerns or questions related to this project to the undersigned.

Regards,

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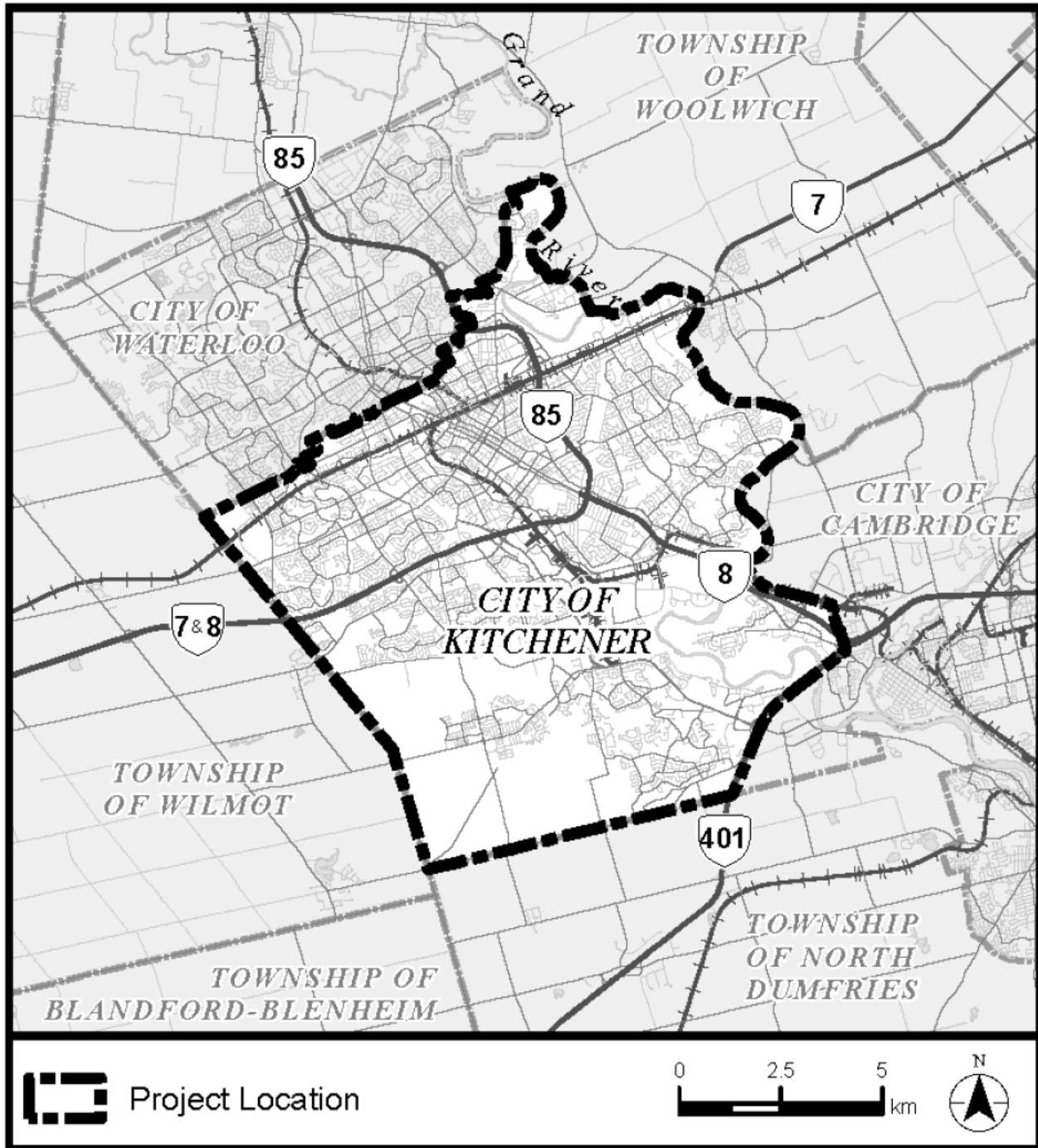
Jean Hao, P.Eng., PMP
Design and Construction Project Manager
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Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Lang, Stantec Consulting Ltd.



Study Area Map



From: [Dominic Ste-Marie](#)
To: [Lang, Sarah](#)
Cc: [Lori-Jeanne Bolduc](#); [Naomi Leduc](#); [Marie-Sophie Gendron](#)
Subject: RE: City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre 1
Date: Thursday, August 25, 2022 9:51:34 AM

Kwe Sarah,

Thank you for your email. The Huron-Wendat Nation wishes to be consulted for this project. We need to send monitors for the purpose of construction monitoring, including mats installation and removal. Funding must be made available to insure our participation. My colleague Marie-Sophie (cc'd) will be able to provide a quote and coordinate our participation to this project.

Tiawenhk chia' önenh

Dominic Ste-Marie



NATION HURONNE-WENDAT
Bureau du Nionwentsïo

Dominic Ste-Marie
Conseiller en gestion du territoire
255, Place Chef Michel-Laveau
Wendake (Qc) G0A 4V0
Téléphone : 418-843-3767
Courriel : dominic.ste-marie@wendake.ca



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*Do you really need to print this email?
Think to the environment*

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ATTENTION: Please note that Maxime Picard has a new position at the Huron-Wendat Nation Council and is no longer in charge of Ontario consultations. Any new consultation from Ontario must be sent to Mario Gros-Louis (mario.gros-louis@wendake.ca), Lori-Jeanne Bolduc (lori-jeanne.bolduc@wendake.ca) and Dominic Ste-Marie (dominic.ste-marie@wendake.ca).

For inquiries relating specifically to archaeology (fieldwork planning, monitoring, reports review, etc.), please contact Marie-Sophie Gendron (marie-sophie.gendron@wendake.ca), Isabelle Lechasseur (isabelle.lechasseur@wendake.ca) and Jean-François Richard (jean-francois.richard@wendake.ca).

De : Lang, Sarah <Sarah.Lang@stantec.com>

Envoyé : 8 juillet 2022 10:08

Cc : Jean Hao <Jean.Hao@kitchener.ca>; Hohner, Paula <Paula.Hohner@stantec.com>; Paul, Jeff <jeff.paul@stantec.com>

Objet : City of Kitchener Integrated Sanitary Master Plan: Notice of Virtual Public Information Centre

1

Hello,

Please find the attached Notice of Virtual Public Information Centre (PIC) #1 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on July 8, 2022.

Website: <https://www.engagewr.ca/admin/projects/sanitarymasterplan>

Please provide comments through the Engage Kitchener website, or to a member of the project team by August 8, 2022.

Thank you,

Sarah Lang
Environmental Planner
sarah.lang@stantec.com

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Please consider the environment before printing this email.

From: [Micks, Sarah](#)
To: lori-jeanne.bolduc@wendake.ca; mario.grosLouis@wendake.ca
Cc: [Paul, Jeff](#); [Jean Hao](#)
Subject: City of Kitchener Integrated Sanitary Master Plan - Notice of Virtual Public Information Centre 2
Date: Wednesday, December 6, 2023 4:29:00 PM
Attachments: [not_kitchener_sanitaryMP_PIC2_AODA_.pdf](#)
[let_kitchener-ISMP_PIC2_HuronWendat.pdf](#)

Good Afternoon,

Please find the attached letter and Notice of Virtual Public Information Centre (PIC) #2 for the City of Kitchener Integrated Sanitary Mater Plan, Municipal Class Environmental Assessment. A Virtual PIC is being held online through the City's Engage Kitchener website to present background information on the study. The PIC materials are available on the City's Engage Kitchener website starting on December 6, 2023.

Website: <https://www.engagewr.ca/sanitarymasterplan>

Please provide comments through the Engage Forum by December 20, 2023, or by contacting a member of the project team below by January 7, 2024.

Thank you,

Sarah Micks

Environmental Planner

sarah.micks@stantec.com

Direct: 519-432-4292

400-1305 Riverbend Road

London, ON N6K 0J5



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Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
131 Goodrich Drive
Kitchener, ON N2C 1J3
Ph. 519-741-2200, ext. 4156
TTY 1-866-969-9994
Jean.Hao@kitchener.ca
www.kitchener.ca

December 6, 2023

Lori-Jeanne Bolduc, Mario Gros Louis
Huron-Wendat Nation
255 Place Chef Michel-Laveau
Wendake, QC G0A 4V0

Hello,

**Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 2
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study**

The City of Kitchener is undertaking an Integrated Sanitary Master Plan. The purpose of this Master Plan is to examine the City's sanitary infrastructure needs in light of new planning policies, growth projections, and the current needs and issues that exist in our community. The Study is being undertaken within the City limits (see map).

The Master Plan has reviewed the existing conditions, developed an assessment of alternative solutions for sanitary servicing, and identified the preferred alternative to support a resilient and sustainable sanitary network across the City. The preferred alternative has been identified following a technical review of alternatives, as well as input received from agencies, First Nations communities and stakeholders.

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A second Virtual Public Information Centre (PIC) is being held online through the City's Engage Kitchener website (www.engagewr.ca/sanitarymasterplan) to present the recommended solutions. The PIC materials will be available on the City's Engage Kitchener website starting on December 6, 2023.

We are interested in any feedback you may have regarding the project or your interests in the study area. Please provide comments by January 7, 2024. If you wish to discuss this project or setup a meeting, please contact Jean Hao, Project Manager at 519-741-2200, ext. 4156 or jean.hao@kitchener.ca.

December 6, 2023

Page 2 of 3

Reference: NOTICE OF VIRTUAL PUBLIC INFORMATION CENTRE 1
City of Kitchener Integrated Sanitary Master Plan
Municipal Class Environmental Assessment Study

Please communicate any concerns or questions related to this project to the undersigned.

Regards,



Jean Hao, P.Eng., PMP
Design and Construction Project Manager
Utility Planning and Programs
Sanitary and Stormwater Utilities
City of Kitchener
Office: 519-741-2200, ext. 4156
TTY: 1-866-969-9994
Jean.Hao@kitchener.ca

Encl. Study Area Map, Notice of Virtual Public Information Centre 1

c. J. Paul, P. Hohner, S. Micks, Stantec Consulting Ltd.



Study Area Map

