

Appendices

Appendix A

**Record of Consultation with Interested
Persons**

Record of Meetings with Agencies

Table 1 Record of Meetings with Agencies

Meeting number	Meeting date and time	Participants	Subject
1	July 17, 2023 (2:30 to 3:30 p.m.)	Lake Simcoe Region Conservation Authority (LSRCA)	Project introduction
2	July 17, 2023 (1 to 2 p.m.)	Ministry of Citizenship and Multiculturalism (MCM)	Project introduction and approach for cultural heritage reports
3	July 20, 2023 (1 to 3 p.m.)	Toronto and Region Conservation Authority (TRCA)	Project introduction
4	August 9, 2023 (11 a.m. to 12 p.m.)	LSRCA	Overview of working draft of conceptual design
5	August 10, 2023 (2 to 3 p.m.)	TRCA	Overview of working draft of conceptual design
6	January 10, 2023	Ministry of Environment, Conservation and Parks (MECP)	Working group meeting
7	February 9, 2023	MECP	Working group meeting
8	March 29, 2023	MECP	Working group meeting
9	April 5, 2023	MECP	Working group meeting
10	April 19, 2023	MECP	Working group meeting
11	April 26, 2023	MECP	Working group meeting
12	May 3, 2023	MECP	Working group meeting
13	May 15, 2023	MECP	Working group meeting
14	May 17, 2023	MECP	Working group meeting
15	May 26, 2023	MECP	Working group meeting
16	May 31, 2023	MECP	Working group meeting
17	June 16, 2023	MECP	Working group meeting
18	June 21, 2023	MECP	Working group meeting
19	July 13, 2023	MECP	Working group meeting
20	July 26, 2023	MECP	Working group meeting
21	August 2, 2023	MECP	Working group meeting
22	August 9, 2023	MECP	Working group meeting
23	August 14, 2023	MECP	Indigenous Consultation Plan
24	August 16, 2023	MECP	Working group meeting
25	August 22, 2023	MECP	Duffin Creek WPCP Expansion
26	August 23, 2023	MECP	Working group meeting
27	August 23, 2023	MECP	Indigenous Consultation Plan
28	Sept. 6, 2023 (2:30 to 3:30 p.m.)	TRCA and Town of Ajax	Receiving water impact assessment preliminary results



Record of Communications with Agencies

Environment and Climate Change Canada

Table 2 Record of Communication with Environment and Climate Change Canada

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Environment and Climate Change Canada	Email from York Region	Letter introducing York Region Sewage Works Project	No response	N/A	N/A

Fisheries and Oceans Canada

Table 3 Record of Communication with Fisheries and Oceans Canada

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Fisheries and Oceans Canada	Email from York Region	Letter introducing York Region Sewage Works Project	13/06/2023	Email from OP Habitat (DFO/MPO)	<p>The <i>Fisheries Act</i> requires that projects avoid causing death of fish or any harmful alteration, disruption or destruction of fish and/or fish habitat unless authorized by the Minister of Fisheries and Oceans Canada. The Fish and Fish Habitat Protection Program of Fisheries and Oceans Canada reviews projects to ensure compliance with the <i>Fisheries Act</i> and <i>Species at Risk Act</i>.</p> <p>Please note that the Fish and Fish Habitat Protection Program is not able to provide comments regarding general planning. If planned works may cause any of the prohibited effects under the <i>Fisheries Act</i> or <i>Species at Risk Act</i>, a Request for Review form should be completed for the works and submitted to FisheriesProtection@dfo-mpo.gc.ca. To better understand the review process, please visit http://www.dfo-mpo.gc.ca/pnw-ppe/reviews-revues/request-review-demande-d-examen-001-eng.html. The Request for Review form can be found under Step 4 at that link.</p>



Transport Canada Navigation Protection Program

Table 4 Record of Communication with Transport Canada Navigation Protection Program

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Transport Canada Navigation Protection Program	Email from York Region	Letter introducing York Region Sewage Works Project	14/06/2023	Email from ONT Environment to York Region	<p>Please note that Transport Canada does not require receipt of all individual or Class EA related notifications. We are requesting project proponents self-assess if their project:</p> <ol style="list-style-type: none"> Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at www.tbs-sct.gc.ca/dfrp-rbif/, and Will require approval and/or authorization under any Acts administered by Transport Canada* available at http://www.tc.gc.ca/eng/acts-regulations/menu.htm. <p>Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 82 of the Impact Assessment Act, 2019.</p> <p>If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence, and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded electronically to EnviroOnt@tc.gc.ca with a brief description of Transport Canada's expected role.</p> <p>*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:</p> <ul style="list-style-type: none"> Canadian Navigable Waters Act (CNWA) – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: http://www.tc.gc.ca/eng/programs-621.html. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863. Railway Safety Act (RSA) – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: https://www.tc.gc.ca/eng/railsafety/menu.htm. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985. Transportation of Dangerous Goods Act (TDGA) – the transportation of dangerous goods by air, marine, rail and road are regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information about the transportation of dangerous goods is available at: https://www.tc.gc.ca/eng/tdg/safety-menu.htm. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868. Aeronautics Act – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds to commercial and recreational flight paths. The <i>Land Use In The Vicinity of Aerodromes</i> publication recommends guidelines for and uses in the vicinity of aerodromes, available at: https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm. Enquiries can be directed to aviation.ont@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Ministry of Citizenship and Multiculturalism

Table 5 Record of Communication with Ministry of Citizenship and Multiculturalism

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date of communication	Method of communication (Stakeholders involved)	Content of communication
Ministry review of marine archaeological assessment for Duffin Creek WPCP outfall	26/06/2023	Andrea K Williams	Letter	<p>Provided the following in response to submission of the Marine Archaeological Assessment for Duffin Creek Water Pollution Control Plant outfall:</p> <ul style="list-style-type: none"> – Satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the terms and conditions for a marine archaeological licence. – This report will be entered into the Ontario Public Register of Archaeological Reports. 	N/A	N/A	N/A
Meeting to discuss approach for cultural heritage in YDSS north study area and follow up	17/07/2023	Karla Barboza Dan Minkin	Meeting	<p>MCM and the project team discussed the project team's proposed approach to describing existing baseline cultural heritage resources and cultural heritage landscapes and MCM's responses.</p> <p>MCM indicated they would provide an example of how cultural heritage resources were documented on another project that was similar in scale.</p> <p>MCM asked if Indigenous Nations were going to be provided the Cultural Heritage Reports.</p>	N/A	N/A	N/A
	18/07/2023	Karla Barboza	Email from MCM to TMHC	<p>Provided link to the Ontario Line Cultural Heritage Report as an example and noted differences between two projects.</p>	18/07/2023	Email from TMHC to MCM	<p>Provided template for impacts and options/recommendations for each property.</p>
					21/07/2023	Email from MCM to TMHC	<p>Responded that they were comfortable with the approach.</p>
Cultural heritage reports	17/09/2023	Karla Barboza and Dan Minkin	Outbound email (GHD to MCM)	<p>Provided three draft cultural heritage reports for review:</p> <ul style="list-style-type: none"> – Richmond Hill, Aurora, Newmarket and East Gwillimbury Cultural Heritage Report (YDSS North), prepared by TMHC. – Primary Trunk Cultural Heritage Report, prepared by ASI. – Markham Collector Twinning Cultural Heritage Report, prepared by ASI. <p>Also provided PIF numbers for the archaeological reports:</p> <ul style="list-style-type: none"> – Primary Trunk (ASI): P094-0355-2023. – Markham Collector (ASI): P380-0099-2023. – Duffin Creek WPCP (ASI): P094-0357-2023. – Richmond Hill, Aurora, Newmarket and East Gwillimbury Cultural Heritage Report (YDSS North) (TMHC): P450-0089-2023. 	06/10/2023	Letter from MCM	<p>Provided comments on the cultural heritage reports (included in Appendix H).</p>



Ministry of Natural Resources and Forestry (Aurora District)

Table 6 Record of Communication with Ministry of Natural Resources and Forestry (Aurora District)

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter and meeting	13/06/2023	Julie Simard	Email from York Region	Letter introducing York Region Sewage Works Project	24/07/2023	Email from Jody Marks (MNRF) to York Region	The ministry is interested in being consulted during the development of the project report. Please add my contact information to your mailing list.
					05/09/2023	Outbound email to Jody Marks (GHD to MNRF)	<p>Confirmed Jody Marks, MNRF, was added to project contact list, offered meeting to discuss Project, and provided summary of consultation with MNRF to date:</p> <ul style="list-style-type: none"> – MNRF databases have been used for background screening, including Land Information Ontario, Natural Heritage Areas mapping and Natural Heritage Information Centre. <p>For the portion of the project in East Gwillimbury, Aurora, Newmarket and Richmond Hill, GHD's ecologist was in touch with Steve Varga to obtain information on existing data. Steve also provided timing windows, which have been incorporated as a mitigation measure in the Project Report.</p> <p>Existing information sources were used to document existing conditions in most of the study area. Where field surveys were conducted, they were done in accordance with MNRF policies, including Significant Wildlife Habitat Technical Guide, Significant Wildlife Habitat Criteria Schedule for Ecoregion 7E and MNRF Bat Survey protocols.</p> <p>Mitigation measures are being proposed following MNRF guidelines, including timing windows mentioned above and protection of wildlife habitat.</p>

Ministry of Transportation, Delivery Central

Table 7 Record of Communication with Ministry of Transportation, Delivery Central

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Jason White	Email from York Region	Letter introducing York Region Sewage Works Project	No response	N/A	N/A



Infrastructure Ontario

Table 8 Record of Communication with Infrastructure Ontario

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Katherine Hotrum	Email from York Region	Letter introducing York Region Sewage Works Project	No response	N/A	N/A

Toronto and Region Conservation Authority

Table 9 Record of Communication with Toronto and Region Conservation Authority

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Harsimrat Pruthi	Email from York Region	Letter introducing York Region Sewage Works Project	10/07/2023	Letter from TRCA	TRCA provided a response letter describing their commenting and review role, included in Appendix H
Background information	06/07/2023	Harsimrat Pruthi	Outbound email (GHD to TRCA)	Requested natural heritage information available from TRCA.	06/07/2023 to 14/07/2023	Inbound email (TRCA to GHD)	Provided data as requested
Project introduction meeting and data sharing agreement	22/07/2023	TRCA staff	Outbound Email (GHD to York Region)	Provided summary of introductory meeting, included in Appendix F	02/08/2023	Inbound email from Harsimrat Pruthi (TRCA to GHD)	Confirmed no feedback on meeting minutes
Working conceptual designs and data sharing agreement	11/08/2023	Harsimrat Pruthi	Email from GHD to TRCA	Provided access to working conceptual design and requested comments by end of day Friday, Aug. 25.	31/08/2023	Letter from TRCA to York Region	TRCA provided a letter with comments on the conceptual design. York Region provided responses to comments in a letter dated October 28, 2023. Comments and responses are included in Appendix H.
Receiving water impact assessment	07/09/2023	TRCA staff	Outbound email (GHD to TRCA)	Provided summary of Receiving Water Impact Assessment meeting, included in Appendix F	14/09/2023	Inbound email (TRCA to GHD)	Confirmed no comments on meeting minutes



Lake Simcoe Region Conservation Authority

Table 10 Record of Communication with Lake Simcoe Region Conservation Authority

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Taylor Stevenson	Email from York Region	Letter introducing York Region Sewage Works Project	16/06/2023	Email from LSRCA to York Region	Confirmed LSRCA is interested in being consulted during the development of the Project Report.
Data request	06/07/2023	Amy Douglas	Outbound email (GHD to LSRCA)	Requested natural heritage data from LSRCA	07/07/2023 and 14/07/2023	Inbound email from Taylor Stevenson (LSRCA to GHD)	Provided natural heritage data available from LSRCA, we have copied our natural heritage ecologist, Jessica Chan, who can help you with this request. Please note that in-water works timing window are set by the Ministry of Northern Development, Mines, Natural Resources and Forestry (MNDMNR). Please contact the Aurora District office for this information.
Project introduction meeting	22/07/2023	LSRCA Staff	Outbound email to Taylor Stevenson (GHD to LSRCA)	Provided summary of introductory meeting, included in Appendix F	N/A	N/A	N/A
Working conceptual designs	11/08/2023	Taylor Stevenson	Outbound email (GHD to LSRCA)	Provided access to working conceptual design and requested comments by end of day Friday, Aug. 25.	21/08/2023	Inbound email (LSRCA to GHD)	LSRCA provided comments on the conceptual design via email. York Region provided responses to comments in a letter dated October 28, 2023. Comments and responses are included in Appendix H.

Metrolinx

Table 11 Record of Communication with Metrolinx

Purpose of Communication	Original Communication				Response to Original Communication		
	Date of communication	Agency Member Contacted	Method of Communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project Introduction Letter	13/06/2023	Pam Foster	Email from York Region	Letter introducing York Region Sewage Works Project	No response	N/A	N/A

Canadian National Railway Company

Table 12 Record of Communication with Canadian National Railway Company

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	13/06/2023	Canadian National Railway Company	Email	Letter introducing York Region Sewage Works Project	No response received	N/A	N/A

Parks Canada

Table 13 Record of Communication with Parks Canada

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	01/06/2023	Kimberlee Trainor	Email sent to York Region from the Indigenous Relations Advisor for Rouge National Urban Park (RNUP)	Note that Rouge National Urban Park recently received an inquiry regarding the planned work for the York Durham region sewer works project for, which includes a portion of the work to be conducted within the park boundary. Inquired if Parks Canada can get a copy of the planned work or project brief.	16/06/2023	Email from GHD to Kimberlee Trainor	Provided slide deck introducing the project and a copy of the letter that was sent to Indigenous communities. Confirmed that none of the infrastructure components will be within the boundaries of Rouge Park.

Ministry of the Environment, Conservation and Parks (MECP)

Table 14 Record of Communication with Ministry of the Environment, Conservation and Parks

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Agency member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Indigenous consultation	04/25/2023	Minister Piccini	Letter from MECP to York Region and Durham Region	Provided a letter identifying the Indigenous communities that York and Durham Regions are required to consult with under Section 5 of the Act, included in Appendix H.	No response	N/A	N/A
Existing condition information	30/06/2023	Species at Risk	Outbound email (GHD to MECP)	Requested confirmation of Species at Risk that are documented in the study area.	No response	N/A	N/A
Indigenous consultation plan	07/09/2023	Tom North	Email sent from York Region to MECP	Provided Indigenous and interested persons consultation plans for Ministry's review.	30/08/2023	Email comments received from MECP to York Region	Noted that Ministry staff did not identify any significant concerns with the consultation plan and encouraged an open dialogue as the consultations proceeded to discuss progress and proactively identify solutions.
Schedule for submission	28/08/2023	Minister David Piccini	Letter from Minister David Piccini to York Region	Provided a letter to York Region and Durham Region setting September 30, 2023, as the date for submission of a draft Project Report and October 31, 2023, as the date for submission of the final Project Report, included in Appendix H.	29/09/2023	Letter from York Region to Minister Andrea Khanjin	As requested by Minister Piccini, York Region submitted the Draft York Region Sewage Works Project Report, Draft York Region Sewage Works Indigenous Communities Consultation Report (Interim Report), and Draft York Region Sewage Works Interested Persons Consultation Report (Interim Report)
Receiving water impact assessment	18/09/2023	Tom North	Email sent from York Region to MECP	Provided Receiving Water Impact Assessment (RWIA) report as requested.	No response	N/A	N/A
Draft project report	04/10/2023	Tom North	Emails from MECP to York Region	MECP provided comments on the Draft Project Report via three emails dated October 4, 2023, October 11, 2023 and October 18, 2023. Comments are included in York Region's response letter dated October 26, 2023, included in Appendix H.	26/10/2023	Letter from York Region to MECP	York Region provided responses to MECP's comments on the Draft Project Report, which are included in Appendix H.



Record of Meetings with Local Municipalities

Table 1 Record of Meetings with Local Municipalities

Meeting number	Meeting date and time	Participants	Subject
1	July 5, 2023 (10 to 11 a.m.)	City of Pickering	Project introduction
2	July 5, 2023 (10 a.m. to 12 p.m.)	City of Markham Town of Whitchurch-Stouffville	Project introduction
3	July 13, 2023 (1 to 2 p.m.)	Town of Ajax	Project introduction
4	July 17, 2023 (9 to 10 a.m.)	Town of Aurora Town of Newmarket Town of Whitchurch-Stouffville	Project introduction
5	July 17, 2023 (10:30 to 11:30 a.m.)	City of Richmond Hill	Project introduction
6	July 19, 2023 (3:30 to 4:30 p.m.)	Town of East Gwillimbury	Project introduction
7	July 31, 2023 (10 to 11 a.m.)	Township of King City of Vaughan	Project introduction
8	August 11, 2023 (2 to 3 p.m.)	Town of Ajax	Working conceptual designs overview
9	August 14, 2023 (3 to 4 p.m.)	Town of Aurora	Working conceptual designs overview
10	August 16, 2023 (4 to 5 p.m.)	City of Pickering	Working conceptual designs overview
11	August 16, 2023 (1 to 2 p.m.)	Town of Newmarket	Working conceptual designs overview
12	August 18, 2023 (2 to 3 p.m.)	Town of East Gwillimbury City of Richmond Hill	Working conceptual designs overview
13	August 18, 2023	Local Municipalities Commissioners	Project introduction
14	September 6, 2023	Town of Ajax TRCA	Receiving water impact assessment preliminary results



Record of Communications with Local Municipalities

Town of Aurora

Table 2 Record of Communication with Town of Aurora

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	02/06/2023	Sara Tienkamp	Email sent by York Region to Town of Aurora	Provided introductory letter with request for meeting.	05/06/2023	Email was sent by Town of Aurora to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Cultural heritage survey and report	22/06/2023	Town of Aurora Heritage Planning	Email sent by TMHC Inc. to Town of Aurora	Requested municipally registered heritage resources in the study area.	23/06/2023	Email sent from Adam Robb from Town of Aurora to TMHC	Provided link to heritage register.
Conceptual designs package	11/08/2023	Sara Tienkamp	Outbound email (GHD to Town of Aurora)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A

Town of East Gwillimbury

Table 3 Record of Communication with Town of East Gwillimbury

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	02/06/2023	Mike Molinari	Email sent by York region to Town of East Gwillimbury	Provided introductory letter with request for meeting.	5/06/2023	Email sent by Town of East Gwillimbury to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Cultural heritage survey	22/06/2023	Victoria Moore	Email from TMHC Inc. was sent to Town of East Gwillimbury	Requested municipally registered heritage resources in the study area.	20/07/2023	Email sent by Victoria Moore (Town of East Gwillimbury to Josh from TMHC Inc.)	Provided link to register.
Meeting to discuss conceptual designs	4/08/2023	Mike Molinari	Outbound email (GHD to Town of East Gwillimbury)	Advised that working conceptual designs will be released and offered meeting to review.	4/08/2023	Inbound email sent by Kevin Brake (Town of East Gwillimbury to GHD)	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package	11/08/2023	Mike Molinari	Outbound email (GHD to Town of East Gwillimbury)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A



Town of Georgina

Table 4 Record of Communication with Town of Georgina

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter and meeting	02/06/2023	Denis Beaulieu	Email sent by York Region to Town of Georgina	Provided introductory letter with request for meeting.	02/06/2023	Email sent by Town of Georgina to York Region	Inquired about type of input expected, given that Georgina is not on the YDSS.
					27/06/2023	Email from York Region to Town of Georgina	Noted that York Region expects that those municipalities on YDSS would be directly impacted and more interested in providing input (East Gwillimbury, Aurora, Newmarket, Richmond Hill, Markham, Ajax and Pickering) but wanted to provide everyone with the opportunity to meet and discuss the project.
	4/08/2023	Denis Beaulieu	Outbound email (GHD to Town of Georgina)	Advised that working conceptual designs will be released and offered meeting to review.	No response received.	N/A	N/A
Conceptual designs package	11/08/2023	Denis Beaulieu	Outbound email (GHD to Town of Georgina)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A

Township of King

Table 5 Record of Communication with Township of King

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	02/06/2023	Samantha Fraser	Email sent by York Region to Township of King	Provided introductory letter with request for meeting.	05/06/2023	Email sent by Township of King (from Tara McDonald) to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Meeting to discuss conceptual designs	4/08/2023	Samantha Fraser	Outbound email (GHD to Township of King)	Advised that working conceptual designs will be released and offered meeting to review.	4/08/2023	Inbound email sent by Samantha Fraser (Township of King to GHD)	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package	11/08/2023	Samantha Fraser and Kyle Snell	Outbound email (GHD to Township of King)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A



City of Markham

Table 6 Record of Communication with City of Markham

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality members contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter and meeting	02/06/2023	Frank Clarizio	Email sent by York Region to City of Markham	Provided introductory letter with request for meeting.	22/07/2023	Email from City of Markham to GHD	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Meeting to discuss conceptual designs	4/08/2023	Frank Clarizio	Outbound email (GHD to City of Markham)	Advised that working conceptual designs will be released and offered meeting to review.	17/08/2023	Email from City of Markham to GHD	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package and meeting	11/08/2023	Christopher Kalimootoo	Outbound email (GHD to City of Markham)	Provided link to working conceptual designs with request for comments by August 25, 2023.	22/09/2023	Inbound email (City of Markham to GHD)	Provided comments on the conceptual designs, included in Appendix H.
					28/10/2023	Letter from York Region to City of Markham	Provided responses to comments on conceptual designs, included in Appendix H.

Town of Newmarket

Table 7 Record of Communication with Town of Newmarket

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter	02/06/2023	Rachel Prudhomme	Email sent by York Region to Town of Newmarket	Provided introductory letter with request for meeting.	10/07/2023	Email from Town of Newmarket to GHD	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Cultural heritage survey	22/06/2023	Town of Newmarket Planning Department	Email sent by TMHC to Town of Newmarket	Requested cultural heritage information.	23/06/2023 to 29/06/2023	Email from Umar Mahmood (Town of Newmarket) to Joshua Dent from Town of Newmarket	Provided non-designated heritage properties.
Meeting to discuss working conceptual designs	4/08/2023	Rachel Prudhomme	Outbound email (GHD to Town of Newmarket)	Advised that working conceptual designs will be released and offered meeting to review.	4/08/2023	Inbound email sent by Rachel Prudhomme (Town of Newmarket to GHD)	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package	11/08/2023	Rachel Prudhomme	Outbound email (GHD to Town of Newmarket)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A



City of Richmond Hill

Table 8 Record of Communication with City of Richmond Hill

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Cultural heritage survey	27/06/2023	Planning Richmond Hill	Email from TMHC Inc. Was sent to City of Richmond Hill	Requested cultural heritage information.	28/06/2023	Email was sent to Planning Richmond Hill	Provided link to cultural heritage inventory
Project introduction	02/06/2023	Paolo Masaro	Email sent by York Region to City of Richmond Hill	Provided introductory letter with request for meeting.	02/06/2023	Email sent by City of Richmond Hill to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Meeting to discuss the overview of the working conceptual designs	04/08/2023	Paolo Masaro	Outbound email (GHD to City of Richmond Hill)	Advised that working conceptual designs will be released and offered meeting to review.	17/08/2023	Inbound email from Rahima Munshi (City of Richmond Hill to GHD)	Confirmed attendance at meeting.
Conceptual designs package	11/08/2023	Rahima Munshi	Outbound email (GHD to City of Richmond Hill)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A

City of Vaughan

Table 9 Record of Communication with City of Vaughan

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter and meeting	02/06/2023	Jack Graziosi	Email from York Region to City of Vaughan	Provided introductory letter with request for meeting.	24/07/2023	Outbound email to Morgani Stephanie (GHD to City of Vaughan)	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Overview of the working conceptual designs	4/08/2023	Jack Graziosi (Interim)	Outbound email (GHD to City of Vaughan)	Advised that working conceptual designs will be released and offered meeting to review.	No response received.	N/A	N/A
Conceptual designs package	11/08/2023	Michael Frieri	Outbound email (GHD to City of Vaughan)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A



Town of Whitchurch-Stouffville

Table 10 Record of Communication with Town of Whitchurch-Stouffville

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction letter and meeting	02/06/2023	Brian Kavanagh	Email sent by York Region to Town of Whitchurch-Stouffville	Provided introductory letter with request for meeting.	05/06/2023	Email from Town of Whitchurch-Stouffville to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Meeting to provide an overview of the working conceptual designs	4/08/2023	Brian Kavanagh	Outbound email (GHD to Town of Whitchurch-Stouffville)	Advised that working conceptual designs will be released and offered meeting to review.	No response received.	N/A	N/A
Conceptual designs package	11/08/2023	Jack Graziosi	Outbound email (GHD to Town of Whitchurch-Stouffville)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A

City of Pickering

Table 11 Record of Communication with City of Pickering

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction and working conceptual designs meetings	02/06/2023	Richard Holborn	Email sent by York Region to City of Pickering	Provided introductory letter with request for meeting.	27/06/2023	Outbound meeting invite email (GHD to City of Pickering)	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package	11/08/2023	Richard Holborn	Outbound email (GHD to City of Pickering)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A



Town of Ajax

Table 12 Record of Communication with Town of Ajax

Purpose of communication	Original communication				Response to original communication		
	Date of communication	Local municipality member contacted	Method of communication	Content of communication	Date	Method of communication (Stakeholders involved)	Content of communication
Project introduction and working conceptual designs meetings	02/06/2023	Geoff Romanowski	Email sent by York Region to Town of Ajax	Provided introductory letter with request for meeting.	02/06/2023	Email sent by Town of Ajax to York Region	Confirmed attendance at meeting. Meeting summary included in Appendix F.
Conceptual designs package	11/08/2023	Geoff Romanowski	Outbound email sent to Geoff Romanowski (GHD to Town of Ajax)	Provided link to working conceptual designs with request for comments by August 25, 2023.	No response received	N/A	N/A
Preliminary results of receiving water impact assessment	07/09/2023	Outbound email sent to Geoff Romanowski (GHD to Town of Ajax)	Ajax Staff	Provided summary of meeting on receiving water impact assessment, included in Appendix F.	No response received	N/A	N/A



Record of Communications with Public

Table 1 Record of Communication with Public

Date of communication	Name of individual from the public communication was with	Method and organization that sent the communication	Summary of communication	Date of response	Method of response	Summary of communication
12/07/2023	Aurora Museum & Archives	Email was sent by Sheila Creighton from TMHC Inc. to Aurora Museum & Archives	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	Aurora Historical Society	Email was sent by Sheila Creighton from TMHC Inc. to Aurora Historical Society	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	12/07/2023	Email was sent by Aurora Historical Society to Sheila Creighton	<p>In regard to the email below, the Aurora Historical Society has only one location, which is Hillary House, located at 15372 Yonge Street in Aurora. Therefore, the project routes outlined in the email below would not impact Hillary House National Historic Site.</p> <p>The Town of Aurora, along with the Town of Aurora's Heritage Advisory Committee and/or the Aurora Museum and Archives, should be able to address your email below in regard to any heritage sites impacted by the project.</p> <p>The Town of Aurora's Heritage Advisory Committee Staff Liaison: Brashanthe Manoharan, Heritage Planner/Planner, 905-727-3123 ext. 4349 bmanoharan@aurora.ca</p> <p>The Aurora Museum & Archives contact is: Michelle Johnson, Collections & Exhibitions Coordinator 365-500-3178 museum@aurora.ca</p>
12/07/2023	Aurora Cultural Centre	Email was sent by Sheila Creighton from TMHC Inc. to Aurora Cultural Centre	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	Aurora Historical Society	Email was sent by Sheila Creighton from TMHC Inc. to Aurora Historical Society	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	Sharon Temple	Email was sent by Sheila Creighton from TMHC Inc. to Sharon temple	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	ACO Newmarket	Email was sent by Sheila Creighton from TMHC Inc. to ACO Newmarket	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	Elman W. Campbell Museum	Email was sent by Sheila Creighton from TMHC Inc. to Elman W. Campbell Museum	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
12/07/2023	Newmarket Historical Society	Email was sent by Sheila Creighton from TMHC Inc. to Newmarket Historical Society	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	/N/A	N/A

Date of communication	Name of individual from the public communication was with	Method and organization that sent the communication	Summary of communication	Date of response	Method of response	Summary of communication
12/07/2023	Richmond Hill Historical Society	Email was sent by Sheila Creighton from TMHC Inc. to Richmond Hill Historical Society	Requested information on any heritage properties or heritage landscapes not on the municipal heritage register.	No response received	N/A	N/A
19/07/2023	Resident (Name redacted)	Email from resident to York Region	I believe that the date for the consultation responses deadline re the sewage works project is incorrect. August 25 is not a Monday; it's a Friday.	11/09/2023	Reply email was sent by York Region to resident	Thank you for your interest in this Project. As requested, we have added you to the Project contact list. You will be notified when the Project Report is released (currently anticipated for late October 2023). If you have any questions in the meantime, please do not hesitate to contact us.
20/07/2023	Resident (Name redacted)	Email from resident to York Region	Please add me to receive updates on the above project. No streets are indicated on your map, which doesn't give residents any information about how this will affect our homes. Please add these so that we may be well informed.	25/08/2023	Reply email was sent by York Region to resident	Thank you for your interest in this project. The proposed location of the new infrastructure will be shown in the Project Report. We have added you to the contact list, so you will be notified when it is published. In the Queensville area, a new sewage pumping station is proposed in the vicinity of Queensville Sideroad and Leslie Street. In addition, new forcemains are proposed on Leslie Street to connect that pumping station to infrastructure in Sharon. At this time, no infrastructure is proposed in front of 21145 Leslie Street.
27/07/2023	Resident (Name redacted)	Email from resident to York Region	Please include me in future correspondence/public consultation on the York Dufferin Sewage Project. Why is Vaughan not included as one of the towns in the ad? Is it because the infrastructure physically doesn't pass through Vaughan? Will any of the new servicing capacity created be required/allocated to Vaughan in the future? If this project is not contemplating servicing capacity for Vaughan please advise? Below is an explanation for my question. Vaughan is dependent on servicing capacity from Peel, Kleinburg W/W Treatment Plant (to be decommissioned) and the Duffin Creek W/W Treatment Plant. If Vaughan is to accelerate growth to meet the 2031 housing target pledge, it's unclear to me if capacity from the first Duffins Creek ongoing upgrade will be complete and available. Most of this servicing capacity for Vaughan appears to already be gobbled up with the advancement of infrastructure for Block 27, approved June 2020, which will service predominately Greenfield Development in NE Vaughan (north of Teston between Keele & Pine Valley, more or less). The VMC population is rising significantly faster and well above projections. Metrolinx recently released an initial business case for the Concord Go Station and suggests the possibility of yet another TOC. These are both potentially significant population increases requiring servicing capacity above & beyond what's currently planned, to my knowledge. Even with optimization and other efficiencies, it's hard to imagine how servicing at the densities contemplated in development applications could reasonably be achieved. Even outside of the VMC, we have significant development proposed, like RioCan's Colossus with 13000 units at a density of over 1400 ppl and jobs/Ha. The scale and timing of these development applications do not appear to have been contemplated in York Region's recently approved Official Plan and supporting Wastewater MP.	25/08/2023	Reply email was sent by York Region to resident	Thank you for your questions. The Supporting Growth and Housing in York and Durham Regions Act (Act) requires that York and Durham Region do everything in their powers to enlarge and improve the York Durham Sewage System (YDSS) to convey sewage from the Upper York communities in the towns of Aurora, Newmarket and East Gwillimbury to the Duffin Creek Plant in Durham Region. As per section 3(2) of the Act, the Region is reviewing the YDSS and Duffin Creek Plant in order to identify improvements and upgrades to ensure there is sufficient capacity to convey and treat the forecasted wastewater flows. The new YDSS components will become the York Region Sewage Works Project. As you have noted, Vaughan is serviced by sending flows to the Region of Peel, Duffin Creek WPCP, and the Kleinburg Water Resource Recovery Facility. Vaughan's development has been considered in the Regional Official Plan up to 2051. The review of the Duffin Creek Plant incorporates higher population to achieve the Provincial housing targets. Two of our critical YDSS sewers taking flows to the Duffin Creek WPCP; the Primary Trunk Sewer Twinning is underway with construction completion planned for around 2030, and the Region's South East Collector sewer was recently commissioned in 2014. While the York Region Sewage Works Project will be addressing the growth needs of the Upper York Area, growth in other areas of the Region will be monitored, and future updates to the Water and Wastewater Master Plans will take that scale of growth into account and make adjustments accordingly.
01/10/2023	Resident (Name redacted)	Email from resident to York Region	Can you advise if the Region has sewer capacity based on the number of applications at this time, or is there a waitlist? If there is a waitlist, what future dates are being anticipated?	06/10/2023	Reply email was sent by York Region to resident	The sewage servicing capacity of the existing York Durham Sewage System has been allocated to local municipalities to the year 2026; the planning department of respective municipalities will be able to update you on the availability of sewage servicing capacity based on the status of development in the communities. Pending Provincial approval of the York Region Sewage Works Project, additional sewage servicing capacity could be available for allocation among applicable local municipalities upon the completion of the critical components of the project.

Appendix B

Introductory letters

B-1 Local Municipalities

The following municipalities received the same version of the letter:

- City of Pickering
- City of Markham
- Town of Whitchurch-Stouffville
- Town of Ajax
- Town of Aurora
- Town of Newmarket
- Town of Whitchurch-Stouffville
- City of Richmond Hill
- Town of East Gwillimbury
- Township of King
- City of Vaughan

June 1, 2023

paolo.masaro@richmondhill.ca

Paolo Masaro
Executive Director of Infrastructure and Engineering Services
City of Richmond Hill
225 East Beaver Creek Road
Richmond Hill, ON L4B 3P4

Attention: Paolo Masaro, Executive Director of Infrastructure and Engineering Services, City of Richmond Hill

Dear Paolo Masaro:

Re: York Region Sewage Works Project

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project and request participation of the City of Richmond Hill in this project.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

As required by the *Act*, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts. To meet timelines stipulated by the Ontario government, this Project Report will be prepared in the coming months and submitted to the Minister of Environment, Conservation and Parks by **October 2023** for approval. A copy of the Project Report will be shared with local municipalities upon completion. The Minister's approval does not impact other federal, provincial or municipal approvals that may be required for individual project components, including Environmental Compliance Approvals.

We would like to request a meeting with the City of Richmond Hill by **Monday, June 15, 2023**, to discuss the project and how your staff will be consulted in the coming months as the Project Report is being prepared.

We appreciate your consideration of this request and look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Rabeau', written in a cursive style.

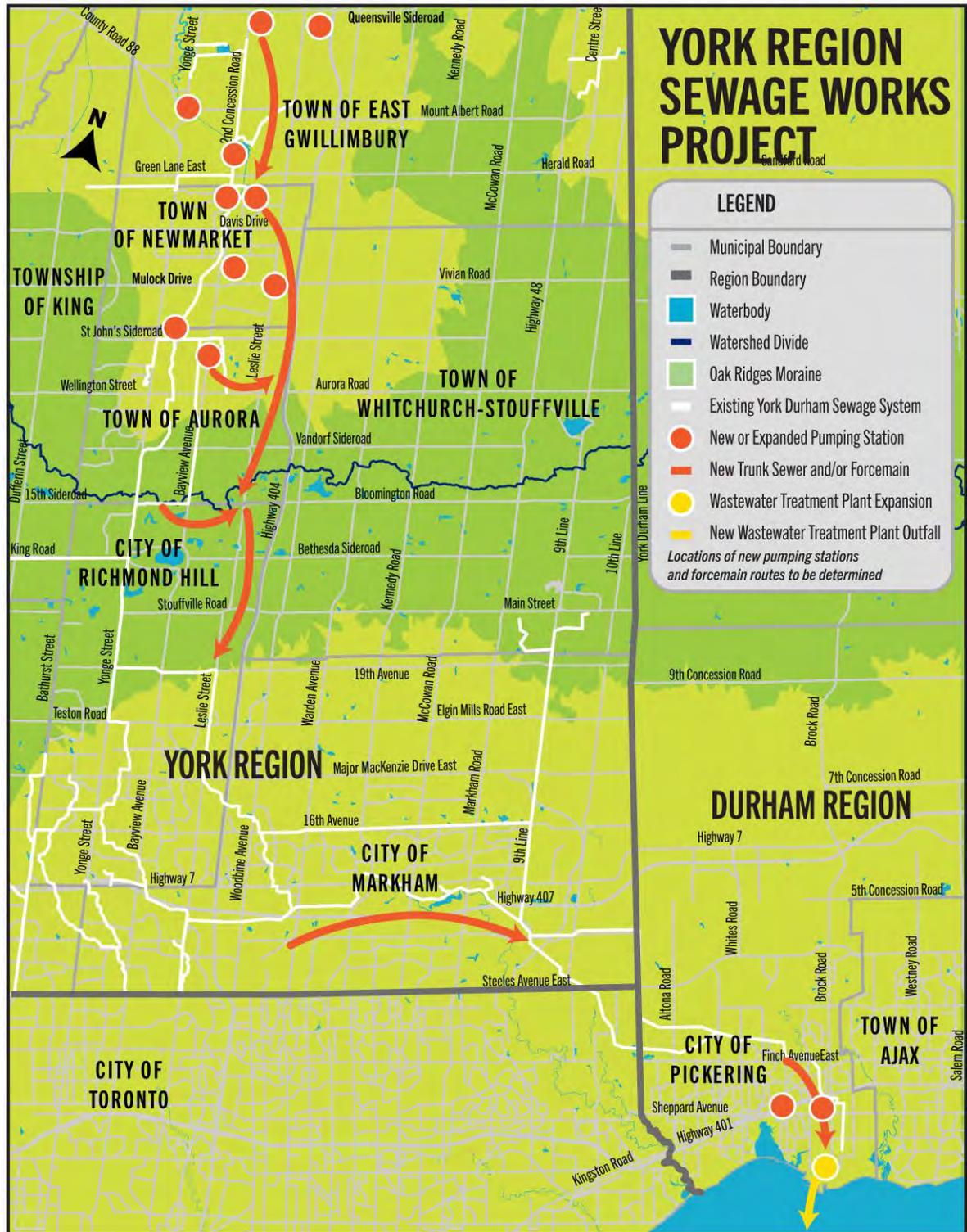
Mike Rabeau, P.Eng.
General Manager, Capital Infrastructure Services, Public Works
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

SH/jm

Attachment (1): Map - York Region Sewer Works Project

cc: Erin Mahoney, Commissioner of Public Works, York Region
John Presta, Commissioner of Public Works, Durham Region
Pina Accardi, Director (A), Capital Delivery - Water and Wastewater, Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Katrina McCullough, GHD Inc.

eDocs- #15251604



B-2 Federal, Provincial and Regional Agencies

The following agencies received the same version of the letter:

- Ministry of Citizenship and Multiculturalism – Community Engagement and Heritage Division
- Lake Simcoe Region Conservation Authority
- Toronto and Region Conservation Authority

June 13, 2023

karla.barboza@ontario.ca

Karla Barboza
Team Lead
Ministry of Citizenship and Multiculturalism
400 University Avenue
5th Floor
Toronto, ON M7A 2R9

Attention: Karla Barboza, Team Lead, Ministry of Citizenship and Multiculturalism

Dear Karla Barboza:

Re: York Region Sewage Works Project

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

As required by the *Act*, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts. To meet timelines stipulated by the Ontario government, this Project Report will be prepared in the coming months and submitted to the Minister of Environment, Conservation and Parks by **October 2023** for approval. A copy of the Project Report will be made available for your organization upon completion. The Minister's approval does not impact other federal, provincial, or municipal approvals that may be required for individual project components, including Environmental Compliance Approvals.

We will consult with your agency for permits and approvals during detailed design upon approval of the project. If your agency is interested in being consulted during development of the Project Report, please respond to the undersigned **or** Katrina McCullough, Environmental Planner and Senior Stakeholder Engagement Specialist, GHD, at katrina.mccullough@ghd.com by **Tuesday, June 27, 2023**.

We look forward to hearing from you.

Sincerely,



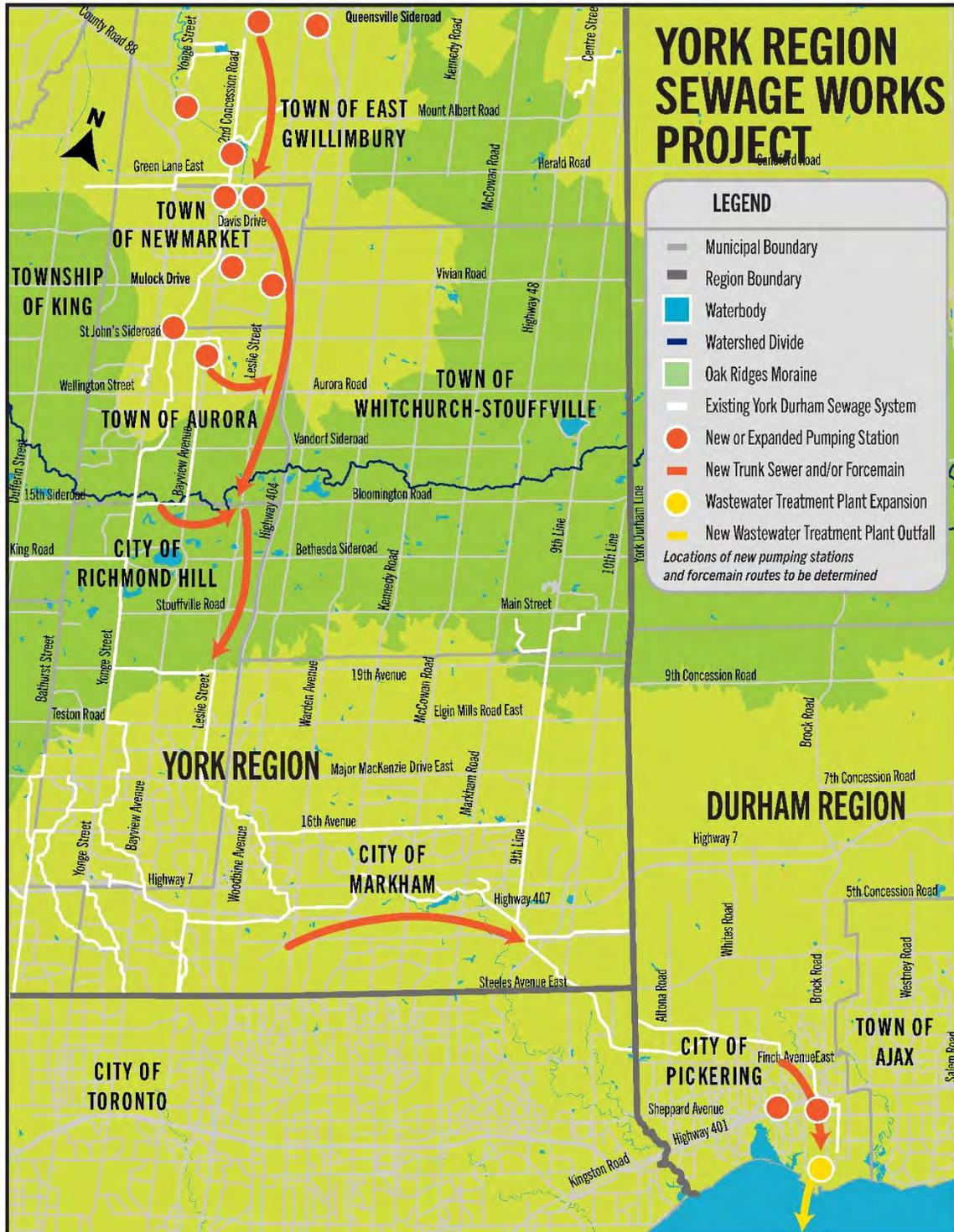
Mike Rabeau, P.Eng.
General Manager, Capital Infrastructure Services, Public Works
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

SH/jm

Attachment (1): Map - York Region Sewer Works Project

cc: Pina Accardi, Director (A), Capital Delivery - Water and Wastewater, Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
Aaron Christie, Engineering Planning and Studies, Durham Region
Tom Casher, Project Manager, GHD
Katrina McCullough, GHD
Ray Cantwell, Project Manager, Jacobs

eDocs- #15251612



Appendix C

Public Notices

Public Notice York Region Sewage Works Project

In the Towns of East Gwillimbury, Newmarket and Aurora, and
Cities of Markham, Richmond Hill and Pickering

The Regional Municipalities of York and Durham are working together to carry out the York Region Sewage Works Project, a long-term wastewater infrastructure project across the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering.

As required by the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, the York Region Sewage Works Project will increase the existing York Durham Sewage System, including new or expanded wastewater sewers, pumping stations, and enhancements to the Duffin Creek Water Pollution Control Plant on the shore of Lake Ontario in the City of Pickering.

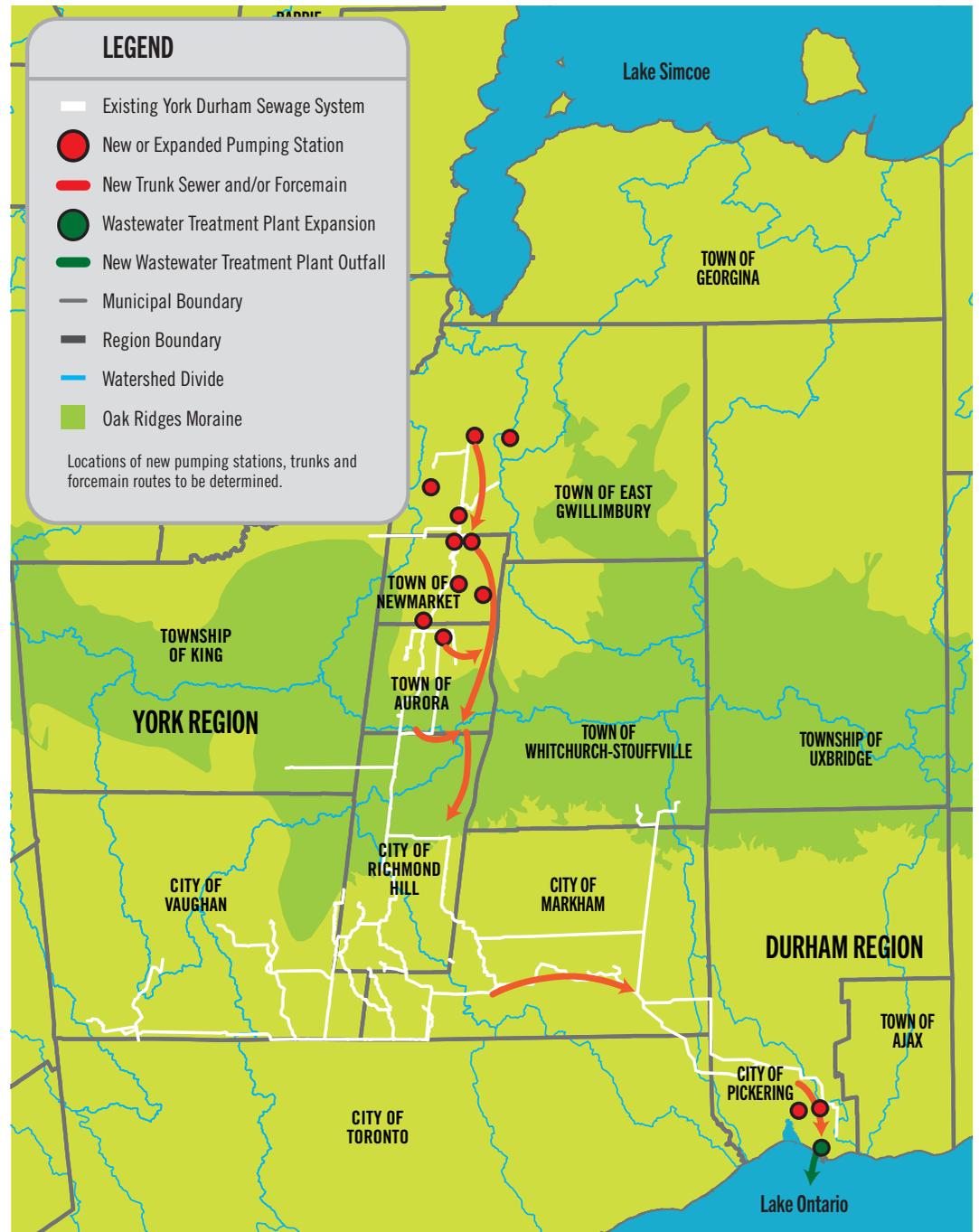
Durham Region will support proposed work within the City of Pickering as part of the project.

If you are interested in participating in the consultation, please contact York Region by Monday, August 14, 2023.

York Region
York Region Sewage Works Project
17250 Yonge Street
Newmarket, Ontario L3Y 6Z1
1-877-464-9675 ext. 75124
YorkRegionSewageWorks@york.ca

Visit york.ca/waterconstruction for more information about the project and to sign up for project updates. This notice was issued on Thursday, July 13, 2023.

An accessible version of this notice is available upon request. Please let us know if you require accommodation to participate in the project.



Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the *Municipal Freedom of Information and Protection of Privacy Act* for consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request that your personal information remain confidential.

Appendix D

Website

Project website: [York Region Sewage Works Project | York Region](https://www.york.ca/newsroom/campaigns-projects/york-region-sewage-works-project)
(<https://www.york.ca/newsroom/campaigns-projects/york-region-sewage-works-project>)

HOME > NEWSROOM > CAMPAIGNS & PROJECTS

YORK REGION SEWAGE WORKS PROJECT

The Regional Municipalities of York and Durham are working together to carry out the York Region Sewage Works Project, a long-term wastewater infrastructure project across the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering.

As required by the [Supporting Growth and Housing in York and Durham Regions Act, 2022](#), the York Region Sewage Works Project will increase the existing York Durham Sewage System, including new or expanded wastewater sewers, pumping stations and enhancements to the Duffin Creek Water Pollution Control Plant on the shore of Lake Ontario in the City of Pickering.

Durham Region will support the proposed work in the City of Pickering as part of the project.

APP CENTRE

CAMPAIGNS & PROJECTS

E-NEWSLETTER

EVENTS

MEDIA INQUIRIES

MEDIA RELEASES

NEWS

NEWSLETTER

PUBLIC CONSULTATIONS

PUBLIC NOTICES

Supporting Growth and Housing in York and Durham Regions Act, 2022

On November 28, 2022, the Ontario government passed the [Supporting Growth and Housing in York and Durham Regions Act, 2022](#).

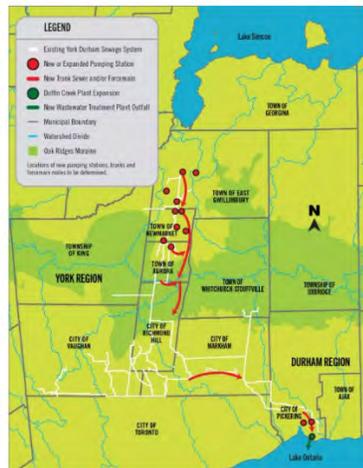
The Act mandates York Region change from the previously proposed Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that will pump, move and treat wastewater at the Duffin Creek Water Pollution Control Plant in Durham Region.

The Act requires York Region prepare a Project Report for fall 2023 outlining:

- Infrastructure components
- Impacts to the environment and how those impacts will be mitigated
- Impacts to Aboriginal or treaty rights and how those impacts will be mitigated
- Approvals and permits required

Infrastructure components in the Project Report are exempt from the Environmental Assessment Act, 2023. The Project Report will be available for public review once submitted to the Ministry of the Environment, Parks and Conservation in fall 2023.

Map of the York Region Sewage Works



Accessible formats or communication supports are available upon request.

Sign up for project updates

Enter your contact information for updates on the York Region Sewage Works Project.

[Stay Informed](#)

All interested persons will be notified by email when the Project Report is posted on York Region and Durham Region's websites for review.

Resources

[View Public Notice - July 20, 2023](#)

[Upper York Sewage Solutions](#)

[Water and Wastewater Construction Projects](#)

[Environmental Assessment Study](#)

Appendix E

Presentations

E-1 Introductory Presentation

The following municipalities and agencies received the same introductory presentation (slides may have been in a different order; however, all slides were shared):

- City of Pickering
- City of Markham
- Town of Whitchurch-Stouffville
- Town of Ajax
- Town of Aurora
- Town of Newmarket
- Town of Whitchurch-Stouffville
- City of Richmond Hill
- Town of East Gwillimbury
- Township of King
- City of Vaughan
- Ministry of Citizenship and Multiculturalism – Community Engagement and Heritage Division
- Lake Simcoe Region Conservation Authority
- Toronto and Region Conservation Authority

YORK REGION SEWAGE WORKS

PROJECT INTRODUCTION WITH YORK AND DURHAM REGION LOCAL MUNICIPALITIES

July 2023



1

AGENDA

1. Introduction and Background
2. Overview of Proposed Infrastructure and Impact Assessment Study Areas
3. Scope of Project Report
4. Consultation Plan
5. Next Steps

2

LAND ACKNOWLEDGEMENT

York and Durham Regions are located on the traditional territory of many Indigenous peoples such as the Anishinaabe, Huron-Wendat, and Haudenosaunee peoples.

York and Durham Regions fall under Treaty 13 with the Mississaugas of the Credit First Nation and the Williams Treaties with the Chippewas of Beausoleil, Georgina Island and Rama First Nations and the Mississaugas of Alderville, Curve Lake, Hiawatha and Scugog Island First Nations. There are also other land claims and treaty rights that have not been definitively resolved.

3

PROJECT CONTACTS

York Region

Project proponent

- Shu He, P.Eng. PMP, Manager of Engineering
- Jose Manalo, P.Eng. PMP, Project Manager

Durham Region

Co-proponent for work proposed within Durham Region.

- Aaron Christie, P.Eng., Manager, Engineering Planning & Studies

CONSULTANT TEAM

GHD Ltd.

Conceptual design and impact assessment for infrastructure north of 19th Avenue and consultation lead for all Project components

- Tom Casher, P.Eng., Project Manager
- Rachelle Plourde, P.Eng., Project Report Lead
- Katrina McCullough, RPP, Consultation Lead

Jacobs Consultancy Canada Inc.

Conceptual design and impact assessment for infrastructure south of 19th Avenue and Duffin Creek Water Pollution Control Plant (WPCP)

- Ray Cantwell, P.Eng., Program Manager
- Tom Mahood, P.Eng., Project Manager

Counsel Public Affairs Inc.

Indigenous Relations Advisor

- John Beaucage, Principal
- Devan Sommerville, Vice-President

4

INTRODUCTION AND BACKGROUND



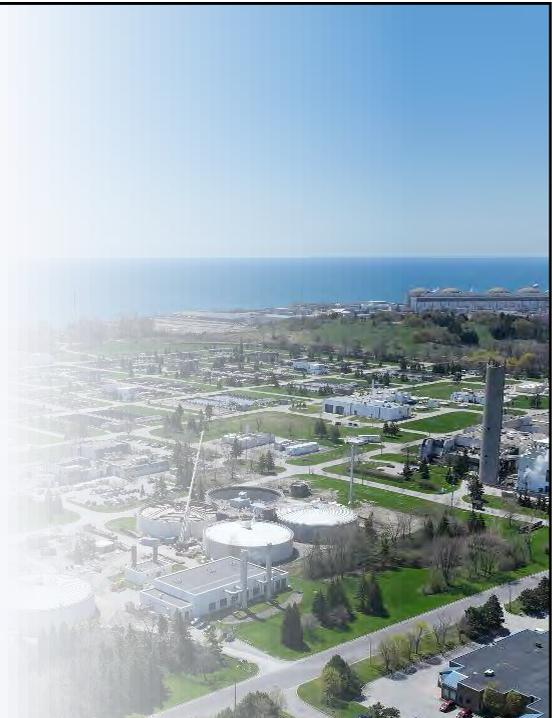
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SUPPORTING GROWTH AND HOUSING IN YORK AND DURHAM REGIONS ACT (2022)

“[The Act requires] York and Durham Regions to do everything in their powers to enlarge and improve the existing York Durham Sewage System to convey sewage from Aurora, Newmarket and East Gwillimbury to the Duffin Creek Water Pollution Control Plant in Durham Region.

This proposal would accommodate growth and housing development in the upper part of York Region to 2051.”

<https://ero.ontario.ca/notice/019-6192>



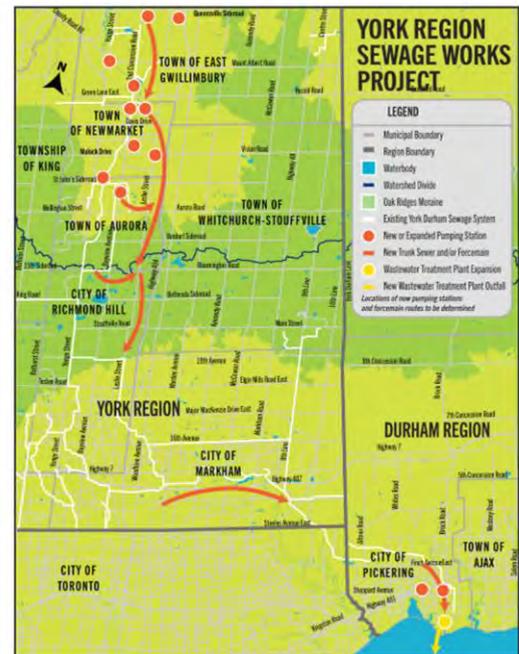
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YORK REGION SEWAGE WORKS PROJECT

York Region Sewage Works Project is defined in the *Act* as the improvement, enlargement, extension and any other modifications of the YDSS in York and Durham Regions to convey sewage from Aurora, East Gwillimbury and Newmarket

The Project includes:

- New wastewater sewers, new pumping stations and expansions to existing pumping stations in East Gwillimbury, Newmarket, Aurora, Richmond Hill, Markham and Pickering
- Expansion of the Duffin Creek WPCP in Pickering



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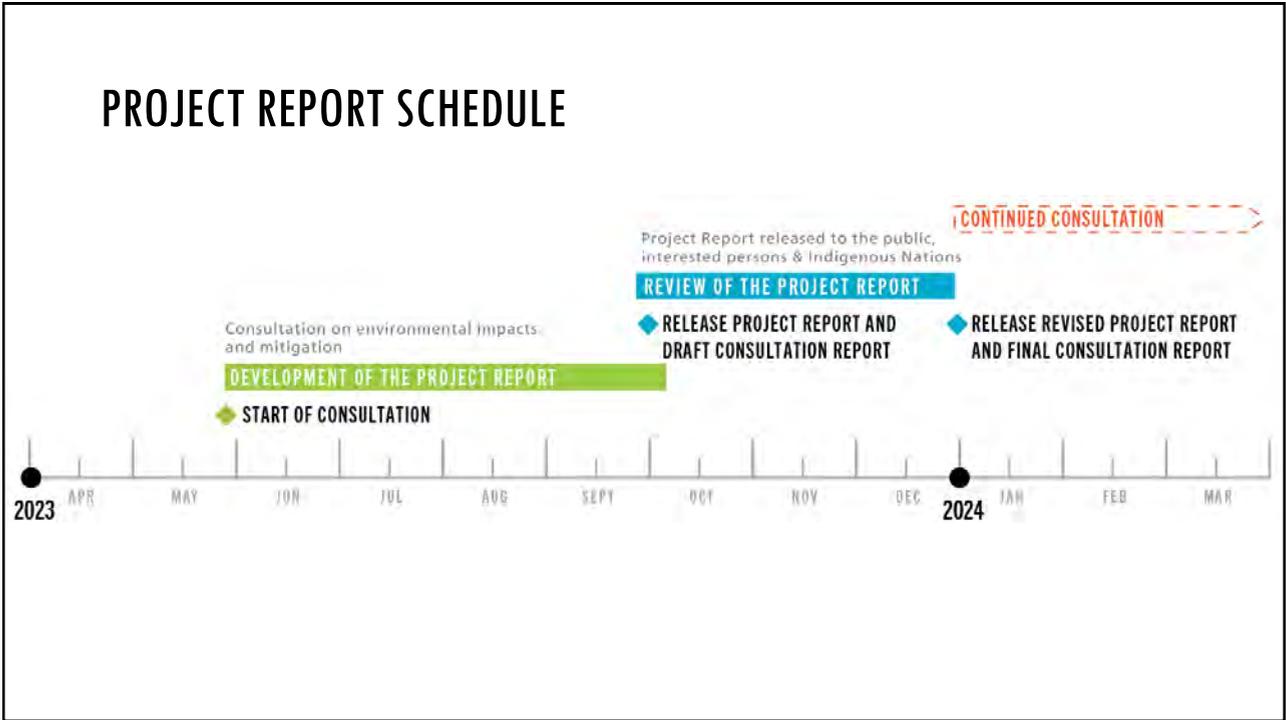
PROJECT REPORT

The *Act* requires that York Region prepare a Project Report for the Minister's review and approval. The Project Report must describe:

- The **infrastructure components** and their associated costs
- **Impacts** to the environment and how those impacts will be **mitigated**
- Impacts to **aboriginal or treaty rights** and how those impacts will be mitigated
- Other **approvals** required before construction and operation

Project components included in the Project Report are exempt from the *Environmental Assessment Act*.

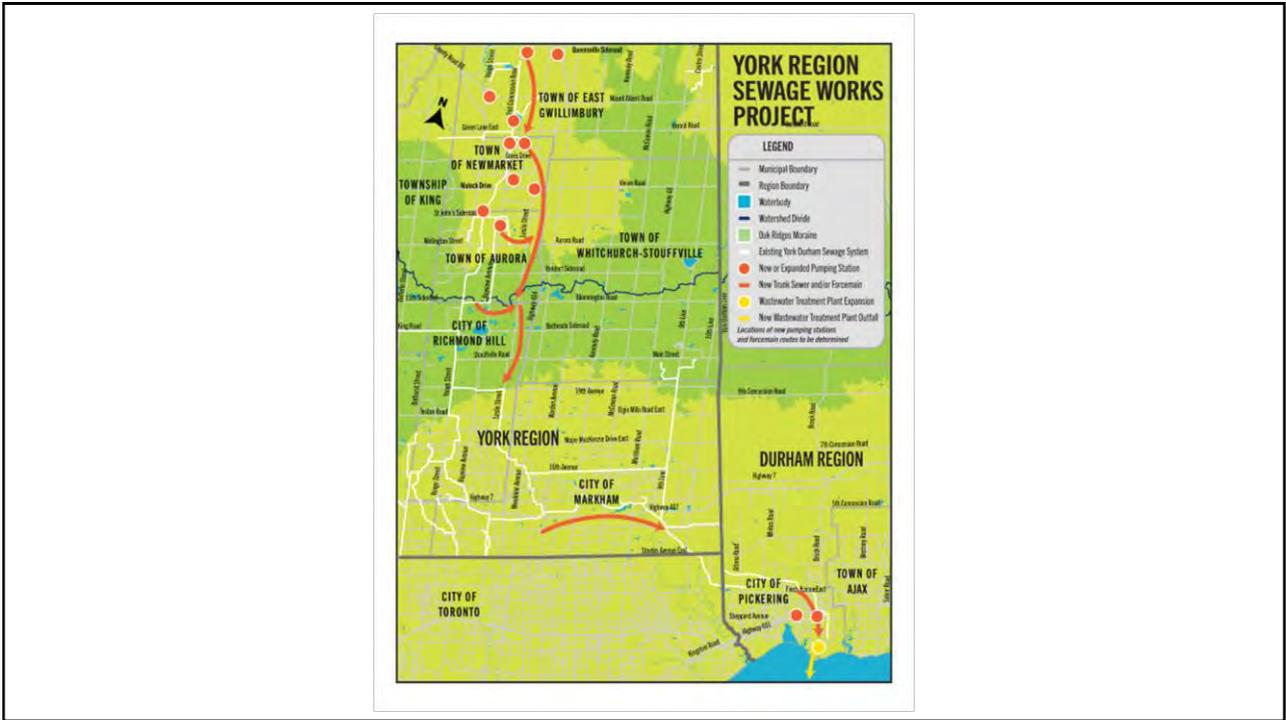
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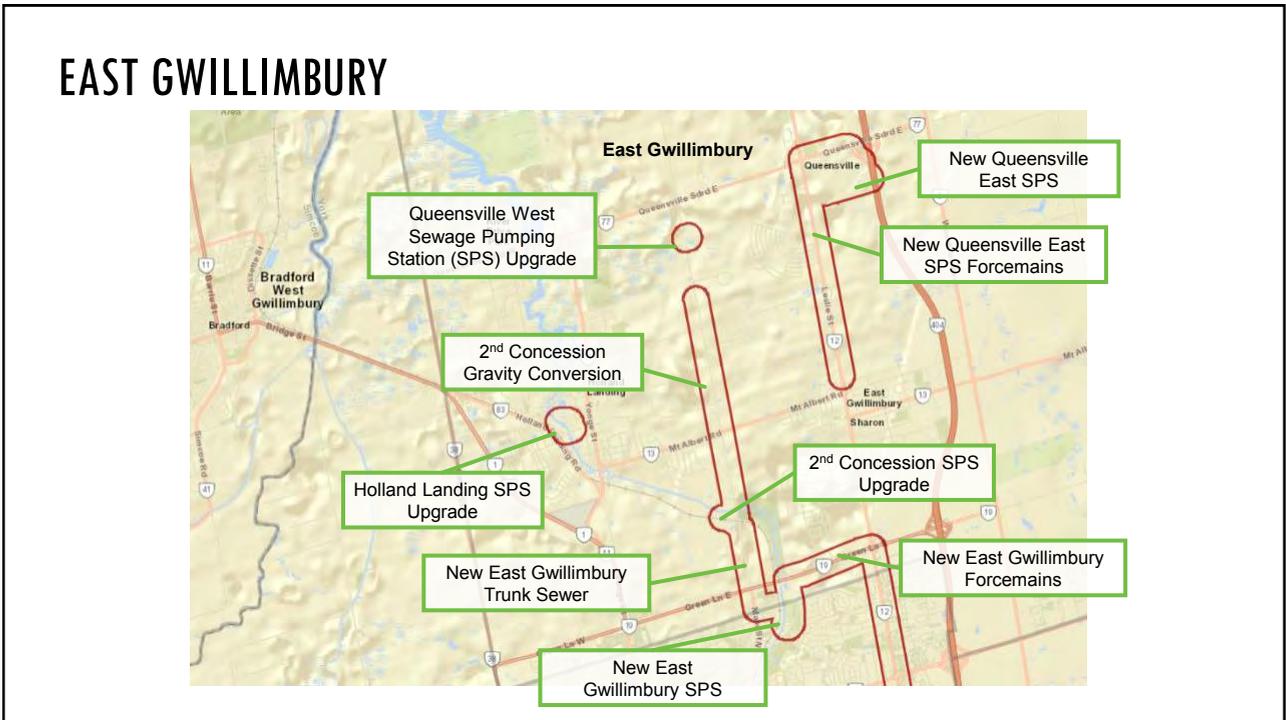
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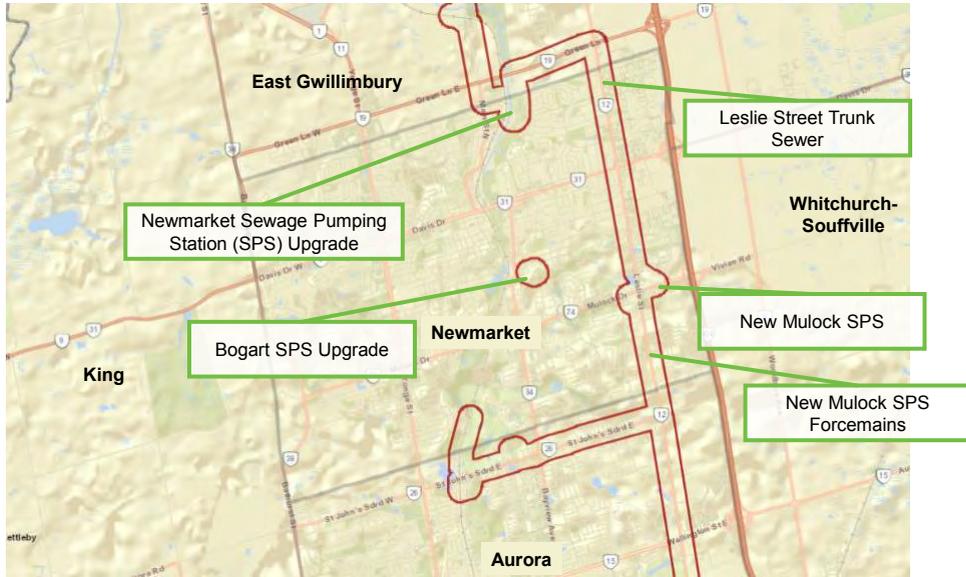


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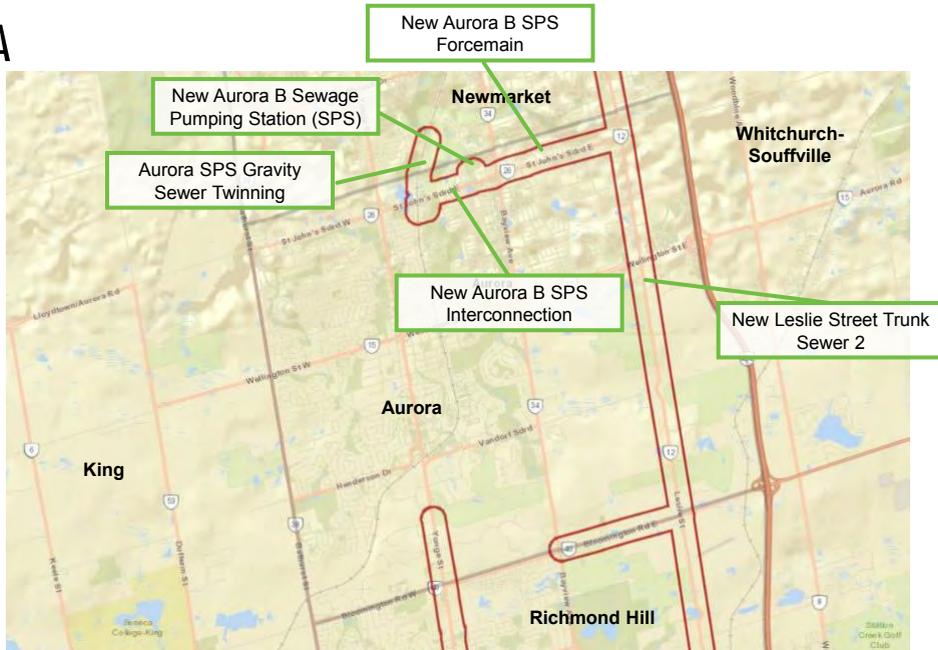
12

NEWMARKET



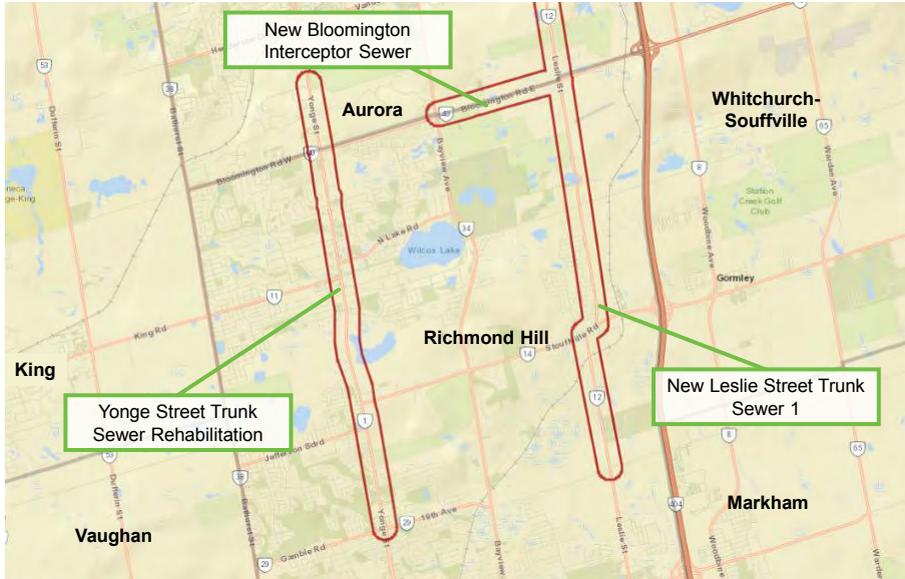
13

AURORA



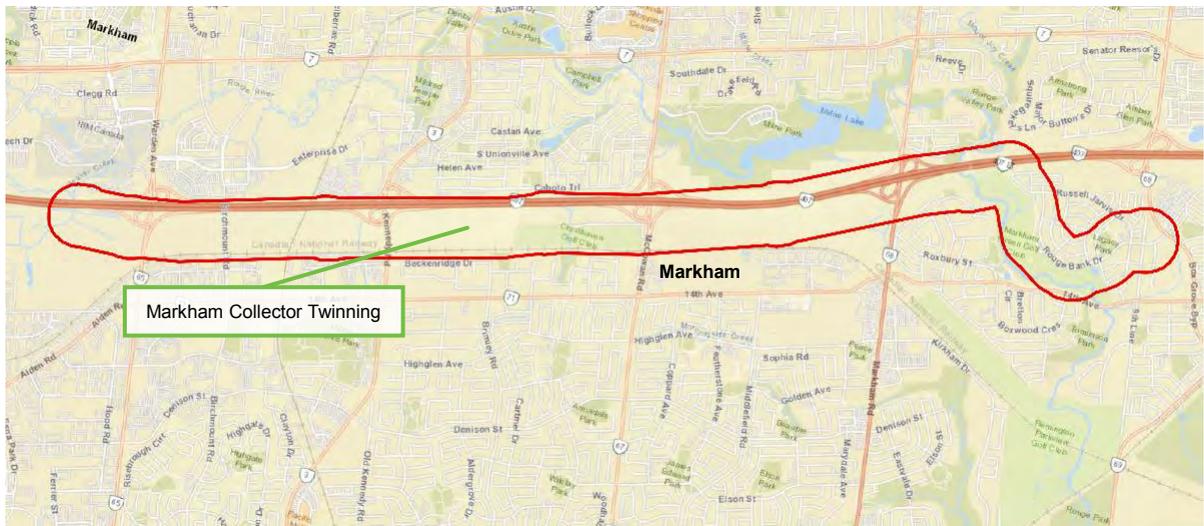
14

RICHMOND HILL



15

MARKHAM



16

DURHAM REGION

New Pickering Parkway Sewage Pumping Station (SPS)



New Squires Beach SPS

Primary Trunk Sewer Twinning

17

DURHAM REGION DUFFIN CREEK WPCP EXPANSION

Incinerator and Air Pollution Control No. 5 (indoors)

Ash Thickener No. 5

Primary Trunk Diversion Chamber

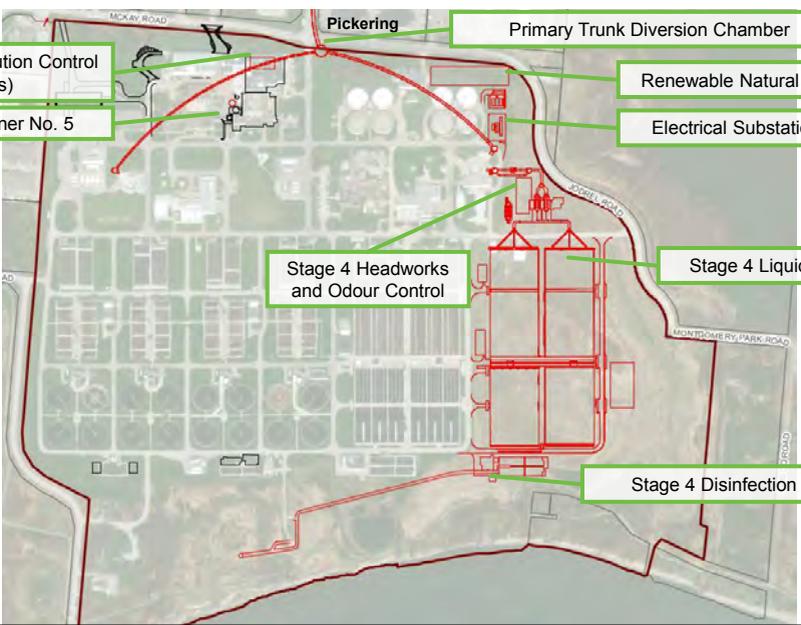
Renewable Natural Gas Purification Facility

Electrical Substation and Standby Power

Stage 4 Headworks and Odour Control

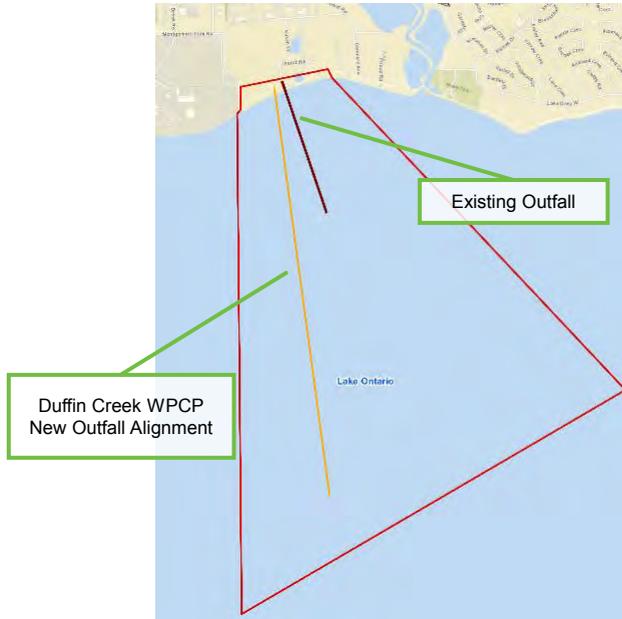
Stage 4 Liquid Treatment Trains

Stage 4 Disinfection System



18

DURHAM REGION DUFFIN CREEK WPCP NEW OUTFALL



19

PROJECT REPORT AND IMPACT ASSESSMENT

The Project Report will assess impacts to and develop mitigation measures for:

- The **natural environment**, including natural heritage features and species at risk
- **Geotechnical** and **hydrogeological** conditions
- **Groundwater** and **surface watercourses** such as rivers, creeks and Lake Ontario
- Existing potential **soil and groundwater contamination**
- Existing and future **land uses** and private **property**
- **Archaeological resources** on land and marine environments and **cultural heritage landscapes**
- **Air Quality, odour, noise** and **vibration**
- **Traffic** related impacts during construction and operation

Existing information sources will be used to assess environmental impacts.

20

DUFFIN CREEK AND OUTFALL ADDITIONAL IMPACT ASSESSMENTS

The Project Report for the Duffin Creek WPCP Expansion will include quantitative emissions estimates and dispersion modelling for both construction and operation to develop mitigation measures for:

- **Air Quality**
- **Odour**
- **Noise**

The Project Report for the Duffin Creek WPCP New Outfall will include the results of a **Receiving Water Impact Assessment** to evaluate the outfall performance in the near-field and far-field regions, and quantify dilution estimates at environmentally sensitive locations.

21

CONSULTATION PLAN



22

CONSULTATION

The Act mandates that York and Durham Regions consult with:

- **Indigenous Nations**
- **Persons who may be interested in the project, including local municipalities**

The Project Report will be made available for public review when it is submitted for Minister's review and approval.

23

CONSULTATION PROGRAM

The Consultation program involves the following activities, taking place throughout project initiation, and Project Report development and release:

- Project notice will be posted and advertised:
 - On York Region's and Durham Region's websites
 - In local newspapers in all local municipalities in York Region, Pickering and Ajax
- One-on-one consultation with local municipalities
- One-on-one consultation with key agencies including LSRCA, TRCA and Ministry of Citizenship and Multiculturalism
- Project webpage on York Region's website
- Plain language summary of the Project Report
- One-on-one consultation with Indigenous Nations

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Public Notice

The Public Notice will be published July 20 and July 27 in the following local newspapers:

- All 9 York Region Local Municipalities
- City of Pickering
- Town of Ajax

Public Notice York Region Sewage Works Project

In the Towns of East Gwillimbury, Newmarket and Aurora, and Cities of Markham, Richmond Hill and Pickering

The Regional Municipalities of York and Durham are working together to carry out the York Region Sewage Works Project, a long-term wastewater infrastructure project across the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering.

As required by the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, the York Region Sewage Works Project will increase the existing York Durham Sewage System, including new or expanded wastewater sewers, pumping stations, and enhancements to the Duffin Creek Water Pollution Control Plant on the shore of Lake Ontario in the City of Pickering.

Durham Region will support proposed work within the City of Pickering as part of the project.

If you are interested in participating in the consultation, please contact York Region by Monday, August 14, 2023.

York Region
York Region Sewage Works Project
17250 Yonge Street
Newmarket, Ontario L3Y 6Z1
1-877-464-9675 ext. 75124
YorkRegionSewageWorks@york.ca

Visit york.ca/waterconstruction for more information about the project and to sign up for project updates. This notice was issued on Thursday, July 13, 2023.

An accessible version of this notice is available upon request. Please let us know if you require accommodation to participate in the project.



Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the *Municipal Freedom of Information and Protection of Privacy Act* for consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request that your personal information remain confidential.



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CONSULTATION WITH INDIGENOUS NATIONS

The Province delegated the Crown's duty to consult with Indigenous communities to York and Durham Regions.

The Minister identified the following Indigenous Nations to be consulted - Williams Treaties First Nations, Mississaugas of the Credit First Nation, the Kawartha Nishnawbe, and Huron Wendat First Nation.

Indigenous Nations are being invited to actively participate in the Project and contribute to shaping the Project Report, including:

- Reviewing description of existing environmental conditions
- Identifying Indigenous traditional or ecological knowledge within the study area
- Identifying potential impacts to aboriginal or treaty rights from the project
- Reviewing impact assessment and mitigation measures

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NEXT STEPS



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INFORMATION REQUEST

- Heritage properties identified by local municipalities - information requested
- Proposed major changes to land uses within the impact assessment study areas not identified in Official Plans
- Opportunities to co-locate new infrastructure on municipally-owned property
- Major works planned within impact assessment study areas requiring construction coordination

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NEXT STEPS

Early July 2023: Finalize conceptual designs for infrastructure components in Durham Region (Duffin Creek WPCP, outfall, primary trunk sewer twinning and new pumping stations) and Markham (Markham Collector twinning)

Late July 2023: Finalize conceptual designs for new forcemains, new pumping stations and pumping station upgrades north of 19th Avenue in Richmond Hill, Aurora, Newmarket and East Gwillimbury

August 2023: Finalize impact assessment

Late September 2023: Release Project Report

Early 2024: Anticipated approval of Project Report

2024: Begin detailed design for selected priority projects

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Thank You



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E-2 Conceptual design presentation

The following municipalities and agencies received the same working conceptual designs presentation (slides may have been in a different order; however, all slides were shared):

- City of Markham
- Town of Whitchurch-Stouffville
- Town of Aurora
- Town of Newmarket
- Town of Whitchurch-Stouffville
- City of Richmond Hill
- Town of East Gwillimbury
- Township of King
- City of Vaughan
- Town of Ajax
- City of Pickering
- Toronto and Region Conservation Authority
- Lake Simcoe Region Conservation Authority

YORK REGION SEWAGE WORKS

WORKING CONCEPTUAL DESIGNS OVERVIEW

(CONSOLIDATED PRESENTATION)

August 2023



1

LAND ACKNOWLEDGEMENT

York and Durham Regions are located on the traditional territory of many Indigenous peoples such as the Anishinaabe, Huron-Wendat, and Haudenosaunee peoples.

York and Durham Regions fall under Treaty 13 with the Mississaugas of the Credit First Nation and the Williams Treaties with the Chippewas of Beausoleil, Georgina Island and Rama First Nations and the Mississaugas of Alderville, Curve Lake, Hiawatha and Scugog Island First Nations. There are also other land claims and treaty rights that have not been definitively resolved.

2

WORKING CONCEPTUAL DESIGNS OVERVIEW

Please note that drawings shown are works in progress, intended to convey the preliminary concept of the designs.

Feel free to:

- Ask questions or provide comments to the team following this presentation
- Email comments on the designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca)



PROJECT COMPONENTS IN EAST GWILLIMBURY



2ND CONCESSION SEWAGE PUMPING STATION (SPS) UPGRADE

- Upgrades made to existing station to increase capacity and meet forecasted needs
- **Address:**
18676 2nd Concession
(2nd Concession and East Holland River)
- **Existing infrastructure:**
Sharon Trunk Sewer, 2nd Concession connections and Queensville East SPS



5

QUEENSVILLE WEST SEWAGE PUMPING STATION (SPS) UPGRADE

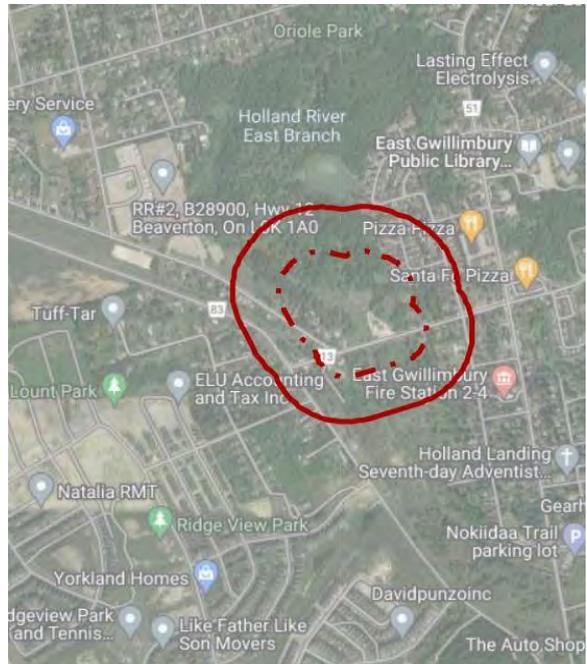
- Upgrades made to existing station to increase capacity and meet forecasted needs
- **Address:**
20287 2nd Concession
- **Existing infrastructure:**
Queensville West SPS



6

HOLLAND LANDING SEWAGE PUMPING STATION (SPS) UPGRADE

- Upgrades made to existing station to increase capacity and meet forecasted needs
- **Address:**
44 Bradford Street (Thompson Drive and East Holland River)
- **Existing infrastructure:**
Holland Landing SPS



7

NEW QUEENSVILLE EAST SEWAGE PUMPING STATION

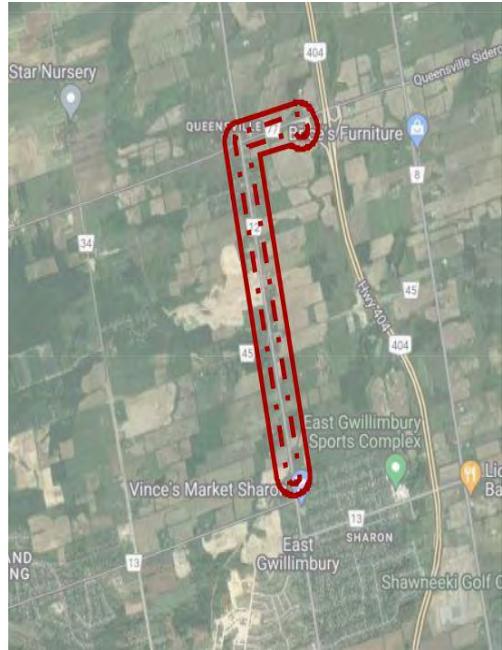
- Construction of a new pumping station to meet forecasted needs
- **Address:**
Tentatively on Queensville Sideroad
- **Existing infrastructure:**
None



8

NEW QUEENSVILLE EAST SEWAGE PUMPING STATION (SPS) FORCEMAINS

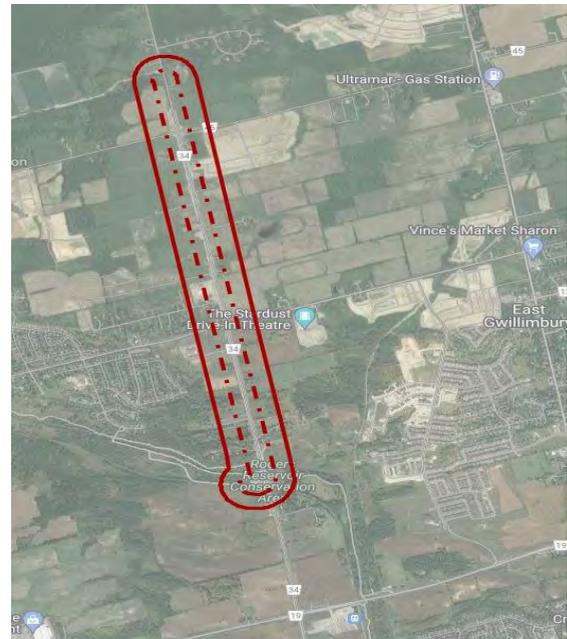
- Construction of two new forcemains to help divert flow to a new gravity trunk sewer along the Leslie Street corridor
- **Address:**
Queensville Sideroad/Leslie Street (SPS to east end of Sharon Trunk Sewer)
- **Existing infrastructure:**
None



9

2nd CONCESSION NORTH GRAVITY SEWER

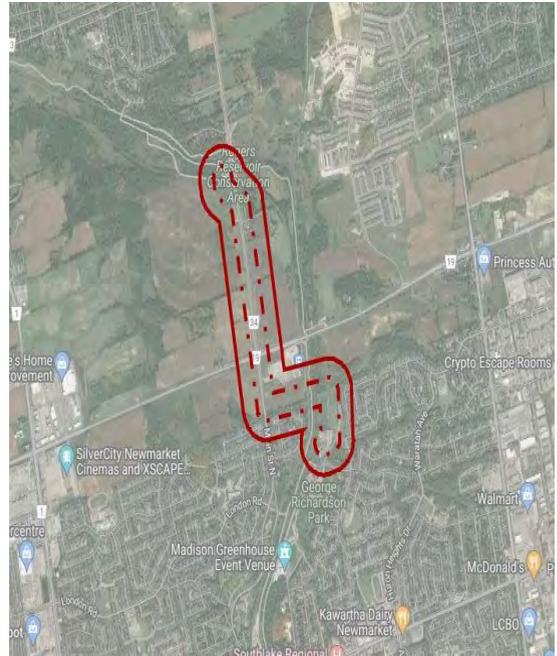
- Conversion of two forcemains to gravity along 2nd Concession
- **Address:**
2nd Concession (Doane Road to 2nd Concession Sewage Pumping Station)
- **Existing infrastructure:**
2nd Concession Forcemains



10

NEW 2nd CONCESSION SOUTH GRAVITY SEWER

- Construction of a new gravity trunk sewer to carry increased flow south toward the Newmarket area
- **Address:**
2nd Concession (2nd Concession Sewage Pumping Station to Newmarket Sewage Pumping Station)
- **Existing infrastructure:**
None



11

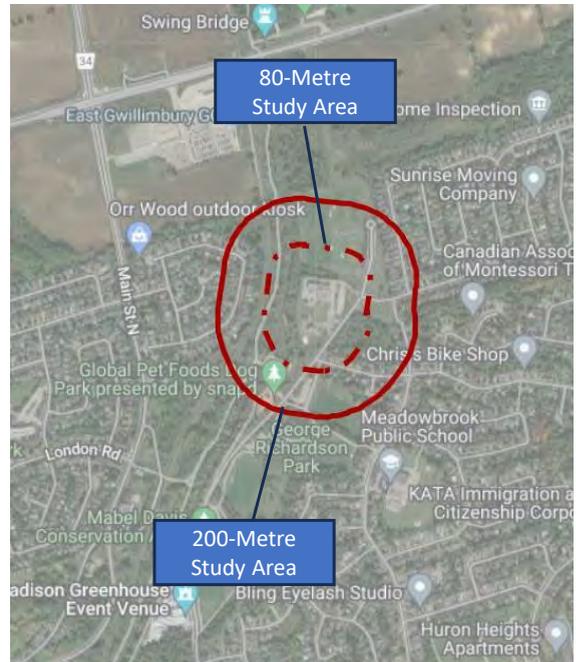
PROJECT COMPONENTS IN NEWMARKET AND AURORA



12

NEW NEWMARKET EAST SEWAGE PUMPING STATION

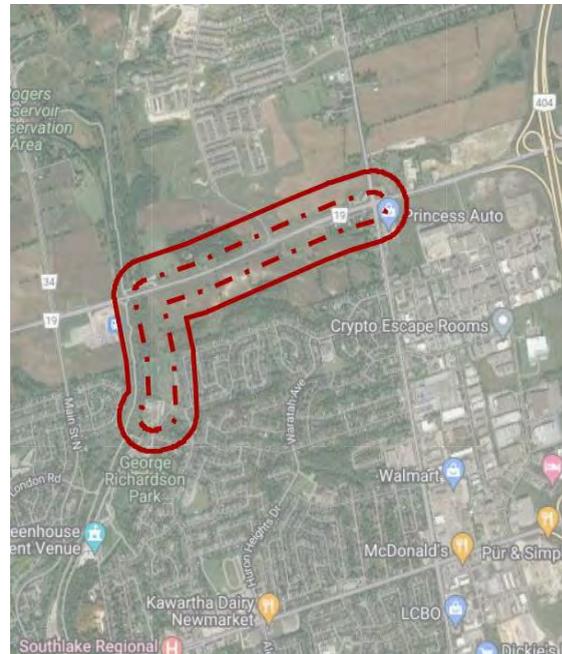
- Construction of a new sewage pumping station for conveyance from the eastern area and improve the gravity conveyance along 2nd Concession Road
- **Address:**
380 Bayview Parkway
- **Existing infrastructure:**
None



13

NEW NEWMARKET EAST SEWAGE PUMPING STATION FORCEMAINS

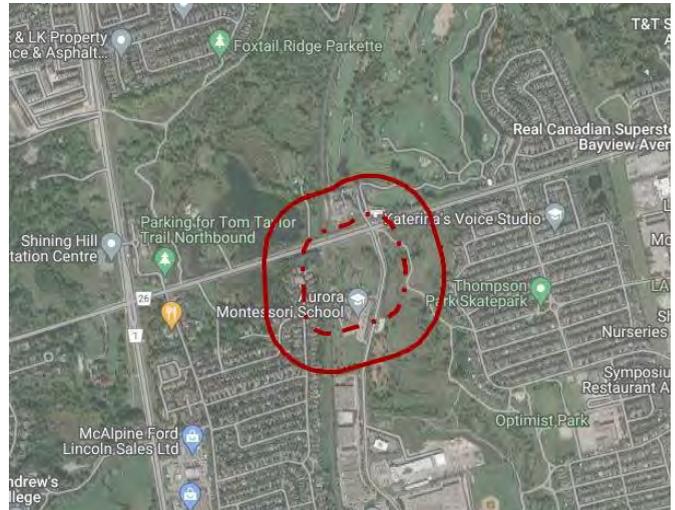
- Construction of two new forcemains to help divert flow to a new gravity trunk sewer along the Leslie Street corridor, relieving pressure on existing Newmarket and Aurora pumping stations
- **Address:**
380 Bayview Parkway to Leslie Street Gravity Sewer
- **Existing infrastructure:**
None



14

NEW AURORA EAST SEWAGE PUMPING STATION (SPS)

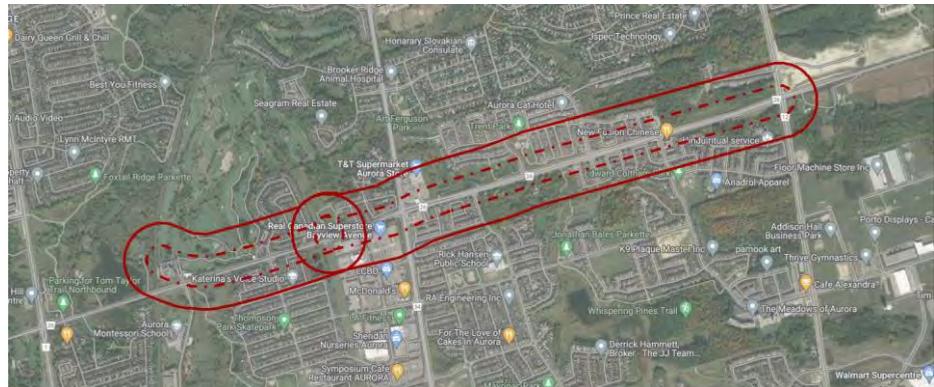
- Construction of a new sewage pumping station to allow for flows north of Aurora to be intercepted and conveyed to the new Leslie Trunk Sewer
- **Address:**
Located immediately across from the existing Aurora SPS, south of St. John's Sideroad
- **Existing infrastructure:**
None



15

NEW AURORA EAST SEWAGE PUMPING STATION (SPS) FORCEMAINS

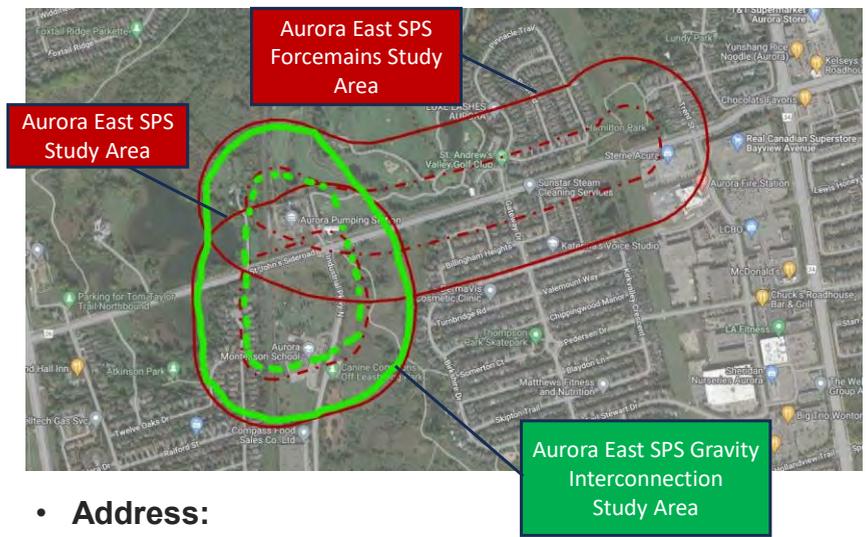
- Construction of two new discharge forcemains to allow for flows from north of Aurora to be intercepted and conveyed to the new Leslie Trunk Sewer
- **Address:**
Tentatively on St. John's Sideroad from the Aurora SPS to Leslie Street
- **Existing infrastructure:**
None



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AURORA EAST SEWAGE PUMPING STATION GRAVITY INTERCONNECTION

- Construction of a new gravity sewer from the existing Aurora SPS, across St. John's Sideroad to the new Aurora East SPS, to allow for flows from north of Aurora to be conveyed to the new Leslie Trunk Sewer

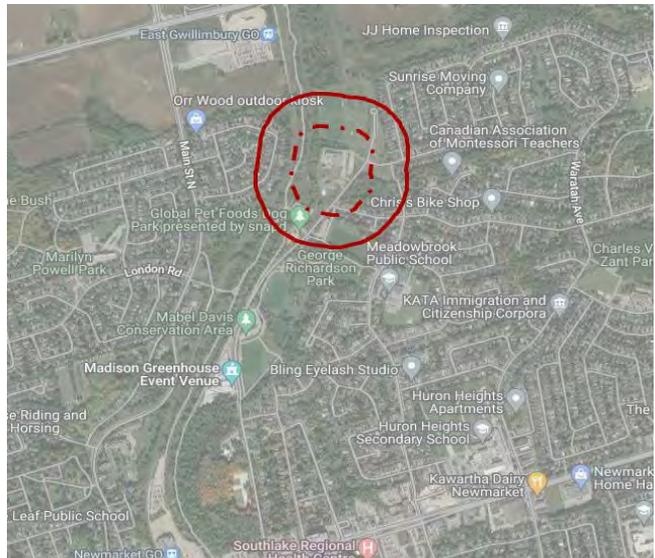


- **Address:**
St. John Sideroad
- **Existing infrastructure:**
None

17

NEWMARKET SEWAGE PUMPING STATION (SPS) UPGRADE

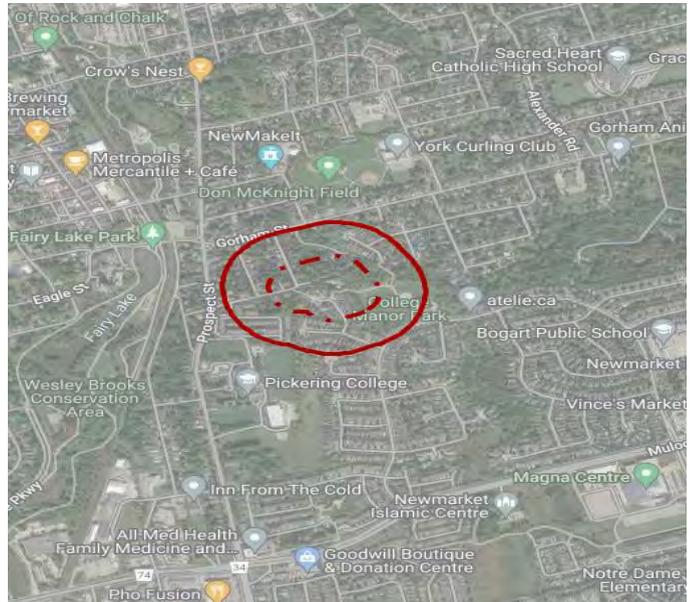
- Upgrades made to the existing Newmarket SPS to reliably convey increased sewage flows
- **Address:**
380 Bayview Parkway
- **Existing infrastructure:**
Newmarket SPS



18

BOGART SEWAGE PUMPING STATION (SPS) UPGRADE

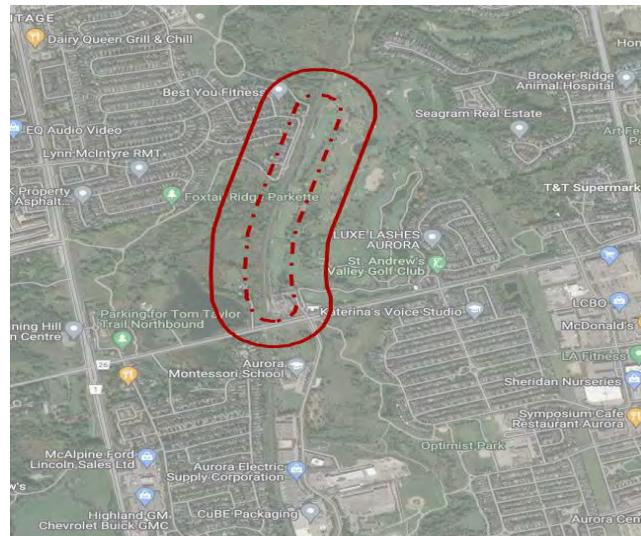
- Upgrades made to the existing Bogart SPS to reliably convey increased sewage flows
- **Address:**
319 Hamilton Street
- **Existing infrastructure:**
Bogart SPS



19

AURORA SEWAGE PUMPING STATION (SPS) GRAVITY SEWER TWINNING

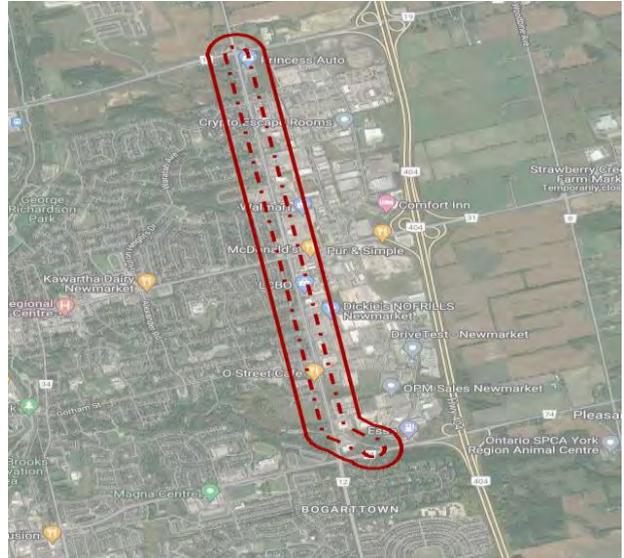
- Twinning of the existing Aurora SPS Gravity Sewer to reliably convey increased sewage flows
- **Address:**
Golf Course (Aurora SPS to Connection Chamber)
- **Existing infrastructure:**
Aurora SPS Gravity Sewer



20

LESLIE STREET TRUNK SEWER PHASE 3

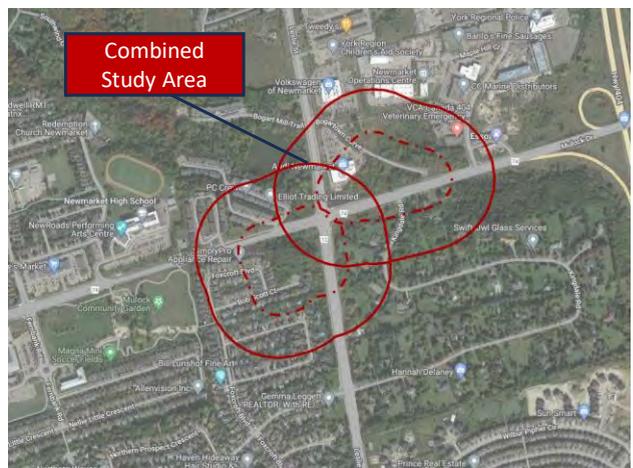
- Construction of a new Leslie Street Trunk Sewer to connect with flows coming from north of Aurora
- **Address:**
Leslie Street (Green Lane East to Mulock Drive)
- **Existing infrastructure:**
None



21

NEW MULOCK SEWAGE PUMPING STATION (SPS)

- Construction of a new Mulock SPS to allow for the diversion of sewage generated within East Gwillimbury, and pumped by the East Gwillimbury SPS, to use the Leslie Street Trunk Sewer, offloading from the existing Yonge Street Trunk Sewer
- **Address:**
To be determined
- **Existing infrastructure:**
None



22

NEW MULOCK SEWAGE PUMPING STATION (SPS) FORCEMAINS

- Construction of two new Mulock SPS forcemains to allow for the diversion of sewage generated within East Gwillimbury to use the Leslie Street Trunk Sewer
- **Address:**
Leslie Street (Mulock SPS to St. John's Sideroad)
- **Existing infrastructure:**
None



23

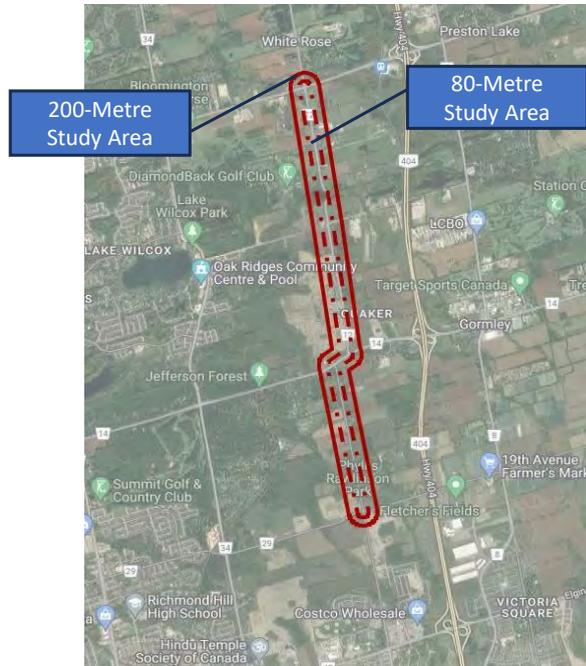
YONGE STREET SEWER TWINNING (AURORA AND RICHMOND HILL)



24

LESLIE STREET TRUNK SEWER PHASE 1

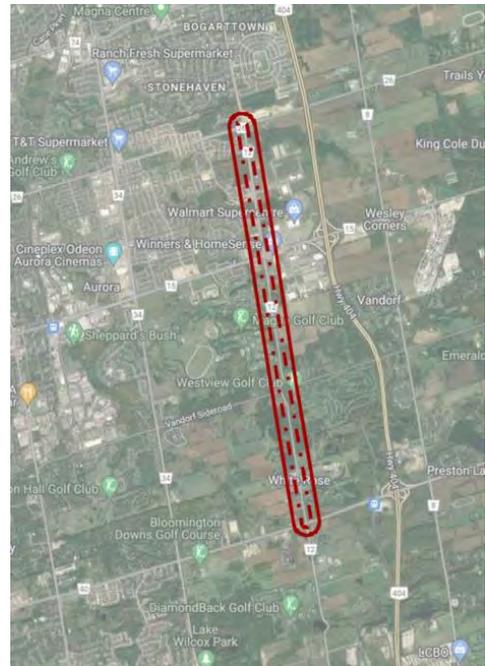
- Construction of a new Leslie Street Trunk Sewer to accommodate the anticipated flow capacity beyond 2051, including sewage from service areas upstream of St. John’s Sideroad
- **Address:**
Leslie Street from 19th Avenue to Bloomington Road
- **Existing infrastructure:**
None



25

LESLIE STREET TRUNK SEWER PHASE 2

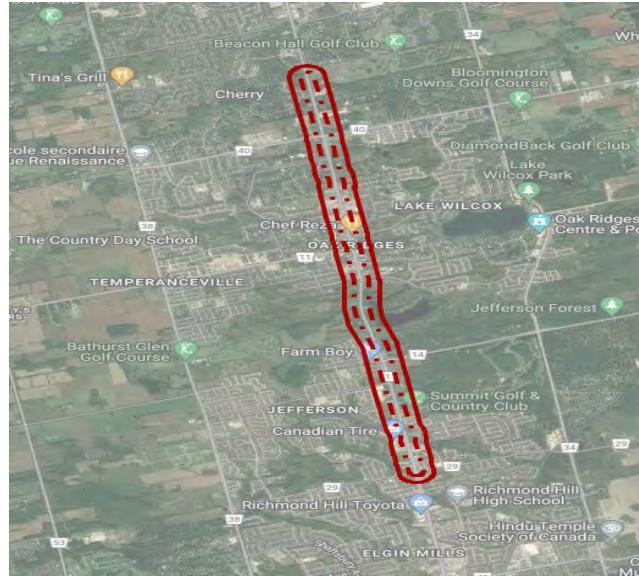
- Construction of a new Leslie Street Trunk Sewer to accommodate the anticipated flow capacity beyond 2051, including sewage from service areas upstream of St. John’s Sideroad
- **Address:**
Leslie Street from Bloomington Road to St. John’s Sideroad
- **Existing infrastructure:**
None



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YONGE STREET SEWER REHABILITATION

- Rehabilitation of the existing Yonge Street Sewer to address structural degradation and ensure its reliable operation for more than 50 years
- **Address:**
Yonge Street from Bloomington Road to 19th Avenue
- **Existing infrastructure:**
Existing Yonge Street Sewer



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NEW BLOOMINGTON INTERCEPTOR SEWER

- Construction of an Interceptor Gravity Sewer to divert the flow from the Aurora East forcemain to ensure efficient wastewater conveyance within the sewage system
- **Address:**
Bloomington Road from Bayview Avenue to Leslie Street
- **Existing infrastructure:**
None



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MARKHAM COLLECTOR TWINNING



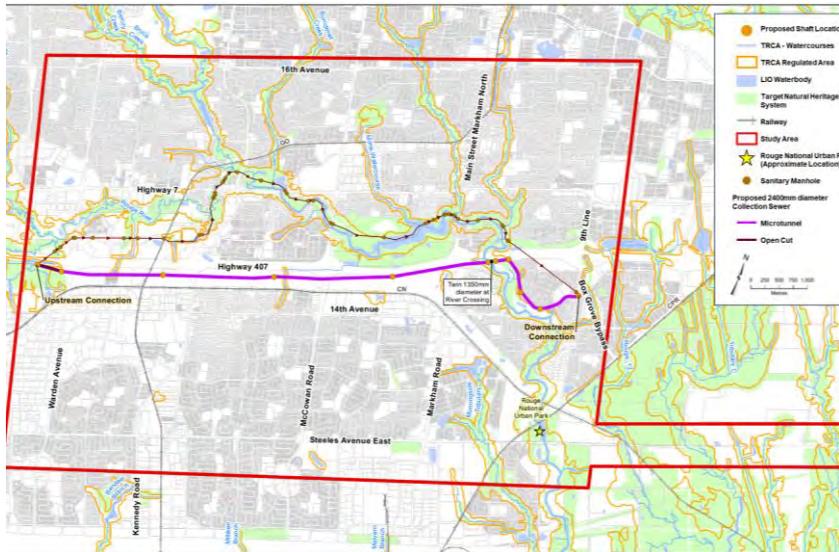
29

MARKHAM COLLECTOR TWINNING

- The existing Markham Collector plays a significant role in conveying sanitary flows from the existing network. It currently has no redundancy and a limited capacity.
- Twinning of the existing Markham Collector will mitigate the potential for any major system failure by providing system flexibility and increasing capacity and overall system resilience.
- **Address:**
Warden Avenue to Ninth Line
- **Existing infrastructure:**
Markham Collector Sanitary Sewer

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MARKHAM COLLECTOR TWINNING



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PRIMARY TRUNK TWINNING AND NEW SEWAGE PUMP STATIONS (PICKERING)



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PRIMARY TRUNK SEWER TWINNING (P3)

- The existing Primary Trunk is a segment of the York-Durham Sewage System (YDSS) that conveys wastewater flows from both York and Durham Regions to the Duffin Creek Water Pollution Control Plant (WPCP) for treatment.
- Work involves the construction of a 5.25km long Twin Primary Trunk Sewer to collect and convey anticipated wastewater flows.
- This will reduce the risk of system failure and provide the capacity necessary to convey projected flows generated from the forecasted growth, increase resilience and provide system flexibility.
- **Proposed Alignment Route:**
Flows from York and Durham will flow to the new Trunk via the existing Southeast Collector Chamber at Valley Farm Road and Finch Ave and conveyed to the Duffin Creek WPCP from Squires Beach Road

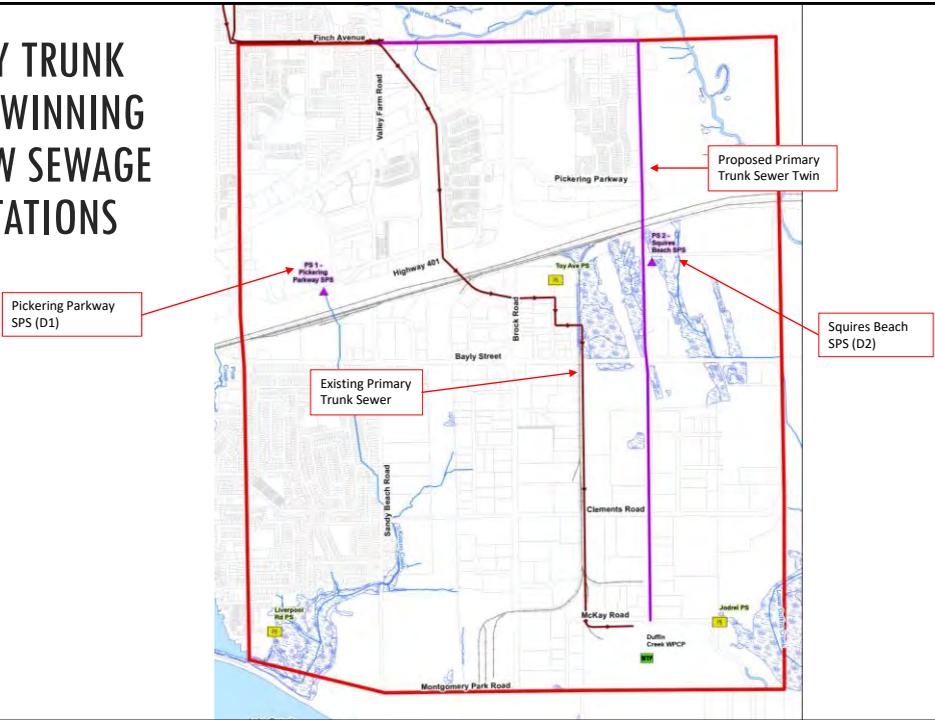
33

NEW DURHAM REGION SEWAGE PUMP STATIONS

- Work involves the construction of two new Sewage Pumping Stations (Pickering Parkway SPS and Squires Beach Road SPS) to collect and convey anticipated wastewater flows to the new Primary Trunk Twin
- Pickering Parkway SPS located in the Pickering Town Centre Parking lot at Glenanna Road and Pickering Parkway
- Squires Beach SPS located at Squires Beach Road and Kellino Street

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PRIMARY TRUNK SEWER TWINNING AND NEW SEWAGE PUMP STATIONS



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CONSTRUCTION METHODS



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PRIMARY TRUNK TWIN ALIGNMENT CONSTRUCTION

- The new Primary Trunk Sewer Twin, with an inner diameter of 4 m and depth of pipe cover ranging from 8 to 25 m deep, will be constructed using tunnelling methods.
- The tunneling of the proposed 4m diameter tunnel requires a receiving shaft at Valley Farm road / Finch Ave intersection, a launching shaft at Kingston Rd / Notion Rd intersection, and a receiving shaft at the proposed flow diversion chamber located at Squires Beach Rd and McKay Rd intersection. This shaft will act as a receiving for the main tunnel and as launching for the end connection tunnels at the Duffin Creek WPCP.

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IMPACT ASSESSMENT



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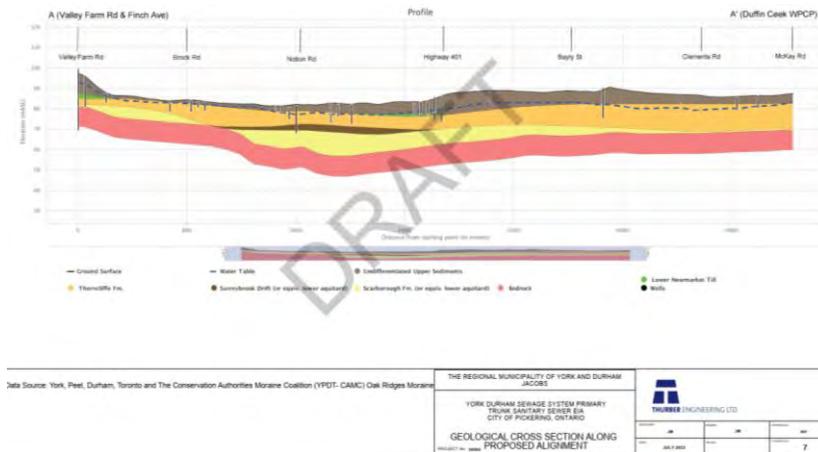
GEOTECHNICAL RISKS AND INVESTIGATION PLAN

- Some potential geotechnical risks to be considered in design and construction include
 - Variable bedrock depths
 - Strength and quality
 - Mixed face conditions comprising till and bedrock
- A geotechnical field investigation including boreholes extended below the tunnel level is recommended to:
 - confirm the soil stratigraphy and bedrock surface elevations along the alignment
 - determine the characteristics of the soil and bedrock,
 - develop geotechnical parameters for design

39

HYDROGEOLOGICAL RISKS AND INVESTIGATION PLAN

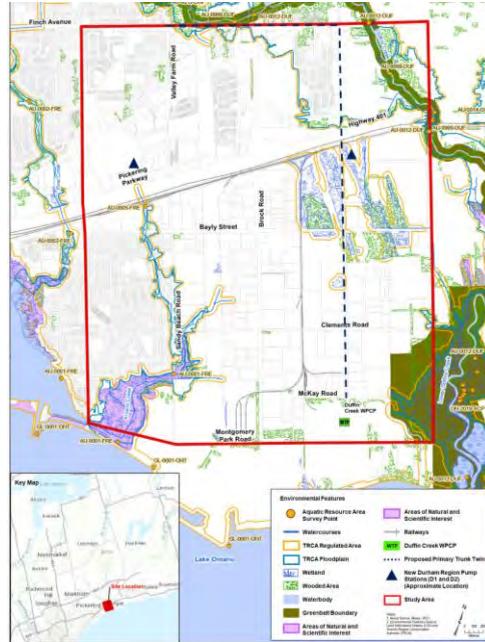
- Field Investigations recommended to confirm the hydrogeological condition along the alignment and determine whether a Category 3 Permit to Take Water (PTTW) or Environmental Activity and Sector Registry (EASR) will be required during construction including:
 - installation of shallow and deep monitoring wells
 - in-situ hydraulic conductivity testing
 - collection of groundwater quality samples are required



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NATURAL HERITAGE CHARACTERIZATION

- Natural Heritage Desktop study was completed, including site reconnaissance in July 2023.
- Lower Duffins Creek Wetland Complex, an evaluated wetland, was identified within the eastern portion of the Study Area, south of Highway 401.
- Future studies recommended include:
 - Bird Surveys
 - Seasonal field efforts



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ARCHEOLOGICAL/CULTURAL HERITAGE OVERVIEW

Based on the results of the Stage 1 Archaeological Assessment:

- No previously registered archaeological sites were located within 50 metres of the Study Area
- Two cemeteries are located adjacent to the new Primary Trunk Twin

Based on the results of the Cultural Heritage Impact Assessment:

- There are six potential Built Heritage Resources and two potential Cultural Heritage Landscapes within the study area.
- Of the eight identified B.H.R.s and C.H.L.s, five properties are identified by the City of Pickering as potential heritage property and three properties are identified by the Town of Ajax on their Inventory of Non-Designated Heritage Properties.

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NOISE, VIBRATION, AIR QUALITY AND ODOUR IMPACT ASSESSMENT

CONSTRUCTION IMPACTS

- Air and odour impacts expected to be temporary, short durations, and not have long-term ecological effects.
- No significant odour emissions or impacts to air quality are anticipated based on proposed mitigation measures and best practices
- Construction noise levels estimated are below the US Federal Transit Administration construction noise screening levels
- Potential for some buildings to experience vibration mitigatable using best practices

OPERATIONS/MAINTENANCE IMPACTS

- Potential for odours to be released through maintenance holes along trunk route
- Pump stations anticipated to emit odours through the odour control units installed, which will effectively mitigate emissions
- Operation and maintenance of all components are not expected to generate significant noise, other than temporarily during some maintenance activities as required
- No significant vibration expected that would be detectable to nearby receptors

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OTHER RELEVANT IMPACT ASSESSMENTS COMPLETED:

- Traffic Impact Assessment for construction/operation activities
- Climate Change and Greenhouse Gas Emission Study
- Energy Management Study
- Property Acquisition Review
- Phase One Environmental Site Assessment

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FUTURE STUDIES

The following future studies will be completed prior to or during preliminary design:

- Geotechnical Investigations, including Boreholes to confirm stratigraphy and bedrock surface elevation
- Hydrogeological Field Investigations to confirm condition along the alignment
- Sub-Surface Utility Engineering Level D
- Topographic Surveys
- Assessment of Past Uses
- Heritage Impact Assessment
- Stage 2 Archaeological Investigations in areas found to exhibit archaeological potential

45

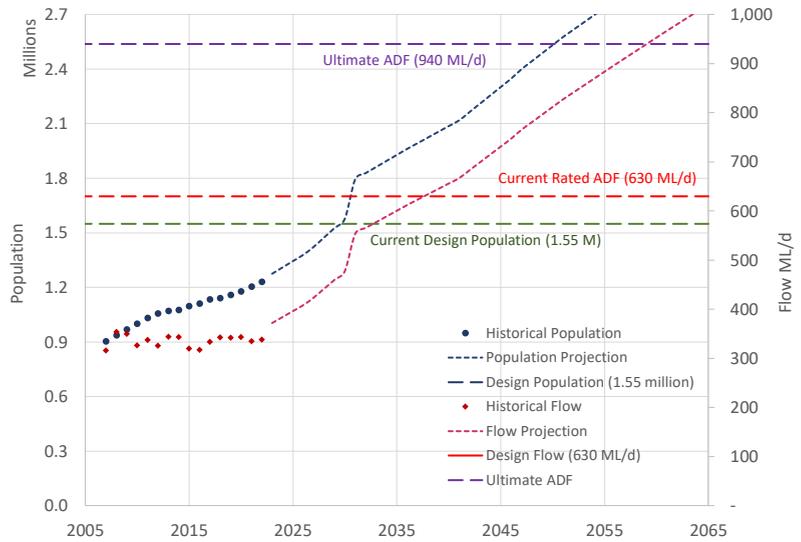
DUFFIN CREEK WPCP AND OUTFALL



46

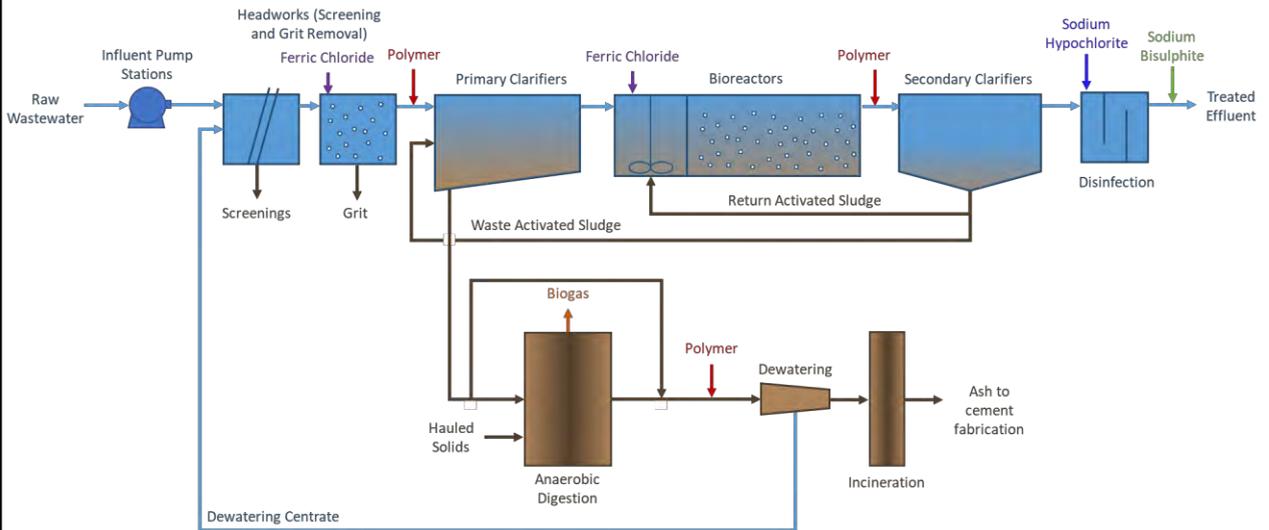
DESIGN BASIS

- York-Durham Sewage System (YDSS) upgrades are driven by growth in Durham and York Regions to meet Bill 23 housing targets
- Design basis for Duffin Creek WPCP expansion and new outfall is based on population projections and ultimate raw wastewater pumping capacity in existing pump stations:
 - Population: 2.7 million
 - Average Day Flow: 940 million litres per day (ML/d)
 - Peak Flow: 3,290 ML/d

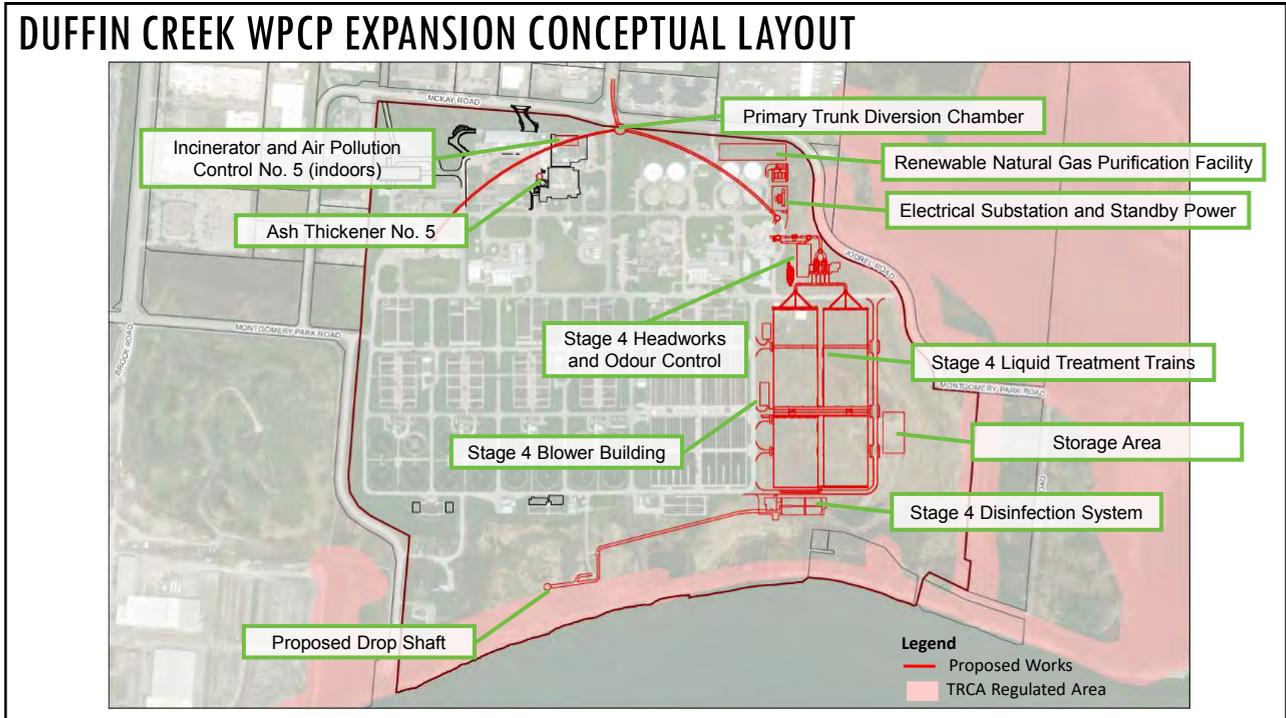


47

Duffin Creek WPCP Treatment Process



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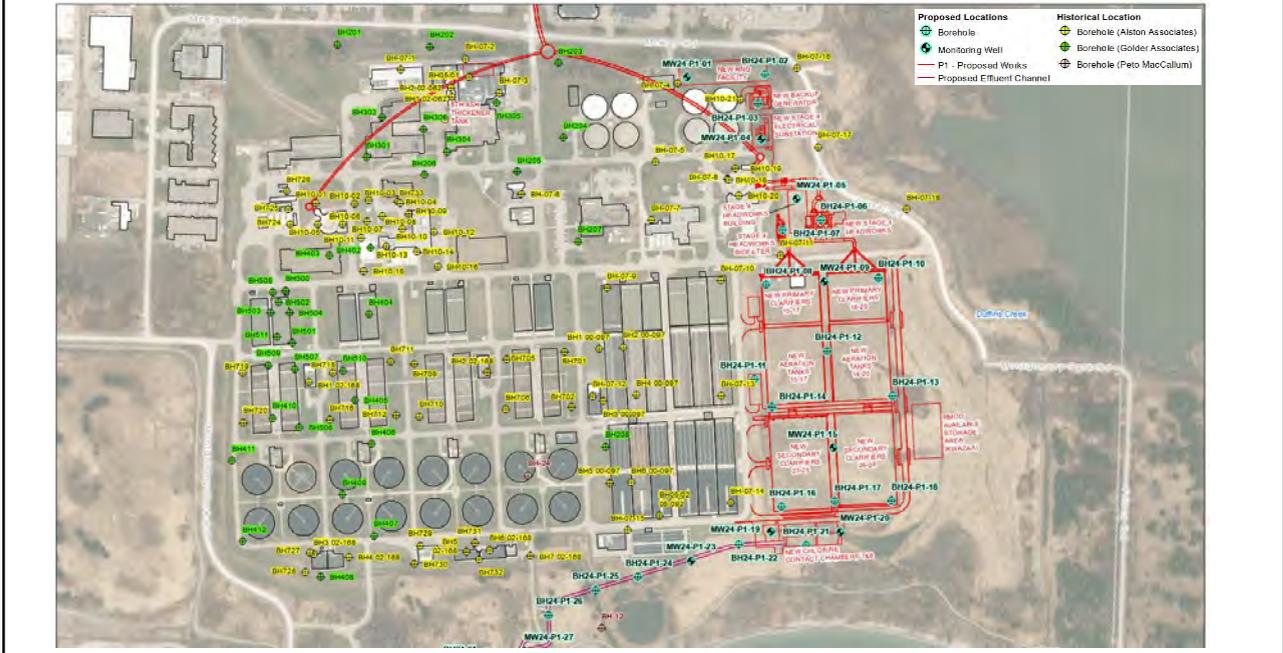
49

STAGE 4 EXPANSION AND PREVIOUSLY NATURALIZED AREAS

- Conceptual layout (shown in red) superimposed on Greening Strategy plan (shown in grey background).
- The conceptual design presents a conservative (“worst-case”) assumptions on layouts: encroachments associated with buried infrastructure, conservative design assumptions, laydown areas, etc.
- Regions commit to looking for practical options to minimize unnecessary encroachment on previously naturalized lands and existing berms/buffers.

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GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATION PLAN



51

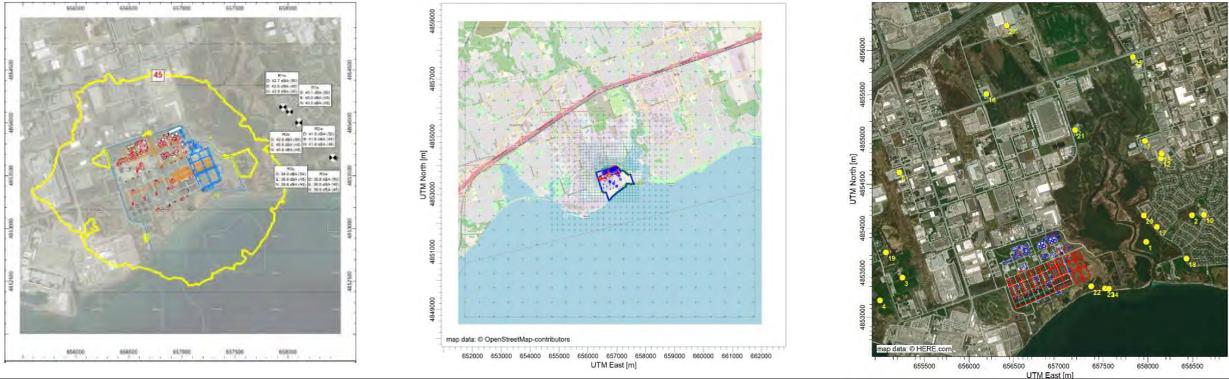
HYDROGEOLOGICAL INVESTIGATION PLAN



52

NOISE, AIR QUALITY AND ODOUR IMPACT ASSESSMENT

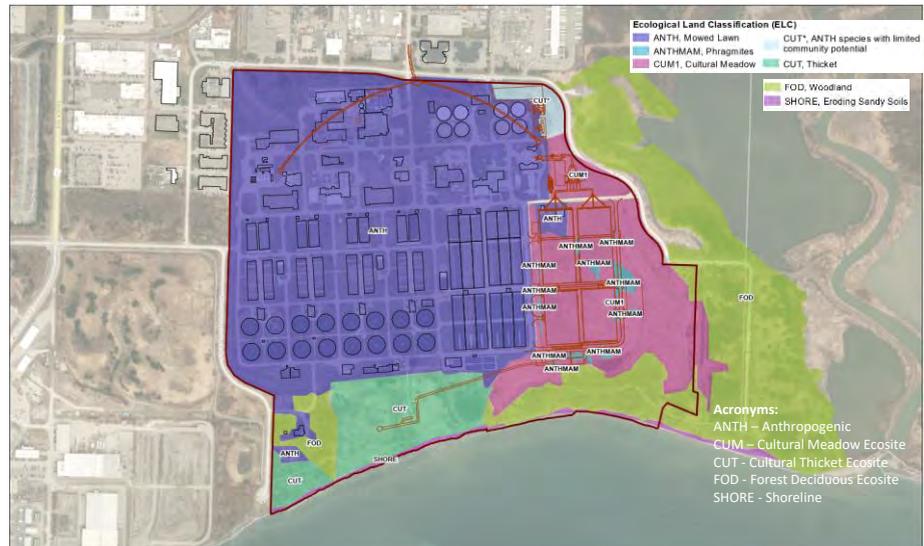
- Construction impacts qualitatively and Operation impacts quantitatively.
- Overall construction noise, air and odour impacts are not anticipated to be significant, mostly temporary and short durations.
- Air and noise operation cumulative impacts will remain to comply with the MECP guidelines.
- For odour, some sensitive receptors with the existing conditions are above the MECP screening level



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NATURAL HERITAGE CHARACTERIZATION

- Duffins Creek to the East of the Study Area (red line) is comprised of an Area of Natural and Scientific Interest (ANSI) called the Duffins Creek Coastal Marsh (Life Sciences), as well as an evaluated wetland called Lower Duffins Creek Wetland Complex. These areas are environmentally important and should be protected.



54

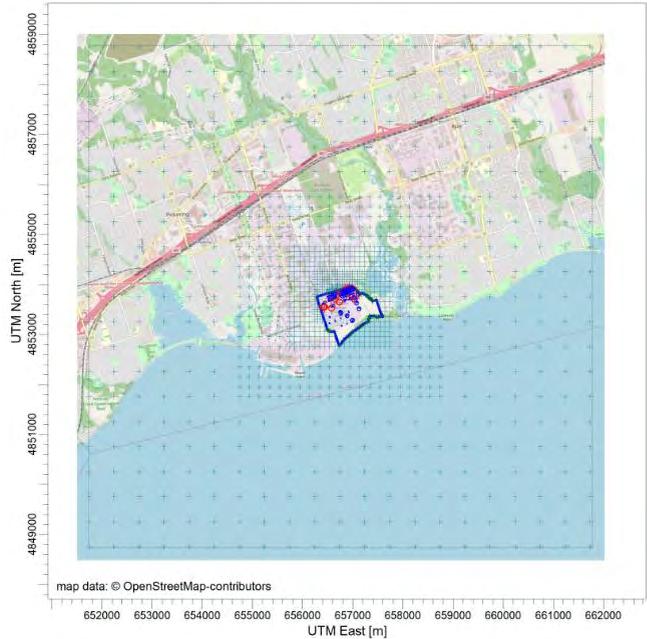
AIR QUALITY IMPACT ASSESSMENT

CONSTRUCTION IMPACTS

- Highly localized to the work area due to short emission discharge height and mobility of the sources

OPERATIONS IMPACTS

- Cumulative post-Project impacts to the existing baseline: increase ratio ranges from 0.0001% (½-hour average carbon monoxide) to 26.4% (10-minute VOC from incinerators)
- The cumulative POI concentrations of all contaminants are predicted to be below the applicable MECP standard, guideline or screening level listed in the ACB list

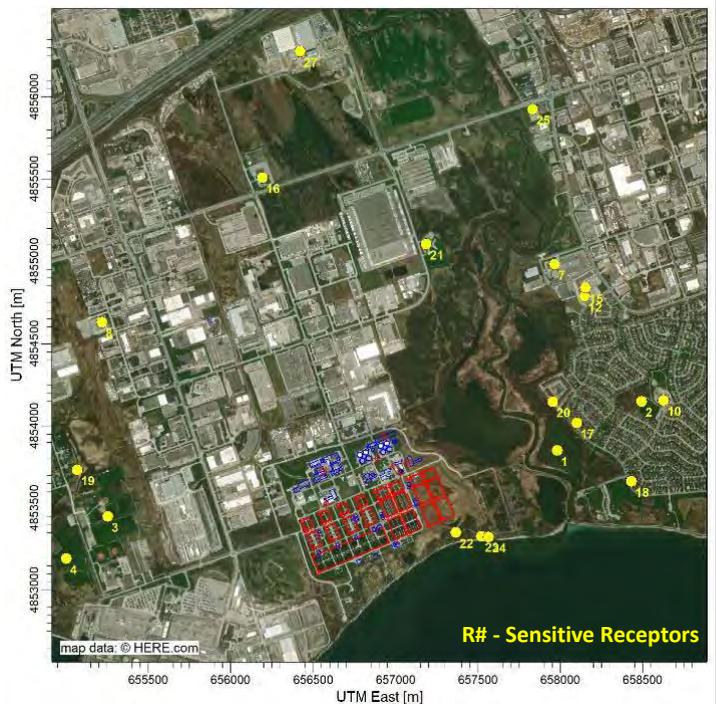


57

ODOUR IMPACT ASSESSMENT

BACKGROUND

- MECP uses a screening level of 1 Odour Units (OU) at the 99.5 percentile but considers factors such as Frequency, Intensity, Duration, Offensiveness of the odours, and Location (collectively known as FIDOL)
- Some sensitive receptors (i.e. yellow dots) with the existing conditions are above the MECP 1 OU screening level
- MECP has approved for a target of 4.5 Odour Units
- Regions, in consultation with the MECP developed and implemented an Odour Management Plan
- Odour Management Plan was also part of the conditions established under the current Environmental Compliance Approval



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ODOUR IMPACT ASSESSMENT

CONSTRUCTION IMPACTS

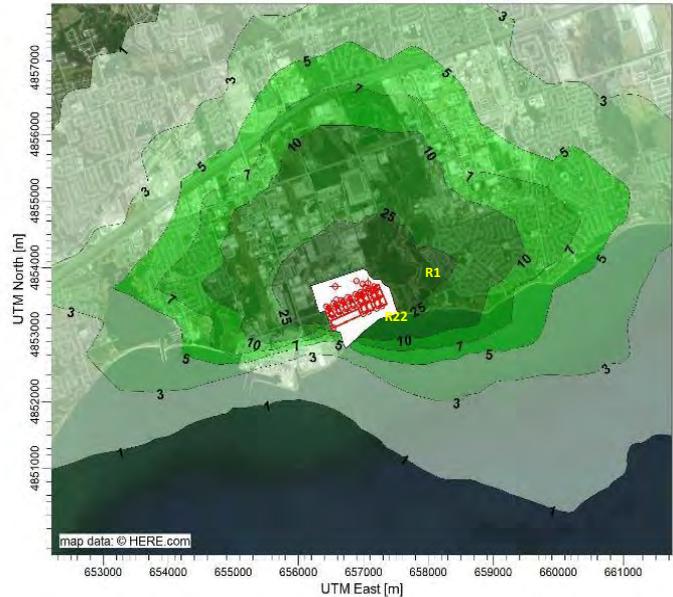
- Not anticipated to be significant. It may be short term emissions for tie-ins to existing infrastructure and some volatile organic compounds due to fuel combustion.

OPERATIONS IMPACTS

- 99.5 percentile impacts range from 7.4 to 37.3 OU at the sensitive receptors

When hours of likely occupancy are factored-in:

- ✓ Receptor #1 – Park, East of the Facility
 - 1 OU – 2.6%
 - 5 OU – 0.6%
 - 10 OU – 0.4%
- ✓ Receptor #22 – Trail path, Southeast of the Facility
 - 1 OU – 8.4%
 - 5 OU – 0.9%
 - 10 OU – 0.4%



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FUTURE STUDIES — DUFFIN CREEK WPCP EXPANSION

The following future studies will be completed prior to or during preliminary design:

- Systematic evaluation of treatment alternatives, including an assessment to determine their net environmental effects (prior to preliminary design)
- Facility-wide asset management plan
- Work with TRCA to refine the Biodiversity/Greening Plan based on the expansion proposed layout
- Subsurface geotechnical and hydrogeological investigations
- Topographical investigation
- Arborist report
- Comprehensive field investigations for Species at Risk

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DUFFIN CREEK WPCP NEW OUTFALL



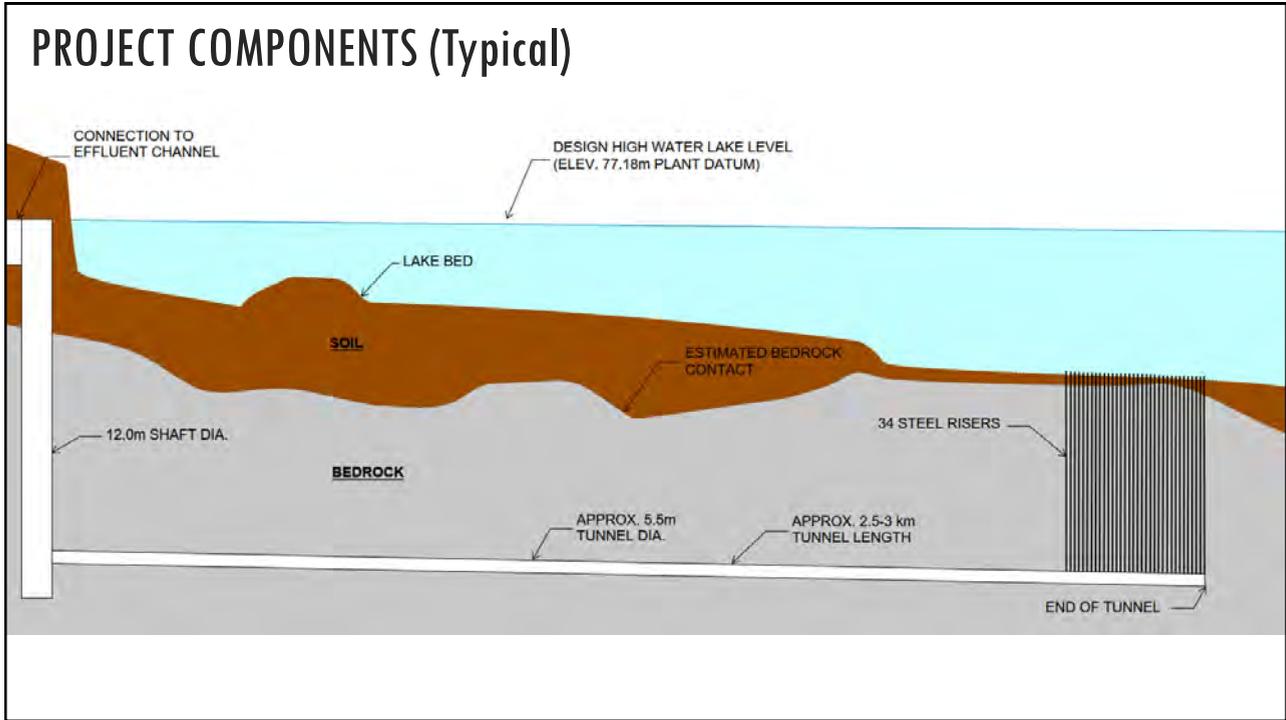
61

DUFFIN CREEK WPCP NEW OUTFALL

- New Outfall will be required to accommodate new projected flow with a peak hydraulic capacity of 3,290 ML/d
- Proposed Outfall Configuration:
 - ✓ **Length:** approx. 2.5 to 3 km
 - ✓ **Risers/Ports:** approx. 30 to 50
 - ✓ **Diameter:** approx. 5.5 m



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GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATIONS

- Two rock valleys were detected along the eastern alignment
- Detailed subsurface investigation is planned for the western alignment to inform design.

The figure includes a geotechnical cross-section labeled 'SECTION A-A' showing soil and bedrock layers. To the right is a site map of Duffin Creek WPCP with a red boundary and a data table. The table contains the following columns: Station ID, Stationing, Elevation, Depth, and Notes. The data is as follows:

Station ID	Stationing	Elevation	Depth	Notes
100	100+00	77.18	0.00	Design High Water Lake Level
101	100+05	77.15	0.05	Soil
102	100+10	77.12	0.10	Soil
103	100+15	77.08	0.15	Soil
104	100+20	77.05	0.20	Soil
105	100+25	77.02	0.25	Soil
106	100+30	77.00	0.30	Soil
107	100+35	76.98	0.35	Soil
108	100+40	76.95	0.40	Soil
109	100+45	76.92	0.45	Soil
110	100+50	76.90	0.50	Soil
111	100+55	76.88	0.55	Soil
112	100+60	76.85	0.60	Soil
113	100+65	76.82	0.65	Soil
114	100+70	76.80	0.70	Soil
115	100+75	76.78	0.75	Soil
116	100+80	76.75	0.80	Soil
117	100+85	76.72	0.85	Soil
118	100+90	76.70	0.90	Soil
119	100+95	76.68	0.95	Soil
120	101+00	76.65	1.00	Soil
121	101+05	76.62	1.05	Soil
122	101+10	76.60	1.10	Soil
123	101+15	76.58	1.15	Soil
124	101+20	76.55	1.20	Soil
125	101+25	76.52	1.25	Soil
126	101+30	76.50	1.30	Soil
127	101+35	76.48	1.35	Soil
128	101+40	76.45	1.40	Soil
129	101+45	76.42	1.45	Soil
130	101+50	76.40	1.50	Soil
131	101+55	76.38	1.55	Soil
132	101+60	76.35	1.60	Soil
133	101+65	76.32	1.65	Soil
134	101+70	76.30	1.70	Soil
135	101+75	76.28	1.75	Soil
136	101+80	76.25	1.80	Soil
137	101+85	76.22	1.85	Soil
138	101+90	76.20	1.90	Soil
139	101+95	76.18	1.95	Soil
140	102+00	76.15	2.00	Soil
141	102+05	76.12	2.05	Soil
142	102+10	76.10	2.10	Soil
143	102+15	76.08	2.15	Soil
144	102+20	76.05	2.20	Soil
145	102+25	76.02	2.25	Soil
146	102+30	76.00	2.30	Soil
147	102+35	75.98	2.35	Soil
148	102+40	75.95	2.40	Soil
149	102+45	75.92	2.45	Soil
150	102+50	75.90	2.50	Soil
151	102+55	75.88	2.55	Soil
152	102+60	75.85	2.60	Soil
153	102+65	75.82	2.65	Soil
154	102+70	75.80	2.70	Soil
155	102+75	75.78	2.75	Soil
156	102+80	75.75	2.80	Soil
157	102+85	75.72	2.85	Soil
158	102+90	75.70	2.90	Soil
159	102+95	75.68	2.95	Soil
160	103+00	75.65	3.00	Soil
161	103+05	75.62	3.05	Soil
162	103+10	75.60	3.10	Soil
163	103+15	75.58	3.15	Soil
164	103+20	75.55	3.20	Soil
165	103+25	75.52	3.25	Soil
166	103+30	75.50	3.30	Soil
167	103+35	75.48	3.35	Soil
168	103+40	75.45	3.40	Soil
169	103+45	75.42	3.45	Soil
170	103+50	75.40	3.50	Soil
171	103+55	75.38	3.55	Soil
172	103+60	75.35	3.60	Soil
173	103+65	75.32	3.65	Soil
174	103+70	75.30	3.70	Soil
175	103+75	75.28	3.75	Soil
176	103+80	75.25	3.80	Soil
177	103+85	75.22	3.85	Soil
178	103+90	75.20	3.90	Soil
179	103+95	75.18	3.95	Soil
180	104+00	75.15	4.00	Soil
181	104+05	75.12	4.05	Soil
182	104+10	75.10	4.10	Soil
183	104+15	75.08	4.15	Soil
184	104+20	75.05	4.20	Soil
185	104+25	75.02	4.25	Soil
186	104+30	75.00	4.30	Soil
187	104+35	74.98	4.35	Soil
188	104+40	74.95	4.40	Soil
189	104+45	74.92	4.45	Soil
190	104+50	74.90	4.50	Soil
191	104+55	74.88	4.55	Soil
192	104+60	74.85	4.60	Soil
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195	104+75	74.78	4.75	Soil
196	104+80	74.75	4.80	Soil
197	104+85	74.72	4.85	Soil
198	104+90	74.70	4.90	Soil
199	104+95	74.68	4.95	Soil
200	105+00	74.65	5.00	Soil

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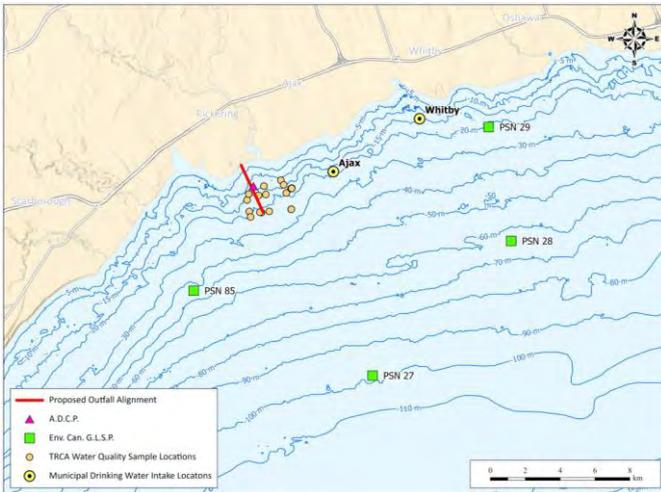
NATURAL HERITAGE CHARACTERIZATION

- The littoral (or nearshore) zone is shallow, brighter, warmer, better oxygenated, more vegetated, and therefore provides habitat and resources for a wide range of aquatic species.
- The pelagic zone begins further out into the lake, where it becomes deeper. This open water area is characterized by colder temperatures, less light penetration, less food sources, less dissolved oxygen, and reduced biodiversity.



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RECEIVING WATER IMPACT ASSESSMENT — AMBIENT CONDITIONS



Agency	Program	Sampling Frequency	Measured Parameters
TRCA	Water Quality Study	Monthly (Apr-Oct)	E. coli, TAN, TP, pH, Temp
Environment Canada	Great Lakes Surveillance Program	Few times per year	E. coli, TAN, TP, pH, Temp
Ajax and Whitby WTP	Raw Water Sampling	Monthly (Jan-Dec)	E. coli, TAN, TP, pH, Temp
MECP	Acoustic Doppler Current Profiler Measurements	30-min	Current speed and direction
TRCA	Conductivity, Temperature, Depth Profile	Few times per year (Apr-Oct)	Temperature profiles

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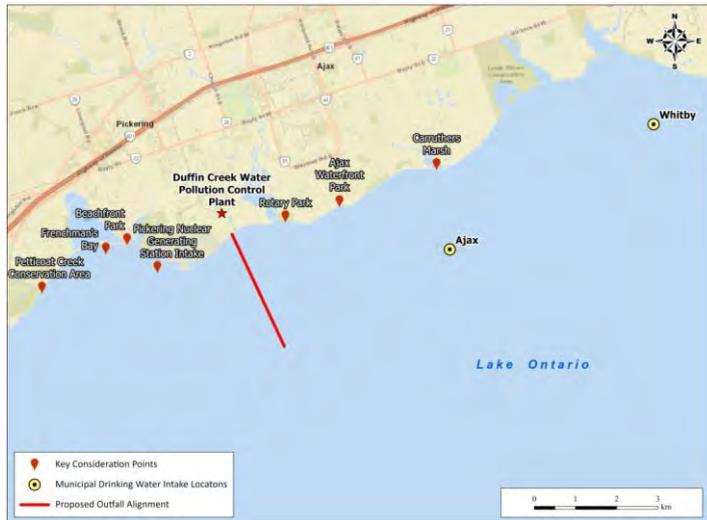
RECEIVING WATER IMPACT ASSESSMENT – FIDUCIARY MARKERS

Near Field Region Modelling – CORMIX

- ✓ Evaluate the dilutions for key parameters at the edge of the near-field mixing zone

Far Field Region Modelling – MIKE3

- ✓ Predict TP and TAN concentrations at key locations (e.g. shoreline and intakes)



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FUTURE STUDIES – DUFFIN CREEK WPCP NEW OUTFALL

The following future studies will be completed prior to or during preliminary design:

- Off-shore and on-shore subsurface investigations
- Arborist report
- Comprehensive field investigations for Species at Risk
- Follow-up lake modelling to further refine design (e.g. number and size of ports, diffuser section length)

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NEXT STEPS



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NEXT STEPS

Please provide any comments on the designs to Katrina McCullough (Katrina.McCullough@ghd.com) or Jose Manalo (Jose.Manalo@york.ca)

- August 2023: Finalize impact assessment
- Late September 2023: Release Project Report
- Early 2024: Anticipated approval of Project Report
- 2024: Begin detailed design for selected priority projects

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Thank You



Appendix F

Meeting summaries

F-1 Local Municipalities

Meeting notes

External

21 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with City of Pickering	Tel/email address	416-866-2365/ Katrina.McCullough@ghd.com
Date / Time	Monday, July 5, 2023 10:00 a.m. – 11:00 a.m.	Project no.	12612540
Attendees inc. company	Richard Holborn, Engineering Services, City of Pickering Fiaz Jaroon, Economic Development and Strategic Services, City of Pickering Catherine Rose, Planning, City of Pickering Shauna Muir, Corporate Communications, City of Pickering Brandon Weiler, City of Pickering Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Aaron Christie, Region of Durham Tom Casher, GHD Katrina McCullough, GHD Ray Cantwell, Jacobs Tom Mahood, Jacobs Jasmine Biasi, Jacobs		
Copy to		Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Summary of questions and comments raised during the meeting:

- City is supportive of the new Pickering Parkway SPS included as it will support City Centre development.
- What modifications are planned/needed for the existing outfall?
 - Upgrades were made to the diffusers to meet the Ministry's requirements, as well as upgrades at the Plant. Updates regarding these upgrades are given at advisory committee meetings, which the City is a member of. The expansion proposed as part of the York Region Sewage Works Project will increase the capacity from 630 MLD to 940 MLD.
- Will the new outfall replace the existing outfall or work in tandem?
 - The new outfall will replace the existing; however, there will be a period of time when both will be in service.
- What is the timing for the New Pickering Parkway Sewage Pumping Station?
 - An implementation plan will be included in the Project Report. The new pumping station will be brought online when it is needed based on flows.
- City requested a copy of the FAQs. Katrina to provide once reviewed by York Region. Aaron to provide a copy of Council Report.
- Will the twinning of the Primary Trunk require additional lands or is there sufficient land within the existing corridor? The exact alignment is still being determined; however, it was noted that there would be some challenges with the existing corridor.
- Recommended that the project team review the Squires Beach to Notion Road Highway 401 Crossing EA. Noted that Durham Region has advised the developer of the need for the new Squires Beach SPS.
- Agreed that the City would review the conceptual design to identify any major concerns or comments.

Attachments:

- York Region Sewage Works Introductory Presentation

This confirms and records GHD's interpretation of the discussions which occurred and our understanding reached during this meeting. Unless notified in writing within 7 days of the date issued, we will assume that this recorded interpretation or description is complete and accurate.

NOTE: If the information in this report does not agree with your record of this meeting or if there are any omissions, will you kindly advise this office immediately? Otherwise, we shall assume its contents to be correct.

Distribution: All Present/Absent

Meeting notes

External

21 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with City of Markham and Town of Whitchurch-Stouffville	Tel / email address	416-866-2365/ Katrina.McCullough@ghd.com
Date/Time	Monday, July 5, 2023 10:00 a.m. – 12:00 p.m.	Project no.	12612540
Attendees inc. company	Christopher Kalimootoo, City of Markham Salia Kalali, City of Markham Alex Lee, City of Markham Dave Kenth, Town of Whitchuch-Stouffville Dwayne Tapp, Town of Whitchuch-Stouffville Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Tom Casher, GHD Katrina McCullough, GHD Ray Cantwell, Jacobs Tom Mahood, Jacobs Jasmine Biasi, Jacobs		
Copy to		Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Meeting recording: https://ghdnet-my.sharepoint.com/:v/g/person/katrina_mccullough_ghd_com/EVTdbLBGVotGsW0D01wVbvQBpuKfr4339JVSJjcbI3Gm4Q?e=AfrUqD

Summary of questions and comments raised during the meeting:

- Is there a mandated number of days for review after submission?
 - The Ministry has not identified a timeline yet. Municipalities are also encouraged to provide comments prior to release of the Project Report.
- Will new development be able to connect into the sewer?
 - The connection points for local municipalities have not been determined yet
- Will the alignment for the Markham Collector Twinning be within the Ministry of Transportation alignment?
 - The project team is currently considering an alignment primarily within the hydro corridor. It is unlikely it will be located within the Ministry of Transportation right of way
- Will this Project support growth in Whitchurch-Stouffville, such as the North Markham-Stouffville MZO?
 - The purpose of this Project is to accommodate future growth in upper York. Growth in Whitchuch-Stouffville is planned through the Region's master planning process. Post meeting note: Wendy Kemp, York Region Director of Infrastructure Asset Management, noted that the North Markham-Stouffville MZO will be discussed at one of their upcoming meetings with Whitchurch-Stouffville.
- Markham staff are supportive of reviewing the conceptual design. Their primary interests are potential disruptions to the public and whether the City can connect into the sewer.
- Does this Project change the inflow/infiltration and water conservation programs? No, this Project does not change those programs.
- The Markham Centre Secondary Plan is within the study area and is in progress

Attachments:

- York Region Sewage Works Introductory Presentation

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Distribution: All Present/Absent

Meeting notes

External

21 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with the Town of Ajax	Tel/email address	416-866-2365/ Katrina.McCullough@ghd.com
Date/Time	Thursday, July 13, 2023 1:00 – 2:00 p.m.	Project no.	12612540
Attendees inc. company	Stev Andis, Planning, Town of Ajax Bruno Scopacasa, Development Approvals, Town of Ajax Cameron Richardson, Sustainability and Climate Change, Town of Ajax Steven Ruddy, Development and Engineering Elizabeth Wood, Town of Ajax Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Katrina McCullough, GHD Ray Cantwell, Jacobs Tom Mahood, Jacobs Jasmine Biasi, Jacobs		
Copy to	Geoff Romanowski, Town of Ajax	Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Meeting recording: https://ghdnet-my.sharepoint.com/:v/q/personal/katrina_mccullough_ghd_com/EclsPWu_fidOvDV8LZURIXIBMTYafaNolpXZWrX-iClq?e=t31icQ

Summary of questions and comments raised during the meeting:

- As part of the expert panel that approved the [Upper York] solution, there were some recommendations, including the hydraulic modelling to confirm the flows and confirmation that the existing intra-basin transfer agreement would be sufficient for the servicing beyond 2051. Is this being conducted?
 - Yes, hydraulic modelling is being conducted as part of the Project. The Project is within intra-basin transfer limits.
- What is the length of the new outfall?
 - The project team is evaluating distances between 2.5 – 3.0 km compared to the existing outfall which is 1.1 km. The western alignment is being carried forward in part due to its distance from Ajax.
- Is the existing outfall going to remain or it is going to be replaced?
 - The existing outfall will remain, but it is the intent to use the new outfall as the duty for all flows.
- Does this Project change any previous commitments made during the previous outfall EA?
 - The existing permitted average day flow capacity is 540 ML/d. There is a project underway, the PRAP implementation, that has regular advisory committee meetings, in which there will be several upgrades slated to be finished around end of 2023. Once those upgrades are in place, the requirements of the EA will be met, and the average day flow rated capacity will increase to 630 ML/d. That has all the total phosphorus limits and objectives that were agreed to at the end of the EA process.
 - The expansion proposed as part of this Project will provide an average day flow rated capacity of 940 ML/d using the same concentration limits for total phosphorus and wells as other parameters established in the latest ECA.

Meeting Summary

– What is the commenting period?

- The Project Team is seeking comments as the Project Report is being developed. The Ministry has not provided a timeline for the review of the Project Report.

Attachments:

- York Region Sewage Works Introductory Presentation

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Distribution: All Present/Absent

Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with Town of Aurora, Town of Newmarket, and Town of Whitchurch-Stouffville	Tel/email address	416-866-2365/ Katrina.McCullough@ghd.com
Date / Time	Monday, July 17, 2023 9:00 – 10:00 a.m.	Project no.	12612540
Attendees inc. company	Luigi Colangelo, Operations, Town of Aurora Sara Tienkamp, Parks and Fleet, Town of Aurora Jack Graziosi, Infrastructure Delivery, Town of Whitchurch-Stouffville Rachel Prudhomme, Engineering Services, Town of Newmarket Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD		
Copy to	Nancy Fleming, Engineering and Capital Delivery, Town of Aurora	Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Meeting recording: [https://ghdnet-my.sharepoint.com/:v/r/personal/katrina_mccullough_ghd_com/Documents/Recordings/York Region Sewage Works - Project Introduction with Local Municipalities \(Option 3\)-20230717_090432-Meeting Recording.mp4?csf=1&web=1&e=JANKd7](https://ghdnet-my.sharepoint.com/:v/r/personal/katrina_mccullough_ghd_com/Documents/Recordings/York Region Sewage Works - Project Introduction with Local Municipalities (Option 3)-20230717_090432-Meeting Recording.mp4?csf=1&web=1&e=JANKd7)

Summary of questions and comments raised during the meeting:

- Where is the new pumping station on Mulock Drive?
 - The new Mulock Pumping Station is proposed to be located near the intersection of Mulock Drive and Leslie Street. The project team will circulate the conceptual design when available and request comment from the municipalities on the proposed locations of pumping stations.
- Newmarket noted they may not require a meeting to walk through the conceptual design and can provide comments over email.

Attachments:

- York Region Sewage Works Introduction Presentation

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Distribution: All Present/Absent

Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with City of Richmond Hill	Tel/email address	416-866-2365/ Katrina.McCullough@ghd.com
Date/Time	Monday, July 17, 2023 10:30 a.m. – 11:30 a.m.	Project no.	12612540
Attendees inc. company	Frank Quarisa, Public Works Operations, City of Richmond Hill Bob Levesque, Infrastructure Delivery, City of Richmond Hill Paolo Masaro, Infrastructure and Engineering Services, City of Richmond Hill Jeremy Wychreschuk, Water Resources, City of Richmond Hill Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Jason Morris, York Region Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD	Apologies inc. company	Nick Kalyvas, Facility Management, City of Richmond Hill
Copy to		Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Action items

- GHD (Katrina) to coordinate with Bob as the single point of contact for the City

Meeting recording: https://ghdnet-my.sharepoint.com/:v/g/personal/katrina_mccullough_ghd_com/Ea03RP2qbTZKsCQFzxxhCJMsB93nIPpq90mRTWsPX2kCX2A?e=nvHWgu

Summary of questions and comments raised during the meeting:

- At Stouffville and Yonge, residents had petitioned to connect septic systems. Is there an opportunity to connect at Stouffville Road as a potential add-on in the future? The City is working on full network modelling and will be interested to identifying how this project provides service relief.
 - Connections would be reviewed through the development approval process. While the primary purpose of the project is to service upper York Region, there may be an opportunity to provide servicing in Richmond Hill.
- Bob to coordinate as the single point of contact to deliver materials and notes. Richmond Hill will seek comments and answers internally from appropriate personnel to make it as streamlined as possible.
- Richmond Hill recognizes this is an accelerated project and will do what they can to support this.
- Is the Duffin Creek WPCP expansion right away or at the same time as other elements?
 - The Duffin Creek WPCP expansion is not needed immediately. A phasing plan will be included in the Project Report.
- Will source water protection be considered?
 - Yes, source water protection is being considered as part of the impact assessment.

Attachments:

- York Region Sewage Works Introductory Presentation

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Distribution: All Present/Absent

Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with Town of East Gwillimbury	Tel/email address	416-866-2365/ Katrina.McCullough@ghd.com
Date/Time	Wednesday, July 19, 2023 3:30 – 4:30 p.m.	Project no.	12612540
Attendees inc. company	Paul Neuman, Engineering, Town of East Gwillimbury Jeff Meggitt, Operations, Town of East Gwillimbury Kevin Brake, Development Services, Town of East Gwillimbury Mike Molinari, Community Infrastructure and Environmental Services, Town of East Gwillimbury Pina Accardi, York Region Shu He, York Region Jason Morris, York Region Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD		
Copy to	Margot Bégin Victoria Moore	Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Action Items

- York Region and Town of East to identify stages of project during which meetings on master plan of servicing can occur
- GHD (Katrina) to contact TMHC and see if Josh is still waiting for municipally registered heritage resources in the study area from East Gwillimbury. If outstanding, follow up with Victoria Moore (Development Planner) from the Town to respond (Victoria is currently short-staffed)
- GHD (Katrina) to invite Planning staff from the Town to next meetings, including Victoria Moore and Margot Bégin (General Manager, Development Services)

Meeting recording: https://ghdnet-my.sharepoint.com/:v/r/personal/katrina_mccullough_ghd_com/Documents/Recordings/York%20Region%20Sewage%20Solutions%20-%20East%20Gwillimbury-20230719_153833-Meeting%20Recording.mp4?csf=1&web=1&e=eGuOfE

Summary of questions and comments raised during the meeting:

- Will the project components be phased? Is there an allocation assignment determined?
 - Yes, the Project Report will include an implementation plan with anticipated phasing. Project components will be constructed as needed to accommodate growth.
- What is planned for the two forcemains constructed on 2nd Concession to pump sewage north to the planned Water Reclamation Centre?
 - Those forcemains will be converted to gravity sewers and they will take discharge from the Queensville West pumping station and the Holland Landing pumping station. This will involve isolated work along the alignment such as installing manholes and potentially re-laying a portion to allow for an appropriate slope.
- The Sharon Trunk is envisioned to come down to Green Lane. Will there be overlap in those two systems?

Meeting Summary

- The Sharon Trunk will continue to discharge to the 2nd Concession pumping station. Queensville East pumping station will tie in at the top end of the Sharon Trunk.
- Are there opportunities to connect to the system at the intersection of Leslie Street and Green Lane as new development is proposed at the northwest corner and will be conveyed west to 2nd Concession.
 - That is a potential and could be investigated further during detailed design.
- Will construction methodology be trenchless or open cut? Trenchless is preferred to minimize impact on traffic and residents.
 - Comment noted. Open cut will be used where possible depending on environmental considerations.
- Will the existing Duffin Creek WPCP outfall be maintained?
 - The new outfall will replace the existing outfall, but the existing outfall will be kept in place as a backup system.
- Is there opportunity to advance construction on a particular phase of the project depending on development pressure?
 - This would require further discussion during detailed design.
- Does East Gwillimbury benefit from the first phase of works in terms of receiving allocation?
 - Yes the first phase of work will provide more capacity for East Gwillimbury and Newmarket.
- Clarify the presence of the East Gwillimbury and Newmarket pump stations at the same location. The East Gwillimbury pump station is proposed to handle flow from East Gwillimbury.

Attachments:

- York Region Sewage Works Introductory Presentation

This confirms and records GHD's interpretation of the discussions which occurred and our understanding reached during this meeting. Unless notified in writing within 7 days of the date issued, we will assume that this recorded interpretation or description is complete and accurate.

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Distribution: All Present/Absent

Meeting notes

External

31 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction to Township of King and City of Vaughan	Tel / email address	416-866-2365 / Katrina.McCullough@ghd.com
Date / Time	Monday, July 31, 2023 10 a.m. – 11 a.m.	Project no.	12612540
Attendees inc. company	Samantha Fraser, Public Works, Township of King Kyle Snell, Environmental Services, Township of King Michael Frieri, Corporate Asset Management, City of Vaughan Shu He, York Region Jose Manalo, York Region Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD		
Copy to		Location	MS Teams
Objective	Project Introduction		

Meeting Summary

Meeting recording: [York Region Sewage Works Project Introduction with King Township-20230731_100842-Meeting Recording.mp4](#)

Summary of questions and comments raised during the meeting:

- Does the Leslie Street alignment for the Yonge Street sewer twinning affect King Township, as they understood that sewer was required to accommodate growth in King Township.
 - While the purpose of this Project is to address growth in East Gwillimbury, Newmarket and Aurora, the Leslie Street Trunk Sewer is expected to free up capacity in the existing Yonge Street sewer.
- Will there be sufficient capacity at the Duffin Creek Water Pollution Control Plant (WPCP) for Vaughan, Noting that Vaughan's requirements are complicated by the uncertainties around available capacity in Peel Region due to dissolution?
 - Capacity requirements for Vaughan are being addressed through the master planning process.
- Will the impact assessment in the Project Report consider intra-basin transfer?
 - The Project is within the permitted range for intra-basin transfer.

Attachments:

- York Region Sewage Works Introductory Presentation

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Distribution: All Present/Absent

Meeting notes

External

11 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for Town of Ajax	Tel/email address	519-340-3743/ Kevin.Campbell@ghd.com
Date/Time	Friday, August 11, 2023 2 p.m. – 3 p.m.	Project no.	12612540
Attendees inc. company	Geoff Romanowski, Planning and Development Services, Town of Ajax Stephen Ruddy, Development Engineering, Town of Ajax Stev Andis, Planning, Town of Ajax Cameron Richardson, Environment and Climate Change, Town of Ajax Jose Manalo, York Region Brad Dobson, Durham Region Ray Cantwell, Jacobs Adrienne Willoughby, Jacobs Laura Guerra Reyes, Jacobs Tom Casher, GHD Alison Springate, GHD Kevin Campbell, GHD	Apologies inc. company	Bruno Scopasa, Town of Ajax Elizabeth Wood, Town of Ajax David Meredith, Town of Ajax Shu He, York Region Pina Accardi, York Region Aaron Christie, Durham Region Tom Mahood, Jacobs Katrina McCullough, GHD
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- Ajax to provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by Aug. 25

Summary of questions and comments raised during the meeting:

- During operation, when Stage 4 of the WPCP is built out, what are the obligations for reporting on air quality? Is that annual?
 - It is not expected that the current requirements will change. It is anticipated that all monitoring and reporting per the current Environmental Compliance Approval will continue and it will include Stage 4.
 - There haven't been any complaints recorded to Ajax or Pickering on odour for the last seven years. There are protocols in place for when complaints come in that triggers action per the Facility's odour management plan. There is a significant amount of monitoring of plant activities and contract activities to prevent odour events.
 - Ajax noted they do not know if complainants that would go to Ajax have continued to take complaints to MECP as the reporting structure has changed to direct complaints to MECP. Jacobs noted that MECP has not reported any complaints recently.
- What is involved in a bore hole offshore?
 - Bore holes can only be drilled offshore about five months a year. The barge is anchored to the lake bottom using spuds to perform drilling. Care is taken to avoid impacting the lake environment. It's about a five-year undertaking for a concept/plan and two years for field work.

Meeting Summary

- What is the timeline expectation for a new outfall?
 - Based on the population and flow forecast, it is anticipated that the new outfall will be needed by 2036. Likely Stage 4 and a new outfall will come online at the same time. There are factors that could push Stage 4 earlier than the outfall and the construction duration is significant. The timeline will also be clear in the Project Report.
- Is the Primary Trunk Twinning (Pickering) going under Highway 401?
 - The trunk is going through and under the CNR and Highway 401.
 - The new primary trunk is considerably deeper than the existing primary trunk.
 - Both new pumping stations will need to be able to pump to either of the primary trunks (existing and new) in the future.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

Meeting notes

External

14 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for Local Municipalities	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Monday, August 14, 2023 3 p.m. – 4 p.m.	Project no.	12612540
Attendees inc. company	Luigi Colangelo, Infrastructure and Environmental Services, Town of Aurora Shu He, York Region Grant Procnier, GHD Sama Abdullah, GHD Kevin Campbell, GHD	Apologies inc. company	Katrina McCullough, GHD Tom Casher, GHD Jose Manalo, York Region
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- Aurora to provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by Aug. 25

Summary of questions and comments raised during the meeting:

- Noted that York Region may need to purchase land from the Montessori School for the New Aurora East Sewage Pumping Station. An alternate potential location is the east side of Industrial Parkway. The Town noted that there is a turtle nesting area within that Tom Taylor Trail.
 - Yes, for the location on the south side of St. Johns Sideroad land from the Montessori School would be required. However, other locations are being considered including the same site as the existing Aurora SPS. The Region is consulting the LSRCA to understand the floodplain implications with this location.
- Some residents raised concerns about odour at the existing station.
 - A new pumping station with air management could help reduce or eliminate odour issues.
 - Having the new pump station close to the existing pumping station allows for the use of the existing equalization tanks and limit the risk of overflows in the area.
- If we want to discuss this further, who should we talk to from the Town of Aurora?
 - Marco Ramunno, Director of Planning.
- The project team asked about existing infrastructure on Leslie Street between St. John's Sideroad and Mulock Drive.
 - The Town has no significant concerns with existing infrastructure. There is a watermain crossing for the subdivision on the east side of Melvin Robson Ave. and the Region's watermain on Leslie Street.
- What is the timeframe for construction?
 - The Project will be phased based on when growth is expected to occur. The initial phase will include the Leslie Street Trunk Sewer from Bloomington Road to 19th Avenue and the Bloomington interceptor by approximately 2028.
- Was the Yonge Street Sewer rehabilitated between Yonge Street and Bloomington Road south to the first intersection?
 - Small sections of the Yonge Street Sewer have been rehabilitated in the past .

Meeting Summary

- Does the Region already have a forcemain on Bayview Ave that connects to Yonge Street?
 - Yes. The existing forcemain turns the corner at Bloomington Road and discharges into a gravity sewer further down Bloomington. The new forcemain will intercept the existing forcemain at the corner of Bayview Avenue and Bloomington Road and discharge into the new Bloomington Interceptor.

Attachments:

- o York Region Sewage Works Working Conceptual Designs Presentation

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Meeting notes

External

16 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs – City of Pickering	Tel / email address	519-340-3743/ Kevin.Campbell@ghd.com
Date / Time	Wednesday, August 16, 2023 4 p.m. – 5 p.m.	Project no.	12612540
Attendees inc. company	Richard Holborn, Engineering Services, City of Pickering Mark Guinto, Public Affairs and Corporate Communications, City of Pickering Catherine Rose, Chief Planner, City of Pickering Shu He, York Region Jose Manalo, York Region Patricia Casco, Durham Region Brad Dobson, Durham Region Tom Mahood, Jacobs Jasmine Biasi, Jacobs Adrienne Willoughby, Jacobs Laura Guerra-Reyes, Jacobs Tom Casher, GHD Katrina McCullough, GHD Sama Abdullah, GHD	Apologies inc. company	Aaron Christie, Durham Region Ray Cantwell, Jacobs Fiaz Jaroon, City of Pickering
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- Pickering to provide any comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca)

Summary of questions and comments raised during the meeting:

- If the City of Pickering raises the intersection by 4-5 metres to elevate the roads and construct a bridge over Highway 401, will that be taken into account with respect to the concrete strength for the pipe?
 - Yes, that will be considered during the future preliminary and detailed design stages. The potential bridge was considered as part of the conceptual design.
- Will this sewer be designed under positive or negative pressure so the air is pulled back and treated at an existing odour control facility, similar to the Southeast Collector, or will there be a requirement for a new odour control facility?
 - Both options are being considered; that will be decided during preliminary design once more detailed modelling is complete.
- Where is the Pickering Parkway SPS collecting sewage from and where is it pumping to? Is it going to be located underground and if so, could it accommodate other uses above ground?

Meeting Summary

- We have been given the area that is tributary to the new pump station and have developed future flow estimates based on that. In regard to the design of the pump station; that has been brought up in our concept development. Jacobs has been asked by the Region of Durham to provide examples from other pump station projects that may provide some insights on the potential design before the preliminary design stage gets underway.
- Does the removal of the Cherrywood area from the Greenbelt affect this project?
 - Post-meeting note: Since the purpose of this Project is to accommodate growth in upper York, the Project Report does not include an assessment of impacts related to potential developments within the greenbelt. Notwithstanding, all of the relevant infrastructure is being sized based on the assumption that the lands in Pickering that have been removed from the Greenbelt will be developed.
- What is the schedule for detailed design and construction?
 - For the Primary Trunk, preliminary and detailed design would occur in 2024 – 2026, construction would occur in 2027-2031 as a conservative estimate.
- When do you expect community engagement to take place?
 - A Project Notice was released in July and the Project Report will be available for public review. Community consultation will continue after Minister approval.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

Meeting notes

External

16 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for Local Municipalities	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Wednesday, August 16, 2023 1 p.m. – 2 p.m.	Project no.	12612540
Attendees inc. company	Rachel Prudhomme, Engineering Services, Town of Newmarket Shu He, York Region Jose Manalo, York Region Tom Casher, GHD Grant Procuier, GHD Ben Samuel, GHD Katrina McCullough, GHD Sama Abdullah, GHD	Apologies inc. company	Kevin Campbell, GHD
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- Newmarket to provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by Aug. 25

Summary of questions and comments raised during the meeting:

- Are the two new Queensville East Sewage Pumping Station forcemains parallel to each other and are they there to provide redundancy?
 - Yes, the Region's standard is to provide two forcemains for pump stations so there is redundancy that allows for maintenance or repair of a forcemain.
- Will the new 2nd Concession South gravity sewer be a single gravity sewer?
 - Yes, it is standard practise for gravity sewers to be a single pipe.
- Currently the 2nd Concession SPS has a forcemain going to the Newmarket SPS. Will this existing forcemain be used as a potential bypass?
 - The 2nd Concession gravity sewer will provide additional capacity. The existing forcemain will be retained and may be used as bypass. The Region typically does not abandon existing infrastructure.
- Will there be two new pump stations in Newmarket? Would the new Newmarket East SPS replace the existing Newmarket SPS?
 - Two new pumping stations are proposed in Newmarket: 1) Mulock SPS on Leslie Street near Mulock Drive and 2) Newmarket East SPS in the vicinity of the existing Newmarket SPS. The existing Newmarket SPS would be upgraded and service flows from Newmarket. The new Newmarket East SPS will handle flows from East Gwillimbury. For redundancy and operations flexibility there will be a connection between the existing Newmarket SPS and the new Newmarket East SPS. In addition, upgrades are proposed to the existing Bogart Creek SPS. Also, there is an advantage to having both pumping stations connected to the existing equalization tanks at Newmarket SPS to avoid overflows.
- Will the existing Green Lane sewer tie into the new 2nd Concession gravity sewer and will this new sewer be constructed by micro-tunnelling?

Meeting Summary

- Yes, the existing Green Lane sewer will tie into the new 1800-millimetre diameter gravity sewer on 2nd Concession/Main Street. The new gravity sewer will be installed by tunnelling, for this size and depth it will likely be micro-tunnelling.
- What kind of transition is there between a forcemain and gravity flow?
 - There would be a large chamber where the two forcemains discharge with sluice gates on the end of the forcemains to isolate either forcemain. There may be a building on the surface for ventilation or air management.
- Will the new Mulock SPS be the same size as the new Newmarket East SPS?
 - The two pumping stations will have similar capacity.
- The Town owns property north of Bogartown Curve that could potentially be used for the new Mulock SPS.
 - York Region will follow up with the Town's legal department to discuss further and consider this location in the Project Report.
- Is the current location for the Mulock SPS within the LSRCA regulated area?
 - Yes it is.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

Meeting notes

18 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for Municipalities	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Friday, August 18, 2023 2 p.m. – 3 p.m.	Project no.	12612540
Attendees inc. company	Paul Neuman, Engineering, East Gwillimbury Kevin Brake, Development, East Gwillimbury Margot Begin, Development Services, East Gwillimbury Mike Molinari, Engineering and Public Works, East Gwillimbury Luis Dejesus, Capital Infrastructure Programming, Richmond Hill Sebough Apigian, Infrastructure Delivery, Richmond Hill Jose Manalo, York Region Shu He, York Region Tom Mahood, Jacobs Christal Mapp-Reid, Jacobs Grant Procnier, GHD Tom Casher, GHD Katrina McCullough, GHD Alison Springate, GHD	Apologies inc. company	
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- East Gwillimbury and Richmond Hill to provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by August 25

Summary of questions and comments raised during the meeting:

East Gwillimbury

- Will the conversion of forcemains on 2nd Concession require construction on 2nd Concession?
 - Two new manholes will be installed near the driveway of the existing 2nd Concession SPS. Some localized roadwork will be required and a short section of forcemain may need to be replaced. A full road closure is not anticipated to be required.
- The project team asked if any development applications have been received in the area of the new Queensville East SPS that should be considered during siting.
 - Not that the Town is aware of. There are Town owned facilities on the north side of Queensville Sideroad. The location of a SPS could impact the Town's master planning for this area.

Meeting Summary

- Is there an opportunity for the new Queensville East forcemain to be constructed on Woodbine Avenue rather than Leslie Street since Leslie Street is constrained?
 - The project team will consider this alignment in relation to the catchment area of the new Pumping Station.
- Would the Town have an opportunity to tie into the new infrastructure at Leslie Street and Green Lane?
 - This will be investigated further during detailed design and will depend on the final sewer elevation.
- East Gwillimbury's Master Plan currently includes an east-west collector on Green Lane that goes north near Murrell Blvd and ties into the Sharon trunk sewer. If it ties into the new Leslie Street sewer, the development community may be interested in helping to advance its construction.

Richmond Hill

- Consider coordination with the Regional project on Stoneville Road and Leslie Street in 2025.
 - York Region is coordinating internally to coordinate projects.
- Noted there is a significant amount of development activity on Leslie Street to consider for construction coordination.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

F-2 Federal, Provincial and Regional Agencies

Meeting minutes

External

22 August 2023

Project name	York Region Sewage Works Project - Project Report - Consultation	From	Katrina McCullough
Subject	Consultation with Indigenous Nations	Tel / email address	+1 416 866-2365 / katrina.mccullough
Date / Time	Aug 14, 2023	Project no.	12612540
Attendees inc. company	Tom North, Ministry of the Environment, Conservation and Parks (MECP) Janet Williams, MECP Ashley Johnson, Indigenous Affairs Ontario Robert Andrews, Indigenous Affairs Ontario Sarah, Indigenous Affairs Ontario Joel, Indigenous Affairs Ontario Laurie Boyce, L3 ESP Ltd. Jose Manalo, York Region Katrina McCullough, GHD		
Copy to	N/A	Location	MS Teams

Meeting Summary

Action Items

- MECP to advise if they have alternate contacts for Nations that GHD has not been able to get in touch with
- GHD to provide weekly update and tracking table to MECP

GHD provided a summary of consultation that has occurred with each Indigenous Nation

- GHD noted the Nations that have not responded to repeated requests MECP to advise if they have alternate contacts for Nations that GHD has not been able to get in touch with.
- MECP noted the importance of including the details of follow-up attempts

MECP requested that GHD and York Region provide weekly updates and a tracking table on ongoing consultation with Indigenous Nations.

- MECP provided a template and noted they were flexible if GHD/York Region had a different template in mind. MECP noted they would like the tracking table to indicate if a Nation has requested capacity funding.

Attachments:

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Distribution: All Present/Absent

Meeting minutes

External

22 August 2023

Project name	York Region Sewage Works Project - Project Report - Consultation	From	Katrina McCullough
Subject	Duffin Creek WPCP	Tel / email address	+1 416 866-2365 / Katrina.mccullough
Date / Time	Aug 22, 2023	Project no.	12612540
Attendees inc. company	Tom North, Ministry of the Environment, Conservation and Parks (MECP) Aziz Ahmed, MECP Ted Belayneh, MECP Janet Williams, MECP Adedoyin Adenowo, MECP Laurie Boyce, L3 ESP Ltd. Joel Gretton, EXP Mike Rabeau, York Region Pina Accardi, York Region Shu He, York Region Mukund Padhye, York Region Jose Manalo, York Region Aaron Christie, Durham Region Tom Casher, GHD Katrina McCullough, GHD Tom Mahood, Jacobs Adrienne Willoughby, Jacobs		
Copy to	N/A	Location	MS Teams
Objective	Review Duffin Creek WPCP Proposed Effluent Criteria		

Meeting Summary

Action Items

- MECP to comment on the proposed approach to effluent criteria - maintain existing concentration limits increase total phosphorus load limit to reflect increase of capacity
- MECP to advise if they will attend the meeting on September 6 with the Town of Ajax to present the preliminary results of the Receiving Water Impact Assessment

Jacobs provided a summary of the Receiving Water Impact Assessment (RWIA):

Meeting Summary

- Approach follows MECP guidelines to evaluate impacts of WPCP expansion and new outfall on nearshore water quality at key locations.
- Modelling considers future plant capacity 940 ML/d and current ECA concentration limits:

Parameter	Annual Average	Apr 1 to Aug 31	May 1 to Oct 31	Nov 1 to Apr 30
Total Ammonia Nitrogen (TAN) (mg/L)	-	-	6.0	10.0
Total Phosphorus (TP) (mg/L)	0.45	0.45	-	-

- For total phosphorus, the maximum instantaneous concentration was modelled to be below the Provincial Water Quality Objective of 0.02 mg/L at all receptor locations that were investigated, and the average concentration was modelled to be at or slightly above ambient concentrations (approx. 0.009 mg/L) at all locations.
- For total ammonia nitrogen, the maximum instantaneous concentration was modelled to be below Great Lakes Water Quality Agreement objective of 0.5 mg/L at all receptor locations that were investigated, and average concentration was modelled to be at or slightly above ambient concentrations (approx. 0.05 mg/L) at all locations.
- A longer (2.5 - 3km) outfall has greater benefits for receiving water.
- York and Durham Regions are committed to maintaining optimized TP removal performance for expanded plant:
 - Seasonal (Apr – Aug) average objective: 0.35 mg/L
 - Seasonal (Apr – Aug) and annual average limit: 0.45 mg/L
- Phosphorus load limits will increase to approximately 423 kg/day to reflect increase of capacity to 940 MLD.
- RWIA demonstrates PWQO, GLWQA objectives are achievable for future plant and outfall at 0.45 mg/L (without tertiary treatment).
- Investigation of Cladophora algae is out of the scope of the Project.

The following is a summary of discussion based on questions and comments raised by MECP and EXP:

- EXP/ L3 ESP Ltd.: Would there be any challenges meeting the existing limits at future flows? Jacobs responded that the limits being discussed are the total phosphorus concentration. The phosphorus load limits would increase to reflect the increase of capacity.
- MECP: No significant concerns, however will provide comment during review of Project Report. Suggest that this is shared with MECP senior management.
- EXP/ L3 ESP Ltd.: Have any concerns been raised by stakeholders, including the Town of Ajax, about any of the proposed treatment processes or technologies for the plant expansion? Jacobs responded that they have not had any questions about the treatment process; however, Ajax expressed their preference for the expanded plant to include tertiary treatment. The conceptual design in the Project Report is based on technologies currently used for the existing plant. An evaluation of alternative treatment processes and technologies for preliminary treatment, primary treatment, secondary treatment, disinfection, and solids handling will be undertaken during preliminary design. Tertiary treatment is not included in the Project.
- MECP: Will respond to question about effluent criteria and advise if they are interested in attending Sep 6 meeting. It will be important to distinguish what is in the scope of the Project Report, what is out of scope of the Project Report, and what will be addressed during preliminary design and future Environmental Compliance Approval amendments.
- EXP/ L3 ESP Ltd.: Thought that originally expansion was for 840 MLD not 940 MLD. Jacobs and York Region responded that 940 MLD is the ultimate capacity; 840 MLD may have been based on previous population projections without the upper York area.

Attachments:

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Meeting minutes

External

31 August 2023

Project name	York Region Sewage Works Project - Project Report - Consultation	From	Katrina McCullough
Subject	Consultation with Indigenous Nations	Tel / email address	+1 416 866-2365 / katrina.mccullough
Date / Time	Aug 30, 2023	Project no.	12612540
Attendees inc. company	Tom North, Ministry of the Environment, Conservation and Parks (MECP) Janet Williams, MECP Holly Buchanan, MECP Adedoyin Adenowo, MECP Shu He, YR Jose Manalo, YR Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD		
Copy to	N/A	Location	MS Teams

Meeting Summary

Action Items

- GHD / YR to finalize Indigenous Consultation Plan
- MECP will advise on the review period of the Project Report for Indigenous Nations
- MECP to advise on whether the Consultation Reports submitted with the Project Report should be marked as 'draft' or 'final'

Notes provided by MECP prior to the meeting:

Top-line

- Ministry staff appreciate the opportunity to review and provide feedback on the comprehensive Indigenous Consultation Plan (consultation plan)
- Ministry staff did not identify any significant concerns with the consultation plan.
- Ministry staff encourage an open dialogue as the consultations proceed to discuss progress and proactively identify solutions
- On-going updates via the ***new*** tracker are a productive way to identify and manage issues

Items for Consideration

- Maintain dialogue with the ministry on time required to undertake meaningful consultations
 - Figure 4.1 provides a breakdown of the consultation phases. Timelines for Phase 3 and the preparation of the final report may require additional time to ensure meaningful consultations

Meeting Summary

- Appropriately noted in Table 5.1 as an interest and concern
- Opportunities for early information sharing related to 6.2 participant and communications log and 6.3 monitoring
- Use neutral/objective language in communication materials (e.g., Act/ province establish the requirements and timelines, as compared to constraints)
- Clarify this message “*We anticipate that this consultation will result in commitments for future consultation after the Project Report is submitted.*” *Is not about limiting or by-passing consultation on the project report.*

Next Steps

- Establish a focused bi-weekly working group to discuss issues related to the implementation of the consultation plan; specific discussion items include:
 - Considerations and approaches for capacity funding (week of Sept 5, 2023)
 - Approach to addressing non-contacts (week of Sept 5, 2023)
- Ministry to provide an updated list of contact details in the coming days
 - Huron-Wendat
 - Beausoliel First Nation
 - Kawartha Nishnawbe First Nation (no phone # found, mailed letter returned to sender)
 - Curve Lake First Nation
 - Karry Sandy Mackenzie
- Discuss considerations for completing Phase 3 and the consultation report, while ensuring meaningful consultation (week of Sept 18, 2023)
- On-going presentation of the consultation tracker to the ministry

Indigenous Consultation Plan:

- MECP has no major comments on the Consultation Plan
- GHD / YR to finalize Consultation Plan

Review of Project Report

- MECP noted that York Region can determine what an appropriate review period is for the Project Report for interested persons.
- MECP will advise on the review period for Indigenous Nations since the duty to consult remains with the MECP. MECP advised that they may not set a firm deadline for Indigenous Nations

Schedule for Indigenous Consultation Report and Interested Persons Consultation Report

- MECP’s understanding of the legislation is that Draft Consultation Reports will be submitted when the Project Report is submitted (e.g. Oct 30). York Region’s understanding of the legislation is that the Consultation Report is submitted as final. MECP to review with their legal counsel and advise.

Attachments:

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Distribution: All Present/Absent

Meeting notes

External

6 September 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Receiving Water Impact Assessment Results Overview	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Wednesday, September 6, 2023 2:30 p.m. – 3:30 p.m.	Project no.	12612540
Attendees	<p>Cameron Richardson, Environment and Climate Change, Town of Ajax</p> <p>Geoff Romanowski, Planning and Development Services, Town of Ajax</p> <p>Stev Andis, Planning, Town of Ajax</p> <p>Bruno Scopacasa, Planning and Development Services, Town of Ajax</p> <p>Harsimrat Pruthi, Senior Planner, TRCA</p> <p>Suzanne Bevan, Senior Planner, TRCA</p> <p>Tammy Duong, Ecologist, TRCA</p> <p>Don Ford, Hydrogeology, TRCA</p> <p>Eric Wang, Water Resources, TRCA</p> <p>Krista Chomicki, Watershed Specialist, TRCA</p> <p>Cherilyn Silvestri, Water Resources, TRCA</p> <p>Katharine McCarter, Ecologist, TRCA</p> <p>Aaron Christie, Durham Region</p> <p>Shu He, York Region</p> <p>Ray Cantwell, Jacobs</p> <p>Adrienne Willoughby, Jacobs</p> <p>Laura Guerra Reyes, Jacobs</p> <p>Tom Casher, GHD</p> <p>Katrina McCullough, GHD</p> <p>Kevin Campbell, GHD</p>	Apologies	<p>Elizabeth Wood, Town of Ajax</p> <p>Stephen Ruddy, Town of Ajax</p> <p>Dave Meredith, Town of Ajax</p> <p>Rebecca Spence, TRCA</p> <p>Beth Williston, TRCA</p> <p>Rick Portiss, TRCA</p> <p>Pina Accardi, York Region</p> <p>Jose Manalo, York Region</p>
Copy to		Location	MS Teams
Objective	Receiving Water Impact Assessment Results Overview		

Meeting Summary

Link to recording of meeting presentation:

[York Region Sewage Works - Receiving Water Impact Assessment Preliminary Results Overview-20230906_143332-Meeting Recording.mp4](#)

Summary of questions and comments raised during the meeting:

- What are the water quality objectives that need to be met at the edge of the mixing zones? Are these the red areas?

Meeting Summary

- The red areas shown on the slides are a statistical representation of results, representing where the total phosphorous values exceed the provincial water quality objectives at least 10 per cent of the time. The images provide a visual of the relative size of the mixing zone for each of the options we looked at.
- Are the mixing zones considered nearshore? The understanding is there isn't much mixing between the near-shore and the centre of the lake - everything stays near-shore and goes back and forth across the shoreline.
 - All mixing zones shown are more than two kilometres away from the shoreline.
 - Post-meeting note: The diffusers for the proposed new outfall are outside the nearshore zone. Refer to slide 22 of 60 from the slide deck of the August 11, 2023 Working Conceptual Design Overview meeting with Town of Ajax. The nearshore or littoral zone is shown in green. The pelagic zone, which is further from the shore, is shown in red.
 - The MIKE3 modelling considers the wind and wave conditions for an entire year, so the behaviour of the nearshore currents is accounted for in the modelling.
- What would the further lake modelling during detailed design entail? What would it change?
 - During detailed design, there will be optimization of the outfall design, considering the benefits to the water quality and balancing capital cost to implement. Detailed design will consider optimizing the length of the outfall, length of the diffuser section, and the number/size/type of risers. These design details will influence the size of the mixing zone and impacts to nearshore to a limited degree.
 - The modelling demonstrates proof of concept for the proposed outfall configuration. The conceptual design for the 2.5 to 3-km length works well. Additional modelling during detailed design is not expected to change the RWIA results significantly.
- How will the outfall be installed?
 - The intention is to use a tunnel boring machine. The machine is lowered into a drop shaft at the shore on the Duffin Creek WPCP property. The tunnel will be deep, with as much as 15 metres of bedrock above it and have a diameter of 5 or 6 metres, similar to a subway tunnel.
 - A geotechnical investigation is performed to determine the feasibility of using the tunnel boring machine equipment.
 - The risers get installed using barges or platforms in the lake after the tunnel is constructed.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction to Ministry of Citizenship and Multiculturalism (MCM)	Tel / email address	416-866-2365 / Katrina.McCullough@ghd.com
Date / Time	Monday, July 17, 2023 1 p.m. – 2 p.m.	Project no.	12612540
Attendees	Karla Barboza, Team Lead, Heritage, MCM Dan Minkin, Heritage Planner, MCM Shu He, Manager, Engineering, York Region Jose Manalo, Project Manager, York Region Jason Morris, Environmental Specialist, York Region Tom Casher, Project Manager, GHD Katrina McCullough, Senior Stakeholder Engagement Specialist, GHD Kevin Campbell, Communications and Community Engagement Specialist, GHD Josh Dent, Project Manager and Community Relations Coordinator, TMHC	Apologies	James Hamilton, Manager, Heritage Programs, MCM
Copy to		Location	MS Teams
Objective	Project Introduction		

Meeting Summary

Action items

- GHD (Katrina McCullough) to send project information numbers (PIFs) for archaeological assessments to MCM
- MCM (Karla) to provide link to Ontario Line report and Metrolinx template

Summary of questions and comments raised during the meeting:

- Can the project team please send the project information numbers (PIFs) for the archaeological assessments so when they receive supports, they can go faster? Volume of work and timelines have changed. Looking at a minimum of 35 business days for archaeological reports when it's expedited.
- The Ontario Line project is similar, with no alternatives. Karla to provide a link to the report. MCM doesn't need a historic snapshot of each property. It's expanded on what needs to be done next on each - if you need to demolish, etc.
 - Josh: Instead of individual property recommendations, we can bundle like property recommendations together – grouped into the same row for the same recommendation.
- Karla, MCM to share a Metrolinx template on how MCM would like to receive information to help expedite MCM review. Helps with identifying mitigated properties with different levels of protection.
- Cultural Heritage Report won't be appended to the Project Report, but any impacts/mitigation will be copied into the Cultural Heritage Report.

Meeting Summary

- Please allow MCM three weeks to review.
- More and more Indigenous communities are asking to review the Cultural Heritage Report.
 - If requested, project team will discuss with York Region on releasing the report. Archaeological info is included in Project Report. Plan is to share the results in high-level form with Indigenous Nations before the Project Report is filed, but team will consider if asked.
 - Karla advises to provide/share the report.
- Karla is on vacation at the end of July. Please contact Dan directly for any questions.

Attachments:

- York Region Sewage Works Introductory Presentation

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Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with Lake Simcoe Region Conservation Authority (LSRCA)	Tel / email address	416-866-2365 / Katrina.McCullough@ghd.com
Date / Time	Monday, July 17, 2023 2:30 p.m. – 3:30 p.m.	Project no.	12612540
Attendees inc. company	Taylor Stevenson, Infrastructure Permitting, LSRCA Alison Edwards, Water Resources Engineering, LSRCA Pina Accardi, York Region Shu He, York Region Jose Manalo, York Region Jason Morris, York Region Tom Casher, GHD Katrina McCullough, GHD Kevin Campbell, GHD		
Copy to		Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Action items

- GHD (Katrina McCullough) to obtain floodplain mapping from York Region

Summary of questions and comments raised during the meeting:

- If alternatives are not being considered is there flexibility in where infrastructure is located. For example to take into consideration the flood plain?
 - Yes, general areas for the infrastructure components are proposed, but the project team will circulate the conceptual design once prepared for LSRCA's comment. Comments will be considered as part of finalizing the conceptual design and preparing the impact assessment for the Project Report.
- Is GHD obtaining flood plain mapping from York Region for the work?
 - Action: GHD will confirm and obtain floodplain mapping if this hasn't already been done
- Will stormwater management reports be prepared for the pumping stations?
 - Stormwater management reports will be prepared during detailed design.
- Confirmed that Taylor will be LSRCA's one-window contact for circulation of all material.

Attachments:

- York Region Sewage Works Introductory Presentation

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Meeting notes

External

20 July 2023

Project name	York Region Sewage Works	From	Katrina McCullough
Subject	Project Introduction with Toronto and Region Conservation Authority	Tel / email address	416-866-2365 / Katrina.McCullough@ghd.com
Date / Time	Thursday, July 20, 2023 1:00 – 2:00 p.m.	Project no.	12612540
Attendees inc. company	Rebecca Spence, TRCA Don Ford, TRCA Eric Wang, TRCA Tammy Duong, TRCA Harsimrat Pruthi, TRCA Abdul Djirdeh, TRCA Beth Williston, TRCA Suzanne Bevan, TRCA Shu He, York Region Jose Manalo, York Region Jason Morris, York Region Tom Casher, GHD Katrina McCullough, GHD Alison Springate, GHD Ray Cantwell, Jacobs Tom Mahood, Jacobs		
Copy to		Location	MS Teams
Objective	York Region Sewage Works Project Introduction		

Meeting Summary

Action items

- TRCA (Harsimrat) to connect Jacobs with Rick Portis regarding research on Cladophora and algae in Lake Ontario.
- Beth Willison and Pina Accardi (York Region) to determine whether Project falls under the York Region/TRCA service level agreement.
- Action: TRCA (Harsimrat) to connect Jacobs with appropriate staff at TRCA.

Summary of questions and comments raised during the meeting:

- Is the expansion at Duffin Creek WPCP within the same footprint that was previous envisioned, separate from the naturalized area?
 - The project team is reviewing the conceptual design to confirm this is the case.
- Don noted that changes to the outfall will have to be added to the TRSPA Assessment Report and CTC SPP as they are listed as drinking water threats.
- Has there been any active development delays because this Project has not yet been built?
 - This Project is designed to address capacity beyond 2026. York Region is working with local municipalities to ensure capacity demands are being met.
- TRCA noted the review timelines are compressed; however, appreciated the effort to seek comments and incorporate them into the report. York Region noted that they understand timelines may deviate from the Service Level Agreement (SLA) and they expect the permitting process will follow the standard SLA process.
 - Action: Beth Willison and Pina Accardi (York Region) to determine whether Project falls under the York Region/TRCA service level agreement.

Meeting Summary

- What other approvals are needed for the outfall?
 - Approvals from multiple agencies will be needed including DFO and Transport Canada.
- TRCA noted they understand the Ajax community has had concerns regarding Cladophora and have staff that the project team can contact if needed.
 - Action: TRCA (Harsimrat) to connect Jacobs with Rick Portis regarding research on Cladophora and algae in Lake Ontario.
- Jacobs noted there would be a substantial amount of rock available as a result of construction that could be used for a landform project. TRCA noted that it could potentially be used at Frenchman's Bay as there are plans for the refurbishment, a break wall, park, etc.
 - Action: TRCA (Harsimrat) to connect Jacobs with appropriate staff at TRCA.
- Is the Phosphorus offsetting project moving ahead?
 - York Region understands there is a strong desire for this to move ahead and it is included in Bill 23. The province and York Region are discussing this project outside of the York Region Sewage Works project.

Attachments:

- York Region Sewage Works Introductory Presentation

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Distribution: All Present/Absent

Meeting notes

External

9 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for LSRCA	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Wednesday, August 9, 2023 11 a.m. – 12 p.m.	Project no.	12612540
Attendees inc. company	Taylor Stevenson, Infrastructure Permitting, LSRCA Alison Edwards, Water Resources Engineering, LSRCA Erin Groves, Administration, LSRCA Shu He, York Region Susan Hansler, York Region Jose Manalo, York Region Jason Morris, York Region Tom Casher, GHD Grant Procnier, GHD Alison Springate, GHD Kevin Campbell, GHD	Apologies inc. company	Katrina McCullough, GHD Pina Accardi, York Region
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- LSRCA to provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by Aug. 25

Summary of questions and comments raised during the meeting:

- Will there be new sewers at the 2nd Concession Sewage Pumping Station (SPS) upgrade?
 - Yes and there is no changes to the building structure. There will be a gravity sewer shaft and gravity sewer going underneath the rail line and going down 2nd Concession to the Newmarket pump station.
 - There will be an interception of two existing sewers (existing forcemains converted to sewers) on 2nd Concession and there will be gravity sewers wrapping around the east and south of the site and tying into the gravity sewer. So there will be some construction at the pump station site.
- Are sewers going over the water course?
 - No new crossings of East Holland River at 2nd Concession, existing infrastructure is located within the bridge deck.
- Is 2nd Concession a part of the regulated area?
 - The ring road is and the driveway is located within the regulated area.
- Would compensation be required if removing a facility and putting in another facility?
 - Applicable regulations would apply to a structure that is replacing another structure.
- The design for the new Newmarket Pump Station is a large structure (25 by 50 metres). The building itself is smaller than the indicated space, however there are driveways and access that need to be put in. The site is a fully fenced limit. Access for the building comes in through the existing parking lot, but the road would need to be extended.

Meeting Summary

- LSRCA noted that there are no issues if there is no fill in foodplain compared to what exists today.
- The new Aurora East Pumping Station is not in an ideal location as it is in a wetland and floodplain. Would land need to be expropriated from Montessori School?
 - Yes land would be purchased from the school or from another property owner as required.
 - Half the existing site is in flood plain. There are limited options for this location. Mitigation and compensation will be considered for any wetland removal.
- The Leslie and Mulock mapping shows wetland under 0.5 hectares based on the size.
- LSRCA will review each location, provide mapping, describe if the location is wetland or floodplain and LSRCA's opinion.
- The objective is to avoid environmentally sensitive areas where possible and mitigate impacts where required.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Distribution: All Present/Absent

Meeting notes

10 August 2023

Project name	York Region Sewage Works	From	Kevin Campbell
Subject	Working Conceptual Designs for TRCA	Tel / email address	519-340-3743 / Kevin.Campbell@ghd.com
Date / Time	Thursday, August 10, 2023 2 p.m. – 3 p.m.	Project no.	12612540
Attendees inc. company	Harsimrat Pruthi, Senior Planner, TRCA Suzanne Bevan, Infrastructure Planning and Permits, TRCA Rebecca Spence, Planning Ecologist, TRCA Tammy Duong, Ecologist, TRCA Don Ford, Hydrogeology, TRCA Abdul Djirdeh, Geotechnical Engineer, TRCA Eric Wang, Water Resources, TRCA Shu He, York Region Susan Hansler, York Region Jose Manalo, York Region Jason Morris, York Region Ray Cantwell, Jacobs Tom Mahood, Jacobs Adrienne Willoughby, Jacobs Laura Guerra Reyes, Jacobs Tom Casher, GHD Alison Springate, GHD Kevin Campbell, GHD	Apologies inc. company	Katrina McCullough, GHD Beth Williston, TRCA
Copy to		Location	MS Teams
Objective	Overview of Working Conceptual Designs		

Meeting Summary

Action items:

- TRCA to please provide comments on working conceptual designs to Katrina McCullough (Katrina.McCullough@ghd.com) and/or Jose Manalo (Jose.Manalo@york.ca) by Aug. 25

Summary of questions and comments raised during the meeting:

- Will there be any change to the outfall itself?
 - Eventually, a new outfall will be required to handle all the flows at the plant.
- TRCA will need to add this new outfall to our Assessment Report and Source Protection Plan.
- Further discussions will be required on modelling and what was previously modelled on assessment reports for drinking water intakes. The existing outfall is a significant drinking water threat as previously modelled. Toronto did similar work for their new outfall at Ashbridges.
 - Jacobs has reached out to the City of Toronto to request intake concentration data from the R.C. Harris Water Treatment Plant.

Meeting Summary

- Don provided two reports on **Source Water Protection – Collaborative Study to Protect Lake Ontario Drinking Water and Spill Scenario Modelling for Lake Ontario Intakes**
- Any crossings underneath water courses have to be two metres minimum from the pipes to the bottom of the water courses.
 - The sewer is going to be much deeper than water courses. There are advantages to putting the sewers as low as possible. Some shafts will be approximately 40 metres deep. The lower the sewer is constructed, the less the long-term pumping requirements are.
- Is this the extent of the alignment being looked at? Will there be any more?
 - This is the major area of work. No other alignments are being considered.
 - The project team is not anticipating any other sections.
- Dewatering work will need to be considered. The original 16th Avenue trunk sewer construction was a challenge.
 - The project team is aware of and considering the issues during construction of the 16th Avenue trunk sewer. Since that project, there has been many lessons for construction along major corridors. The geotechnical investigation will assess how to manage groundwater, where to discharge, and construction methodologies. The project team is considering the Oak Ridges Moraine.

Attachments:

- York Region Sewage Works Working Conceptual Designs Presentation

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Appendix G

**York Region Council Reports and Durham
Region Council Reports**

The Regional Municipality of York

Committee of the Whole
Environmental Services
March 9, 2023

Report of the Commissioner of Public Works

Supporting Growth and Housing in York and Durham Regions Act, 2022 **Update**

1. Recommendation

Council receive this report for information.

2. Summary

This report summarizes ongoing and future work to implement the requirements outlined in the *Supporting Growth and Housing in York and Durham Regions Act, 2022 (Act)* (formerly Bill 23, Schedule 10) which was passed on November 28, 2022. An update on interim infrastructure projects and the Holland Landing Lagoons wastewater treatment facility is also provided.

Key Points:

- The new *Act* requires York and Durham Regions to work together to expand the existing York Durham Sewage System (YDSS), including the Duffin Creek Plant to service growth in the Towns of Aurora, East Gwillimbury, and Newmarket
- Leading up to the *Act* becoming legal, the Region provided significant feedback including recommendations to optimize the legislation, and accommodate realistic routing for construction, cost and schedule management. None of these suggestions were accepted and Bill 23 remained unchanged
- An infrastructure plan will need to accommodate growth impacts as a result of the *Act*
- The *Act* refers to the infrastructure plan as the York Region Sewage Works Project (the Project) and requires preparation of a report for submission to the Minister of the Environment Conservation and Parks (the Minister). Staff are targeting completion of the report later in 2023 (exact date to be determined by the Minister)
- In December 2022, the Minister wrote the Public Works Commissioner, requiring submission of a report on the Yonge Street sewer twinning component by January 31, 2023, with a final report on engineering and other details pertaining to sewer implementation along the Yonge street alignment in February 2023

- In response to the Minister’s correspondence regarding details of the Yonge Street twinning component, Regional staff and engineers provided a comprehensive submission recommending a more easterly modified Yonge Street corridor including Leslie Street which aligns with existing wastewater infrastructure. Constructing the infrastructure in this modified Yonge Street corridor offers several distinct advantages, including being a cost-effective and expedient approach to deliver this critical component of the York Region Sewage Works Project
- Consultation with Indigenous communities will begin in 2023, which requires preparation and submission of a consultation report to the Minister
- Staff will be working with the Province of Ontario (the Province) over the first half of 2023 to further define infrastructure needs for the Project and preliminary cost estimates for the 2024 budget
- Council approval will be required at a later date for additional resource needs and engineering consulting requirements

3. Background

November 2022, Bill 23, Schedule 10 was passed, requiring a Lake Ontario solution for wastewater services in Aurora, East Gwillimbury and Newmarket

Bill 23 was passed on November 28, 2022, making changes to nine statutes, and introducing the new *Supporting Growth and Housing in York and Durham Regions Act, 2022* (the *Act*), which mandates wastewater servicing for the Upper York area. The *Act* is omnibus legislation intended to streamline approvals and build more affordable housing across the Greater Golden Horseshoe, with the provincial goal of 1.5 million new homes. Revised housing projections are contemplated to advance housing targets for select municipalities including the Town of Newmarket, and Cities of Markham, Richmond Hill and Vaughan, as reported to Council in [December 2022](#). In addition, the Province released lands from the Greenbelt that have no servicing plans to meet the Province’s expected timelines. Combined, these changes will require new water and wastewater servicing infrastructure.

The *Act* mandates the Region to pivot from the Upper York Sewage Solution Environmental Assessment recommended Lake Simcoe watershed solution to a Lake Ontario solution. This involves conveyance and treatment of wastewater at the Duffin Creek Plant in Durham Region for wastewater services in the Towns of Aurora, East Gwillimbury and Newmarket. York and Durham Regions will work in partnership to enlarge and improve the existing YDSS to convey sewage to the Duffin Creek Plant in Durham Region for treatment and discharge to Lake Ontario. The new YDSS components will become the “York Region sewer works project”.

Bill 23 does not incorporate feedback from the Region and contemplates a twinned sewer in the Yonge Street corridor

Despite a comprehensive review by the Region on Bill 23 Schedule 10 and significant feedback given to the Province to improve Bill 23 in terms of realistic construction routing, proper costing and schedule, the Province advanced Bill 23 with no changes. One example is the Yonge Street sewer through Richmond Hill from Bloomington to 19th Avenue. The Province is focussing on implementation of a twinned sewer in this section of the Yonge Street corridor. Regional staff are recommending a modified Yonge Street route including a portion of Leslie Street, which offers cost and schedule savings along with other social and environmental benefits.

York and Durham Regions are working with provincial staff to develop project components for the *Act*

The Province based the *Act* on a final report submitted by the York Region Wastewater Advisory Panel established by the Province through Bill 5, *York Region Wastewater Act, 2021*. The Panel considered four different servicing options for the Upper York Service area (Towns of Aurora, East Gwillimbury and Newmarket) and provided advice to the Minister on a recommended solution along the Yonge Street corridor. Staff performed a review of the York Region Wastewater Advisory Panel's report and noted the servicing recommendation and cost estimates were strictly conceptual and based on initial information provided by the Region without confirmatory field studies and detailed engineering.

York and Durham Regions are now working with the Province to develop a more realistic list of infrastructure needs to form the Project. These project components will be developed over the coming months and preliminary cost estimates will be prepared for the 2024 budget. Viable infrastructure solutions require considerable work on expedited timelines prior to design and construction.

Staff have been meeting regularly since 2022 with Ministry staff to understand the project requirements outlined in the legislation. York and Durham Regions are required to submit a single project report outlining the necessary work, costing, approvals, and mitigation measures for project impacts. It also requires Indigenous community consultation be completed before construction and submission of a consultation report. The specific date of submission has not been determined but is anticipated for later this year. Approval of the project report by the Minister will permit implementation to proceed. Through discussions, staff are gaining an understanding of the level of detail and effort to complete the report and work is already underway.

4. Analysis

Preliminary infrastructure needs list has been prepared and submitted to the Province to begin defining the Project

Since Bill 23 became law, staff have been working with the Province and Durham Region to define project components. A preliminary view of the project components is provided in Appendix 1. This map indicates the extensive infrastructure components required that will comprise the overall project in York and Durham Regions. These infrastructure components will be included in the project report to the Minister. The wastewater infrastructure required will involve modifications to the Primary System within Durham Region, including the Duffin Creek Plant/Outfall. Similar to Master Plan efforts, project components identify additional pumping stations, sewers, forcemains and Duffin Creek Plant expansion. Preliminary routing will be proposed after additional hydraulic modelling and corridor assessment to permit sizing and location refinements based on revised population forecasts resulting from Bill 23.

Indigenous community consultation will begin early 2023

The *Act* explicitly details project consultation requirements with Indigenous communities. Consultation is supported by reporting requirements. Discussions with each Indigenous community, to be identified by the Minister, must include:

- a) Contents of the project report
- b) Any constitutionally protected aboriginal or treaty rights that may be adversely impacted by the Project
- c) Any potential adverse impacts of the Project on constitutionally protected aboriginal or treaty rights
- d) Measures that may avoid or mitigate potential adverse impacts on constitutionally protected aboriginal or treaty rights, including any measures identified by the Indigenous community

Outreach will begin shortly after the Minister provides the list of identified Indigenous communities and will occur in coordination with preparation of the project report. The Region proposed to the Province that they would lead their Duty to Consult process with support from the Region on project details given the Province's recommendations and direction on the overall project. To date the Province has not agreed to this approach.

Interim infrastructure solutions to provide servicing capacity to support growth are progressing in the Towns of Aurora, East Gwillimbury and Newmarket

On [June 28, 2018](#), Council authorized two interim infrastructure solutions to provide water and wastewater servicing capacity for a population of 11,500 persons to support growth in the Towns of Aurora, East Gwillimbury and Newmarket, out of which 10,500 persons were assigned allocation, subject to completion of these trigger capital projects. An additional capacity of 1,000 persons is reserved for centres and corridors in these three municipalities

to be released once the capacity provided by the interim solutions is confirmed. Both interim infrastructure projects were awarded funding under one agreement with Infrastructure Canada through the Disaster Mitigation and Adaptation Fund:

- Upgrades to the Region's Aurora Sewage Pumping Station project were completed in 2021, unlocking 7,000 people in capacity
- Construction of the Henderson Sewage Pumping Station commenced in summer 2021 and commissioning is expected in Q3 2023. This will unlock 4,500 people in capacity

Holland Landing Lagoons wastewater treatment facility remains in service to address treatment needs within the Upper York service area

The Holland Landing Lagoons facility was connected with the Upper York Sewage Solutions Environmental Assessment. The Ministry had directed the facility remain in active service until the Upper York Water Reclamation Centre was commissioned and Environmental Compliance Approval for the facility could be transferred to the new plant. The facility could then be decommissioned. With cancellation of the Upper York Environmental Assessment and project, the Province provided no direction with respect to the Holland Landing Lagoons.

The lagoons are still in service and provide treatment for approximately 4,000 people in the York Durham Sewage System. Decommissioning this facility in advance of implementing the Southern Alternative will create a loss of servicing capacity for 4,000 people. With the current protracted gap in servicing capacity in the Upper York service area, any proposed initiatives involving decommissioning this facility would further exacerbate the capacity short falls. As part of the next capacity assignment update, staff will present scenarios to Council for consideration on the future of the Holland Landing Lagoons facility.

Future water servicing use will reflect compliance with the Great Lakes -St Lawrence River Basin Sustainable Water Resources Agreement

The Great Lakes-St. Lawrence River Basin Sustainable Water Resources Agreement among Ontario, Quebec and the Great Lakes States governs any new transfers of water between Great Lakes watersheds. York Region spans two Great Lakes basins. In designing and implementing Regional water and wastewater infrastructure involving the two watersheds, consideration must be given to adherence with this Agreement.

In 2010, York Region was granted approval under a predecessor agreement for an intra-basin transfer of up to 105 million litres of water a day from Lake Ontario watershed to Lake Simcoe/Lake Huron watershed, with return flow of wastewater to the Lake Ontario watershed. This approval remains in effect.

With the new provincial direction to direct wastewater from growth in the Towns of Aurora, East Gwillimbury and Newmarket to Lake Ontario through the YDSS via the Duffin Creek Plant, staff will develop a servicing strategy relying on Lake Ontario sourced drinking water to remain compliant with its intra-basin transfer approval.

5. Financial

With the most recent direction from the Province, a new dedicated conveyance system will be required to convey wastewater from the Upper York area to Lake Ontario through the YDSS via the Duffin Creek Plant. The new system will require trunk sewers and pumping stations presenting few opportunities to phase design and construction.

The 2023 Capital Plan budget was based on the 2022 Water and Wastewater Master Plan which phased expansions of the Water Reclamation Centre over a 30-year period to 2051. With this new direction from the Province, funding will need to be advanced into one single phase for constructing conveyance infrastructure and potentially other components of the York Region Sewage Works Project over a shorter period.

Costs for this sewage works project will be higher than the \$433 million budgeted in the 2023 10-year Capital plan for Phase 1 of the Upper York Project. Based on the new provincial approach for servicing the Upper York area, new resources, contracts and mechanisms will be required to deliver this accelerated infrastructure program. A future report will be brought to Council to expedite retention of resourcing needs to deliver this new project effectively.

6. Local Impact

Servicing growth in the Towns of Aurora, East Gwillimbury and Newmarket remains a priority for York Region. Staff continue to work with the Province and Durham Region to advance the Project and deliver the required infrastructure for wastewater and water servicing. York Region will be in communication with local Councils and municipal staff as projects are further defined and the costs and schedules for servicing are better understood.

7. Conclusion

This report provides a summary to Council on the ongoing and future work to implement the requirements outlined in the *Supporting Growth and Housing in York and Durham Regions Act, 2022*.

Staff continue to review the *Act* with the Province and Durham Region. A preliminary list of project components has been developed and will be refined for submission of the project report later this year. Indigenous community engagement will begin in 2023 and staff anticipate future reporting to review cost impacts and resourcing needs for the Project.

For more information on this report, please contact Mike Rabeau, Director, Capital Delivery at 1-877-464-9675 ext. 75157. Accessible formats or communication supports are available upon request.

Recommended by: **Laura McDowell, P.Eng**
General Manager, Interim Transition - Environmental

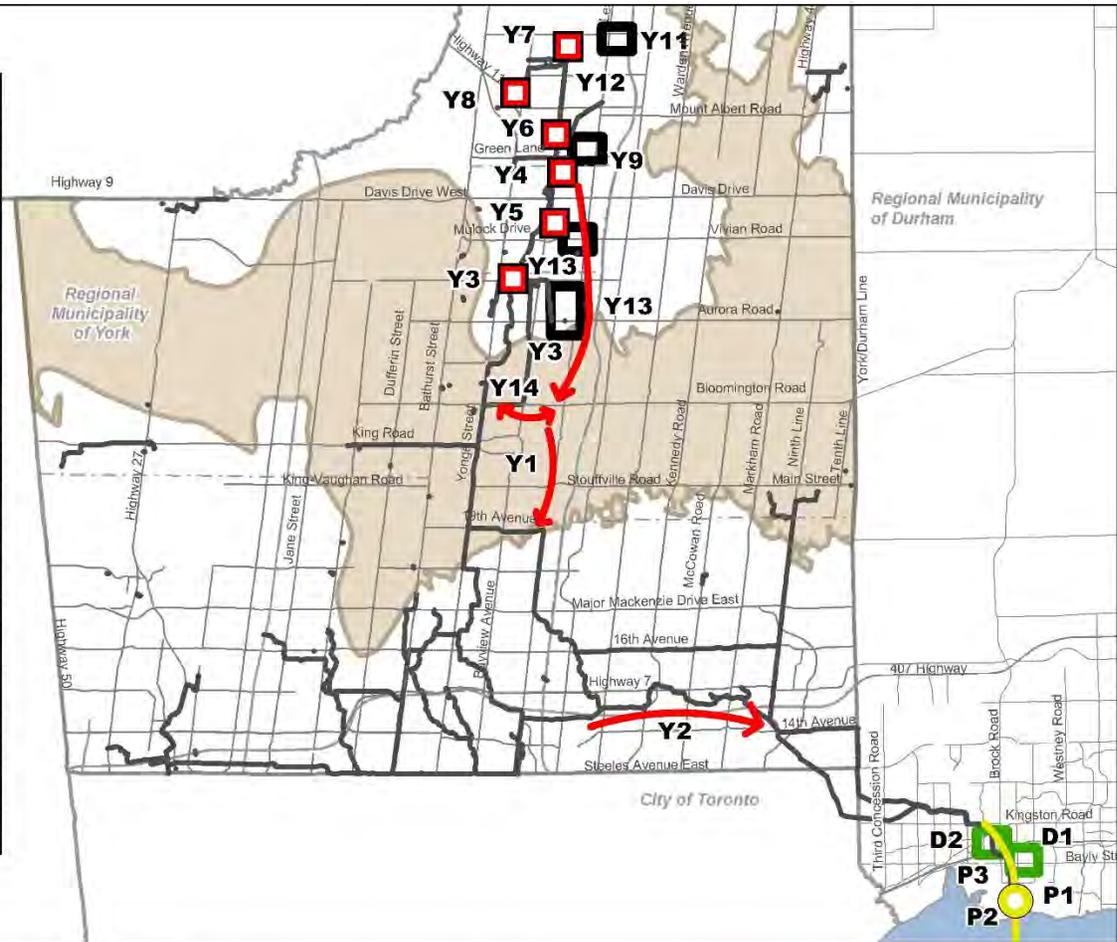
Erin Mahoney, M. Eng.
Commissioner of Public Works

Approved for Submission: **Bruce Macgregor**
Chief Administrative Officer

February 24, 2023
14708871

Appendix 1 – Map – York Region Sewage Works Project Infrastructure Components List

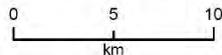
ID	List of Wastewater Infrastructure to be Confirmed by Technical Analysis
P1	Duffin Creek Water Pollution Control Plant Expansion inc. Phase 4
P2	Twinning of the Duffin Creek Water Pollution Control Plant Outfall
P3	Twinning of the existing Primary Sanitary Trunk Sewer from the Duffin Creek Water Pollution Control Plant to the intersection of Valley Farm Road and Finch Avenue
D1	Pickering Parkway Sanitary Sewage Pumping Station
D2	Squires Beach Road Sanitary Sewage Pumping Station
Y1	Twinning of the existing Richmond Hill Collector (also referred to as Yonge Street Sewer)
Y2	Twinning of the existing Markham Collector
Y3	Expansion of existing Aurora Sewage Pumping Station including new Sewage Pumping Station B and forcemains
Y4	Expansion of existing Newmarket Sewage Pumping Station
Y5	Expansion of Bogart Creek Sewage Pumping Station
Y6	Expansion of existing Second Concession Sewage Pumping Station
Y7	Expansion of existing Queensville West Sewage Pumping Station
Y8	Expansion of existing Holland Landing Sewage Pumping Station
Y9	New Sewage Pumping Station C and Forcemains to service Holland Landing, Sharon and Queensville
Y10	New Linear works to optimize expansion of existing YDSS sewage pumping stations (i.e., Aurora, Newmarket, Bogart Creek, Second Concession, Queensville West and Holland Landing). Not shown on the map, subject to further study
Y11	New Queensville Sewage Pumping Station and Forceman
Y12	New linear works to service Holland Landing, Sharon and Queensville. Not shown on the map, subject to further study
Y13	New Linear works between Newmarket sewage pumping station and New Sewage Pumping Station A New Sewage Pumping Station A New Linear works between New Sewage Pumping Station A and Bloomington road
Y14	New Linear works along Bloomington Road to connect new infrastructure with existing and new Richmond Hill Collectors (also referred as Yonge St. Sewer)
Y15	New Linear works to connect existing Aurora Sewage Pumping Station and New Sewage Pumping Station B. Not shown on the map, subject to further study



York Region Sewage Works Project Infrastructure Components List

Bill 23, Schedule 10 Supporting Growth and Housing in York and Durham Regions Act, 2022 Update

March 9, 2023



Produced by:
Infrastructure Asset Management,
Public Works Department
The Regional Municipality of York
The Regional Municipality of Durham
February 2023
Data: © King's Printer for Ontario 2003-2023

- New Pumping Station and Forceman Vicinity (York)
- New Pumping Station Vicinity (Durham)
- Wastewater Treatment Plant Expansion (York and Durham)
- Pumping Station Expansion Including Forceman (York)
- Proposed Trunk Sewer and Forceman (York)
- Proposed Trunk Sewer and Outfall (York and Durham)
- Existing York Trunk Sewer
- ORM Boundary



The Regional Municipality of Durham

COUNCIL INFORMATION PACKAGE

June 29, 2023

Information Reports

[2023-INFO-58](#) Acting Commissioner of Works – re: York Region Sewage Works Project

[2023-INFO-59](#) Chief Administrative Officer – re: Annual Report – Empowering the Community, Durham’s Nuclear Sector Strategy 2022-2032

Early Release Reports

There are no Early Release Reports

Staff Correspondence

There is no Staff Correspondence

Durham Municipalities Correspondence

There are no Durham Municipalities Correspondence

Other Municipalities Correspondence/Resolutions

1. [Oxford County](#) – re: Resolution passed at their Council meeting held on June 14, 2023, regarding updating Municipal Codes of Conduct
2. [Township of The Archipelago](#) – re: Resolution passed at their Council meeting held on June 16, 2023, in support of Tay Valley Township's Resolution Requesting the Reinstatement of Legislation Permitting a Municipality to Retain Surplus Proceeds from Tax Sales
3. [Norfolk County](#) – re: Resolution passed at their Council meeting held on June 20, 2023, requesting the Ontario Government to amend s.205.1 of the Highway Traffic Act to permit municipalities to locate an ASE system on any roadway under the jurisdiction of the municipality

4. [Northumberland County](#) – re: Resolution passed at their Council meeting held on June 21, 2023, in support of the correspondence received from various municipalities regarding Bill 5 – Stopping Harassment and Abuse by Local Leaders Act, 2022

Miscellaneous Correspondence

There are no Miscellaneous Correspondence

Advisory / Other Committee Minutes

There are no Advisory / Other Committee Minutes

Members of Council – Please advise the Regional Clerk at clerks@durham.ca, if you wish to pull an item from this CIP and include on the next regular agenda of the appropriate Standing Committee. Items will be added to the agenda if the Regional Clerk is advised by Wednesday noon the week prior to the meeting, otherwise the item will be included on the agenda for the next regularly scheduled meeting of the applicable Committee.

Notice regarding collection, use and disclosure of personal information:

Written information (either paper or electronic) that you send to Durham Regional Council or Committees, including home address, phone numbers and email addresses, will become part of the public record. If you have any questions about the collection of information, please contact the Regional Clerk/Director of Legislative Services.

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



The Regional Municipality of Durham Report

From: Acting Commissioner of Works
Report: [#2023-INFO-58](#)
Date: June 29, 2023

Subject:

York Region Sewage Works Project

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 The purpose of this report is to inform Committee and Council members on the initiation of and the progress of the York Region Sewage Works Project.

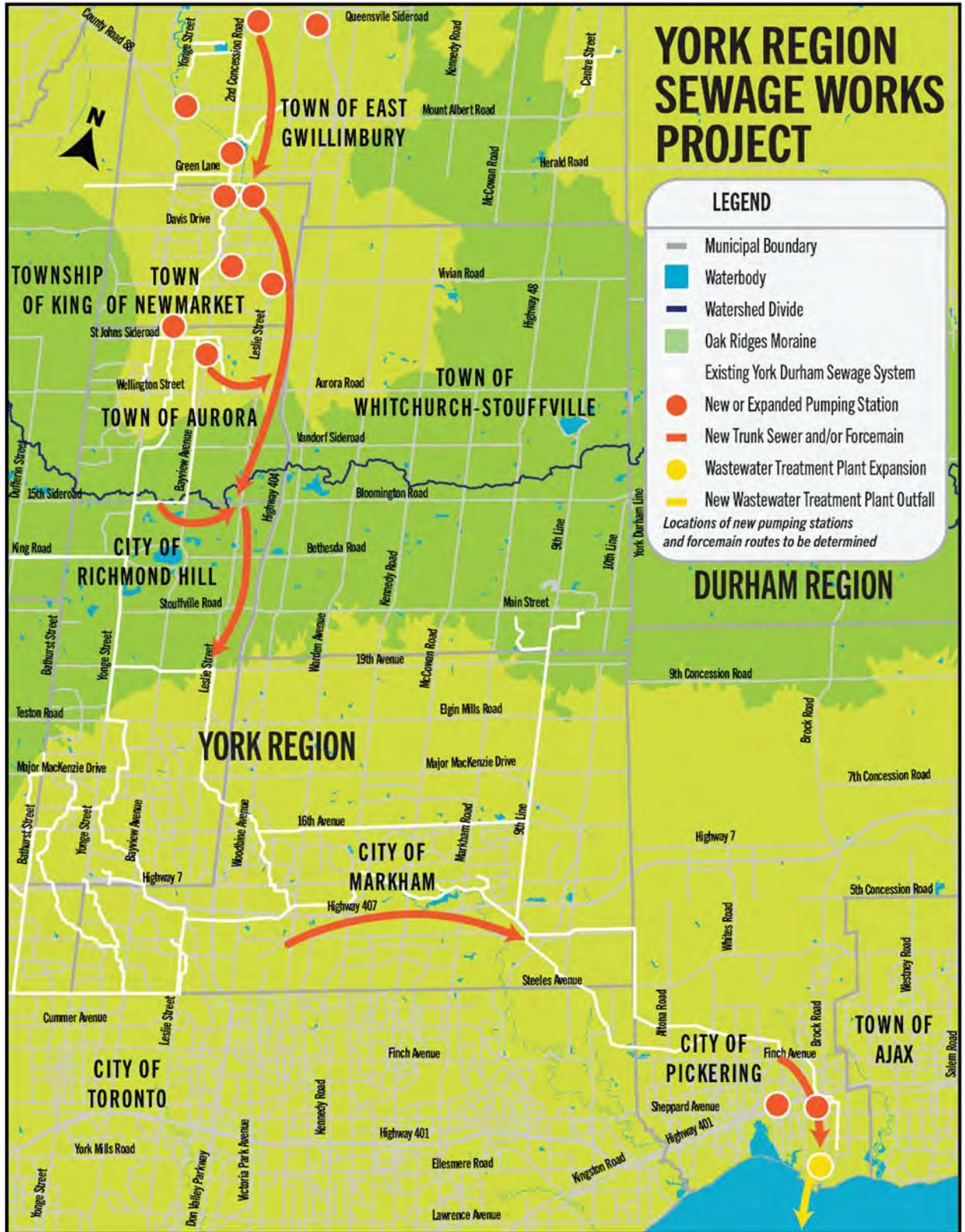
2. Background

2.1 On November 28, 2022, the Province of Ontario passed Bill 23, *the More Homes Built Faster Act* (Bill 23), making changes to nine statutes, revoking various regulations, and introducing Schedule 10 of Bill 23, *the new Supporting Growth and Housing in York and Durham Regions Act, 2022* (the Act). The Act mandates expediting wastewater servicing for the Upper York area and allows for growth in York that impacts Durham. Bill 23 is intended to streamline approvals and build more affordable housing across the Greater Golden Horseshoe, with the provincial goal of 1.5 million new homes over the next ten (10) years.

2.2 These changes will require new water and wastewater servicing infrastructure. The Act mandates that York Region change from the Upper York Sewage

Solution Environmental Assessment recommended Lake Simcoe watershed solution to work with Durham Region to develop a Lake Ontario solution. This solution involves the conveyance and treatment of wastewater at the Duffin Creek Water Pollution Control Plant (WPCP) in Durham Region and discharge to Lake Ontario for wastewater servicing in the Upper York Watershed. York and Durham Regions will work in partnership to enlarge and improve the existing York Durham Sewage System (YDSS).

- 2.3 Some of the key points and obligations related to Bill 23, Schedule 10 are summarized as follows:
- a. York Region and Durham Region shall work together to develop, construct and operate the York Region Sewage Works Project.
 - b. The York Region Sewage Works Project is exempt from the Environmental Assessment Act. A Class Environmental Assessment will not be required for the works proposed by the York Region Sewage Works Project.
 - c. A Report will be prepared that details the work required, the cost of the work, approvals required for the work, impacts to the environment and mitigation of those impacts.
 - d. The Report will be made available to Indigenous Communities, Agencies, and the Public for review and consultation.
 - e. Following the consultation noted above, two separate Consultation Reports will be prepared and submitted to the Province; one with respect to Consultation with Indigenous Communities and the other with respect to other interested parties.
- 2.4 The project components as listed and shown in Figure below, will become the “York Region Sewage Works Project”.



- a. Durham's component of the project will include:
- Duffin Creek Water Pollution Control Plant (WPCP) Stage 4 Expansion
 - Twinning of the Duffin Creek Water Pollution Control Plant (WPCP) Outfall
 - Twinning of the existing Primary Sanitary Trunk Sewer from the Duffin Creek Water Pollution Control Plant to the intersection of Valley Farm Road and Finch Avenue
 - Two new sanitary sewage pumping stations in the City of Pickering namely, Pickering Parkway Sanitary Sewage Pumping Station (SSPS) and Squires Beach Road SSPS
- b. York's component of the project will include:
- Twinning of the existing Richmond Hill Collector (also referred to as Yonge Street Sewer)
 - Twinning of the Markham Collector
 - Expansion of the existing Aurora Sewage Pumping Station including a new sewage pumping station and forcemains
 - Expansion of Newmarket Sewage Pumping Station
 - Expansion of Bogart Creek Sewage Pumping Station
 - Expansion of existing Second Concession Sewage Pumping Station
 - Expansion of existing Queensville West Sewage Pumping Station
 - Expansion of Holland Landing Sewage Pumping Station
 - New sewage pumping station, forcemains and linear work to service Queensville, Holland Landing and Sharon
 - New linear works to optimize the expansion of the existing York-Durham Sanitary Sewer (YDSS) sewage pumping stations (i.e., Aurora, Newmarket, Bogart Creek, Second Concession, Queensville West and Holland Landing)
 - New linear work along Bloomington Road to connect new infrastructure with existing and new Richmond Hill collectors.

3. Previous Reports and Decisions

- 3.1 Report #2022-COW-33 provided a summary of the implications on the Region of Durham of Bill 23 summarizing the anticipated impacts of Bill 23 on the Region, and to Region of Durham taxpayers and ratepayers.
- 3.2 Report #2021-INFO-93 provided an overview of the *More Homes Built Faster Act 2022* (Bill 23) including its impacts on the Region, staff-level feedback to the province and key messaging reflecting staff-level positions on the Bill.
- 3.3 Report #2021-COW-28 provided a summary on Council's preferred alternative to the Upper York Sewage Solution as an advanced treatment system in the Lake Simcoe watershed within the Regional Municipality of York.

4. Update on Project Activity

- 4.1 The Region of York has hired the Consultant GHD to lead the preparation of the Report for the York Region Sewage Works Project.
- 4.2 The Region of York has also hired the Consultant Jacobs to complete the portion of the works that are located within Durham Region including the Twinning of the Existing Primary Sanitary Trunk Sewer, Stage 4 Expansion at Duffin Creek WPCP including the Twinning of the Outfall Pipe, and the two new Sanitary Sewage Pumping Stations in the City of Pickering.
- 4.3 The Consultant (Jacobs) has initiated the review of the background information available to plan for desktop and field investigations needed to support the preliminary and detailed design of the project, by revisiting previously proposed alternative alignments for the primary trunk sanitary sewer and the required linear infrastructure and SSPS locations, and the overall sanitary system upgrades requirements to meet the Regions needs for the planning period.
- 4.4 Region of Durham staff are involved in the technical aspects of the project and all meetings related to the parts of the project that will be within Durham Region.
- 4.5 The Region of York has sent letters to the Indigenous Communities listed below to introduce the York Region Sewage Works Project. A copy of the email and letter addressed to Tom Turoczi of Mississaugas of Scugog Island First Nation (consultation@scugogfirstnation.com) is attached to this report for reference.
 - a. Williams Treaties First Nations:
 - Curve Lake First Nation

- Alderville First Nation
 - Mississaugas of Scugog Island First Nation
 - Hiawatha First Nation
 - Rama First Nation
 - Chippewas of Georgina Island First Nation
 - Beausoleil First Nation
- b. Mississaugas of the Credit First Nation
- c. Kawartha Nishnawbe
- d. Huron Wendat
- 4.6 The Region of York has sent letters to the City of Pickering and the Town of Ajax to introduce the York Region Sewage Works Project. A copy of the emails and letters addressed to the City of Pickering and the Town of Ajax are attached to this report for reference.
- 4.7 The Region of York has also initiated communication and engagement activities with the public, stakeholders, MECP/agency, utility, landowner, and Indigenous communities.
- 4.8 Future Council Information Reports will be prepared to provide updates on this project as it moves forward.
- 5. Relationship to Strategic Plan**
- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Service Excellence:
- Goal 5.1 – Optimize resources and partnerships to deliver exceptional quality service and value
 - Goal 5.3 – Demonstrate commitment to continuous quality improvement and communicating results.

6. Conclusion

- 6.1 A copy of this information report will be shared with the Durham Region local area municipal Councils.
- 6.2 For additional information, contact: Mike Hubble, Director, Environmental Services, at 905-668-7711, extension 3460.

7. Attachments

- Attachment #1: Email and letter to the Mississaugas of Scugog Island First Nation
- Attachment #2: Email and letter to the City of Pickering
- Attachment #3: Email and letter to the Town of Ajax

Respectfully submitted,

Original signed by:

Ramesh Jagannathan
MBA, M. Eng., P. Eng., PTOE
Acting Commissioner of Works

Patricia Casco

From: Rabeau, Mike <Mike.Rabeau@york.ca>
Sent: May 19, 2023 5:29 PM
To: consultation@scugogfirstnation.com
Cc: Mahoney, Erin; John Presta; He, Shu; Aaron Christie
Subject: York Region Sewage Works Project Introduction
Attachments: Tom Turoczi - Mississaugas of Scugog Island First Nation.pdf

Good afternoon,

I hope this email finds you well. On behalf of The Regional Municipality of York, I am introducing the York Region Sewage Works Project. As required through the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, this is a long-term wastewater infrastructure project involving wastewater pumping, conveyance and treatment infrastructure in the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering. More information on the project is included in the attached letter.

Respectfully, York Region welcomes your Nation's participation in this project and the opportunity to begin dialogue with an introductory meeting in the coming weeks.

We would greatly appreciate if you will provide us with a priority contact for ongoing updates, communication and information. Our project team, copied, will be in touch to arrange the introductory meeting and discuss how the engagement process can reflect your Nation's values.

We appreciate your consideration of this request. I look forward to hearing from you.

Kind regards,

Our working hours may be different. Please don't feel obliged to respond outside of your scheduled working hours

Mike Rabeau (he/him) | General Manager, Infrastructure Services | Public Works

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1

📞: 1-877-464-9675 ext. 75157 | mike.rabeau@york.ca | www.york.ca

Administrative Assistant: Lisa Zusko ext. 75516 | lisa.zusko@york.ca

Attachment #1 to Report #2023-INFO-58

May 19, 2023

klarocca@scugogfirstnation.com

Kelly LaRocca
Chief
Mississaugas of Scugog Island First Nation
22521 Island Road
Port Perry, ON L9L 1B6

Attention: Kelly LaRocca, Chief

Dear Kelly LaRocca:

Re: York Region Sewage Works Project Introduction

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project and respectfully extend our commitment to opening an ongoing dialogue with Mississaugas of Scugog Island First Nation regarding this project and its potential impacts.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region across the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

York Region and Durham Region are committed to building respectful and transparent relationships with First Nations and Indigenous communities. We recognize as the first Peoples on this land, First Nations and Indigenous peoples have a significant role in infrastructure planning and implementation. We are committed to working with you from the earliest stages of this process to reflect Indigenous rights, interests and input throughout planning and implementation of the project.

As part of the York Region Sewage Works Project, the Regions will prepare a Project Report to document potential impacts to the environment, including to Indigenous rights and measures to avoid or mitigate these potential impacts.

Attachment #1 to Report #2023-INFO-58

We would like to discuss how the engagement process is reflective of Indigenous values, including identification of potential impacts and management measures.

To this end, we welcome the opportunity to begin this dialogue with an introductory meeting in the coming weeks at your most convenient location.

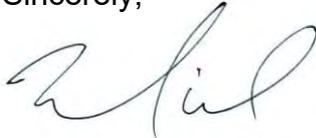
Your participation and input in the development of the Project Report is important to the success of the project as it will ensure plans accurately reflect impacts and other considerations of importance to your community. We recognize some of the potential impacts identified may require ongoing discussion and we want to assure you this is only the beginning of a meaningful dialogue as it pertains to this project.

York Region is planning to initiate Project Report work in June 2023 with a completion goal by October 2023, meeting timelines stipulated by the Ontario government. In addition to your participation in informing the development of the Project Report, we will share regular progress updates with your community as the report is completed.

As we are committed to maintaining a transparent dialogue through the project, we would also greatly appreciate if you could provide us with a contact person for ongoing updates, communication and information.

We appreciate your consideration of this request and look forward to hearing from you.

Sincerely,



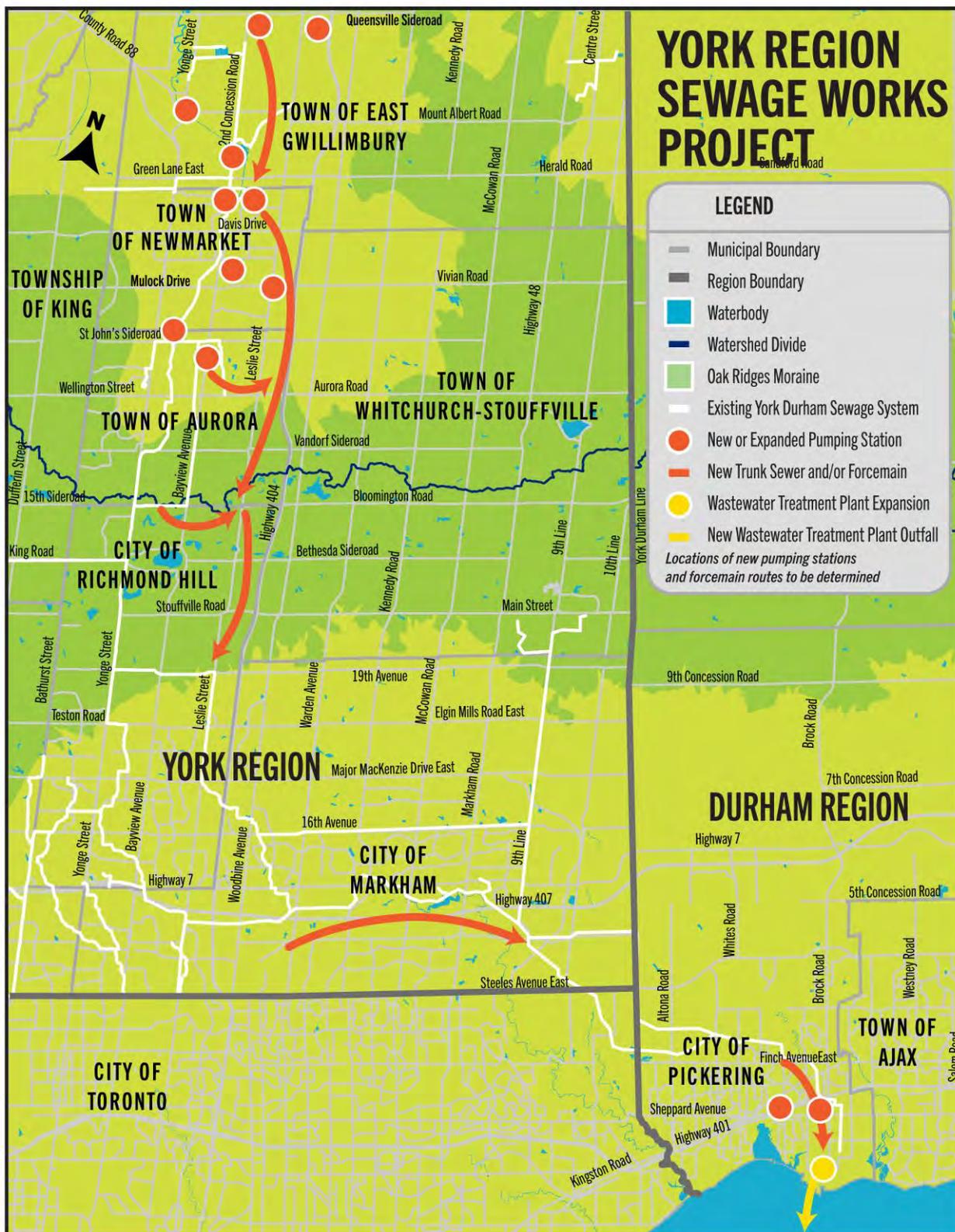
Mike Rabeau, P.Eng.
General Manager, Infrastructure Services
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

Attachment (1): Map - York Region Sewer Works Project

cc: Erin Mahoney, Commissioner of Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
John Presta, Commissioner of Public Works, Durham Region
Aaron Christie, Manager, Engineering Planning & Studies, Works, Durham Region

YORK-# 15202943

Attachment #1 to Report #2023-INFO-58



Attachment #1 to Report #2023-INFO-58

May 19, 2023

consultation@scugogfirstnation.com

Tom Turoczi
Consultation Specialist
Mississaugas of Scugog Island First Nation
22521 Island Road
Port Perry, ON. L9L 1B6

Attention: Tom Turoczi, Consultation Specialist

Dear Tom Turoczi:

Re: York Region Sewage Works Project Introduction

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project and respectfully extend our commitment to opening an ongoing dialogue with Mississaugas of Scugog Island First Nation regarding this project and its potential impacts.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region across the Towns of East Gwillimbury, Newmarket and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

York Region and Durham Region are committed to building respectful and transparent relationships with First Nations and Indigenous communities. We recognize as the first Peoples on this land, First Nations and Indigenous peoples have a significant role in infrastructure planning and implementation. We are committed to working with you from the earliest stages of this process to reflect Indigenous rights, interests and input throughout planning and implementation of the project.

As part of the York Region Sewage Works Project, the Regions will prepare a Project Report to document potential impacts to the environment, including to Indigenous rights and measures to avoid or mitigate these potential impacts.

Attachment #1 to Report #2023-INFO-58

We would like to discuss how the engagement process is reflective of Indigenous values, including identification of potential impacts and management measures.

To this end, we welcome the opportunity to begin this dialogue with an introductory meeting in the coming weeks at your most convenient location.

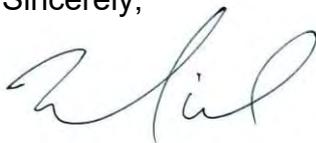
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York Region is planning to initiate Project Report work in June 2023 with a completion goal by October 2023, meeting timelines stipulated by the Ontario government. In addition to your participation in informing the development of the Project Report, we will share regular progress updates with your community as the report is completed.

As we are committed to maintaining a transparent dialogue through the project, we would also greatly appreciate if you could provide us with a contact person for ongoing updates, communication and information.

We appreciate your consideration of this request and look forward to hearing from you.

Sincerely,

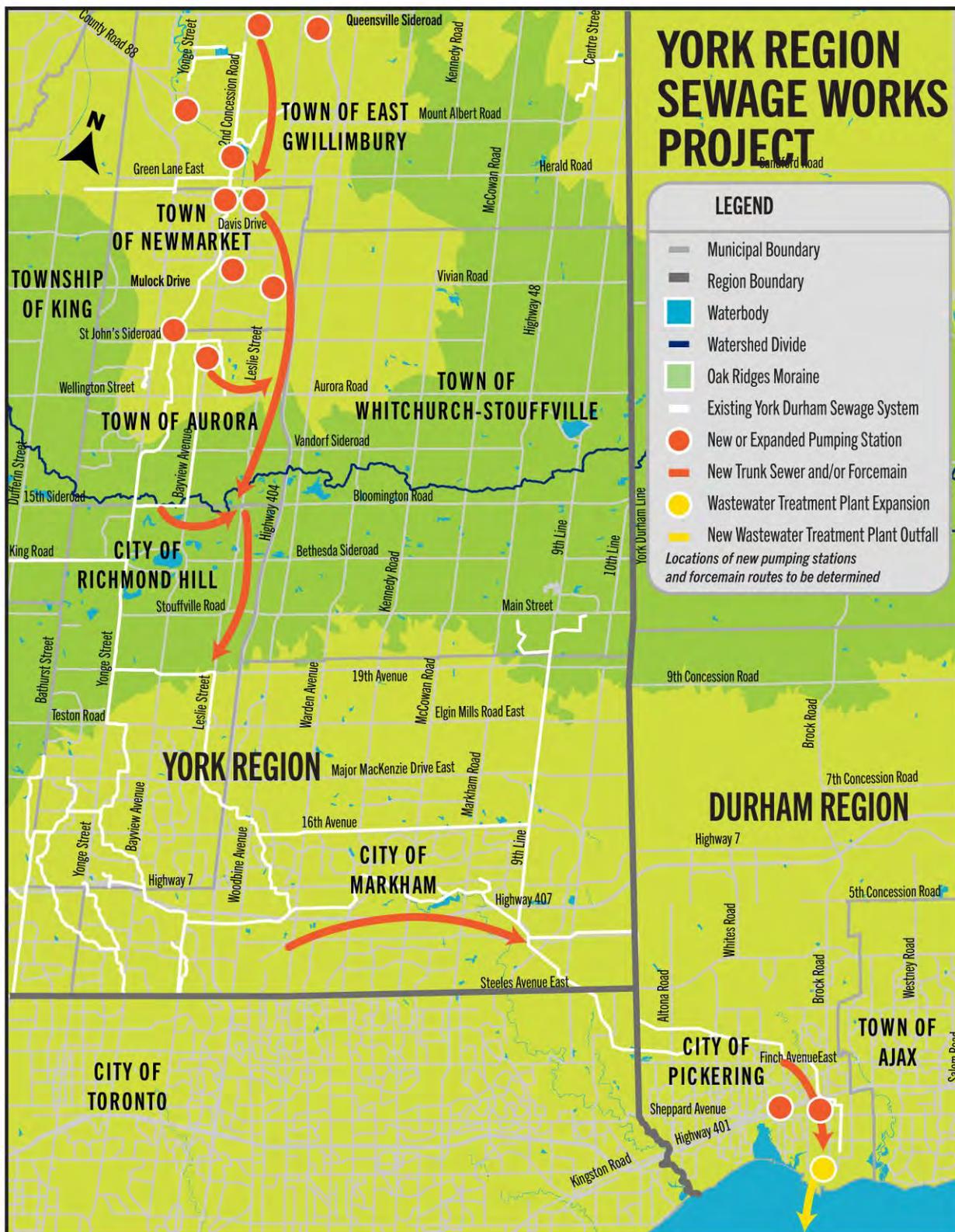


Mike Rabeau, P.Eng.
General Manager, Infrastructure Services
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

Attachment (1): Map - York Region Sewer Works Project

cc: Erin Mahoney, Commissioner of Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
John Presta, Commissioner of Public Works, Durham Region
Aaron Christie, Manager, Engineering Planning & Studies, Works, Durham Region

YORK-# 15202943



Patricia Casco

From: Rabeau, Mike <Mike.Rabeau@york.ca>
Sent: June 2, 2023 2:21 PM
To: Holborn, Richard
Cc: Mahoney, Erin; John Presta; Accardi, Pina; He, Shu; Aaron Christie; Katrina McCullough
Subject: York Region Sewage Works Project Introduction
Attachments: City of Pickering -York Region Sewage Works Projects (007).pdf

Good afternoon,

I hope this email finds you well. On behalf of The Regional Municipality of York, I would like to introduce the York Region Sewage Works Project.

As required through the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, the York Region Sewage Works Project is a long-term wastewater infrastructure project involving wastewater pumping, conveyance and treatment in the Towns of East Gwillimbury, Newmarket, Aurora and Ajax and the Cities of Richmond Hill, Markham and Pickering. More information on the project is included in the attached letter.

We would like to discuss how your municipality will be consulted in the coming months as the Project Report is developed. Please contact me **by Thursday, June 15** to arrange for a meeting.

We appreciate your consideration of this request and look forward to hearing from you.

Kind regards,

Our working hours may be different. Please don't feel obliged to respond outside of your scheduled working hours

Mike Rabeau (he/him) | General Manager, Capital Infrastructure Services | Public Works

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1

O: 1-877-464-9675 ext. 75157 | mike.rabeau@york.ca | www.york.ca

Administrative Assistant: Lisa Zusko ext. 75516 | lisa.zusko@york.ca



June 1, 2023

rholborn@pickering.ca

Richard Holborn
Director of Engineering Services
City of Pickering
One The Esplanade
Pickering, Ontario L1V 6K7

Attention: Richard Holborn, Director of Engineering Services, City of Pickering

Dear Richard Holborn:

Re: York Region Sewage Works Project

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project and request participation of the City of Pickering in this project.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

As required by the *Act*, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts. To meet timelines stipulated by the Ontario government, this Project Report will be prepared in the coming months and submitted to the Minister of Environment, Conservation and Parks by **October 2023** for approval. A copy of the Project Report will be shared with local municipalities upon completion. The Minister's approval does not impact other federal, provincial or municipal approvals that may be required for individual project components, including Environmental Compliance Approvals.

Attachment #2 to Report #2023-INFO-58

We would like to request a meeting with the City of Pickering by **Monday, June 15, 2023**, to discuss the project and how your staff will be consulted in the coming months as the Project Report is being prepared.

We appreciate your consideration of this request and look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Rabeau', written in a cursive style.

Mike Rabeau, P.Eng.
General Manager, Capital Infrastructure Services, Public Works
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

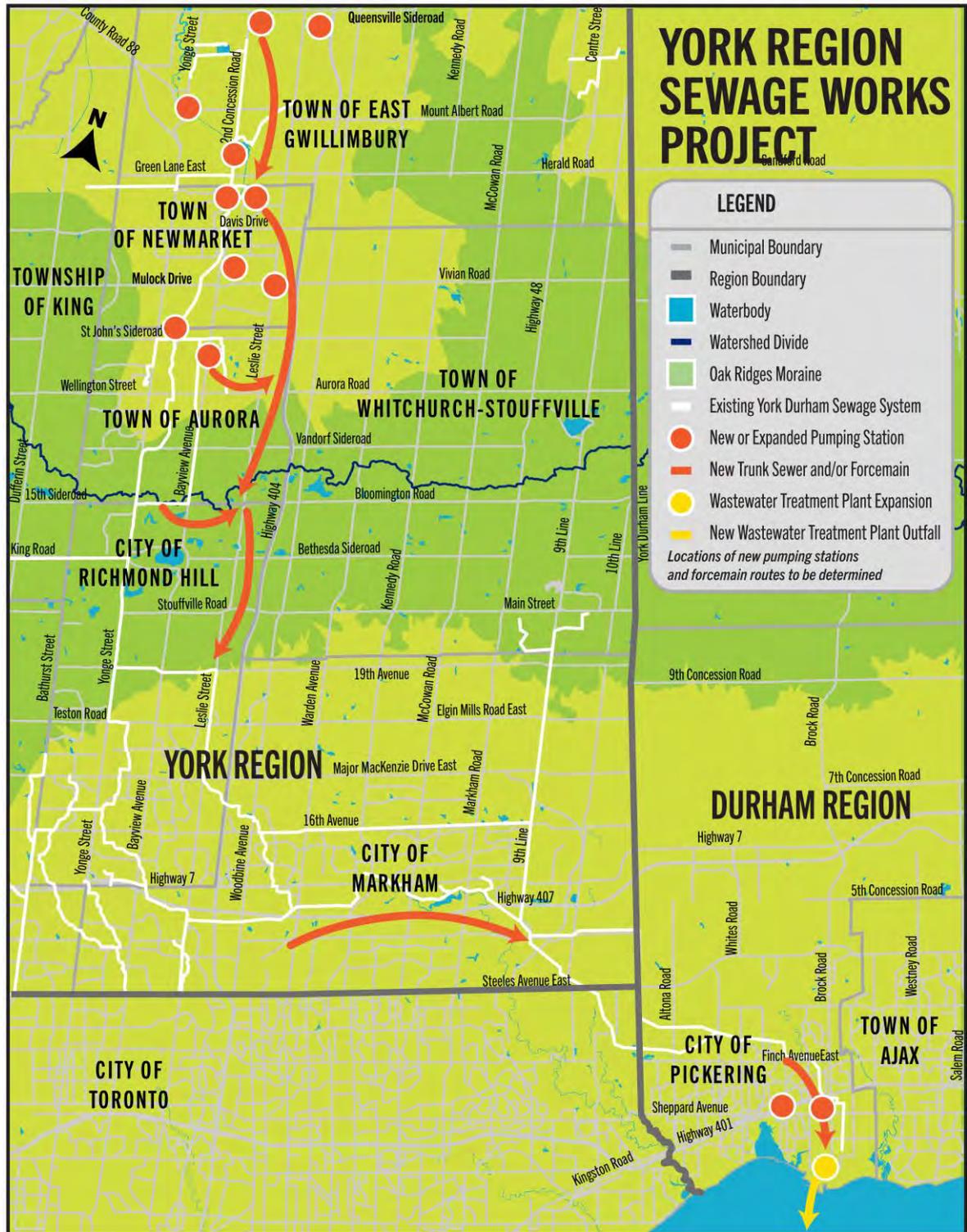
SH/jm

Attachment (1): Map - York Region Sewer Works Project

cc: Erin Mahoney, Commissioner of Public Works, York Region
John Presta, Commissioner of Public Works, Durham Region
Pina Accardi, Director (A), Capital Delivery - Water and Wastewater, Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Katrina McCullough, GHD Inc.

eDocs- #15251604

Attachment #2 to Report #2023-INFO-58



Patricia Casco

From: Rabeau, Mike <Mike.Rabeau@york.ca>
Sent: June 2, 2023 2:23 PM
To: Geoff Romanowski
Cc: Mahoney, Erin; John Presta; Accardi, Pina; He, Shu; Aaron Christie; Katrina McCullough
Subject: York Region Sewage Works Project Introduction
Attachments: Town of Ajax -York Region Sewage Works Projects (7).pdf

Good afternoon,

I hope this email finds you well. On behalf of The Regional Municipality of York, I would like to introduce the York Region Sewage Works Project.

As required through the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, the York Region Sewage Works Project is a long-term wastewater infrastructure project involving wastewater pumping, conveyance and treatment in the Towns of East Gwillimbury, Newmarket, Aurora and Ajax and the Cities of Richmond Hill, Markham and Pickering. More information on the project is included in the attached letter.

We would like to discuss how your municipality will be consulted in the coming months as the Project Report is developed. Please contact me **by Thursday, June 15** to arrange for a meeting.

We appreciate your consideration of this request and look forward to hearing from you.

Kind regards,

Our working hours may be different. Please don't feel obliged to respond outside of your scheduled working hours

Mike Rabeau (he/him) | General Manager, Capital Infrastructure Services | Public Works

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1

O: 1-877-464-9675 ext. 75157 | mike.rabeau@york.ca | www.york.ca

Administrative Assistant: Lisa Zusko ext. 75516 | lisa.zusko@york.ca

Attachment #3 to Report #2023-INFO-58

June 1, 2023

geoff.romanowski@ajax.ca

Geoff Romanowski
Director of Planning & Development Services
Town of Ajax
65 Harwood Ave. S.
Ajax, Ontario L1S 2H9

Attention: Geoff Romanowski, Director of Planning & Development Services, Town of Ajax

Dear Geoff Romanowski:

Re: York Region Sewage Works Project

On behalf of The Regional Municipality of York, we would like to introduce the York Region Sewage Works Project and request participation of the Town of Ajax in this project.

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The *Act* requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The *Act* mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region (see attached map).

As required by the *Act*, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts. To meet timelines stipulated by the Ontario government, this Project Report will be prepared in the coming months and submitted to the Minister of Environment, Conservation and Parks by **October 2023** for approval. A copy of the Project Report will be shared with local municipalities upon completion. The Minister's approval does not impact other federal, provincial or municipal approvals that may be required for individual project components, including Environmental Compliance Approvals.

Attachment #3 to Report #2023-INFO-58

We would like to request a meeting with the Town of Ajax by **Monday, June 15, 2023**, to discuss the project and how your staff will be consulted in the coming months as the Project Report is being prepared.

We appreciate your consideration of this request and look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Rabeau', written in a cursive style.

Mike Rabeau, P.Eng.
General Manager, Capital Infrastructure Services, Public Works
Phone: 1-877-464-9675 ext. 75157
Email: mike.rabeau@york.ca

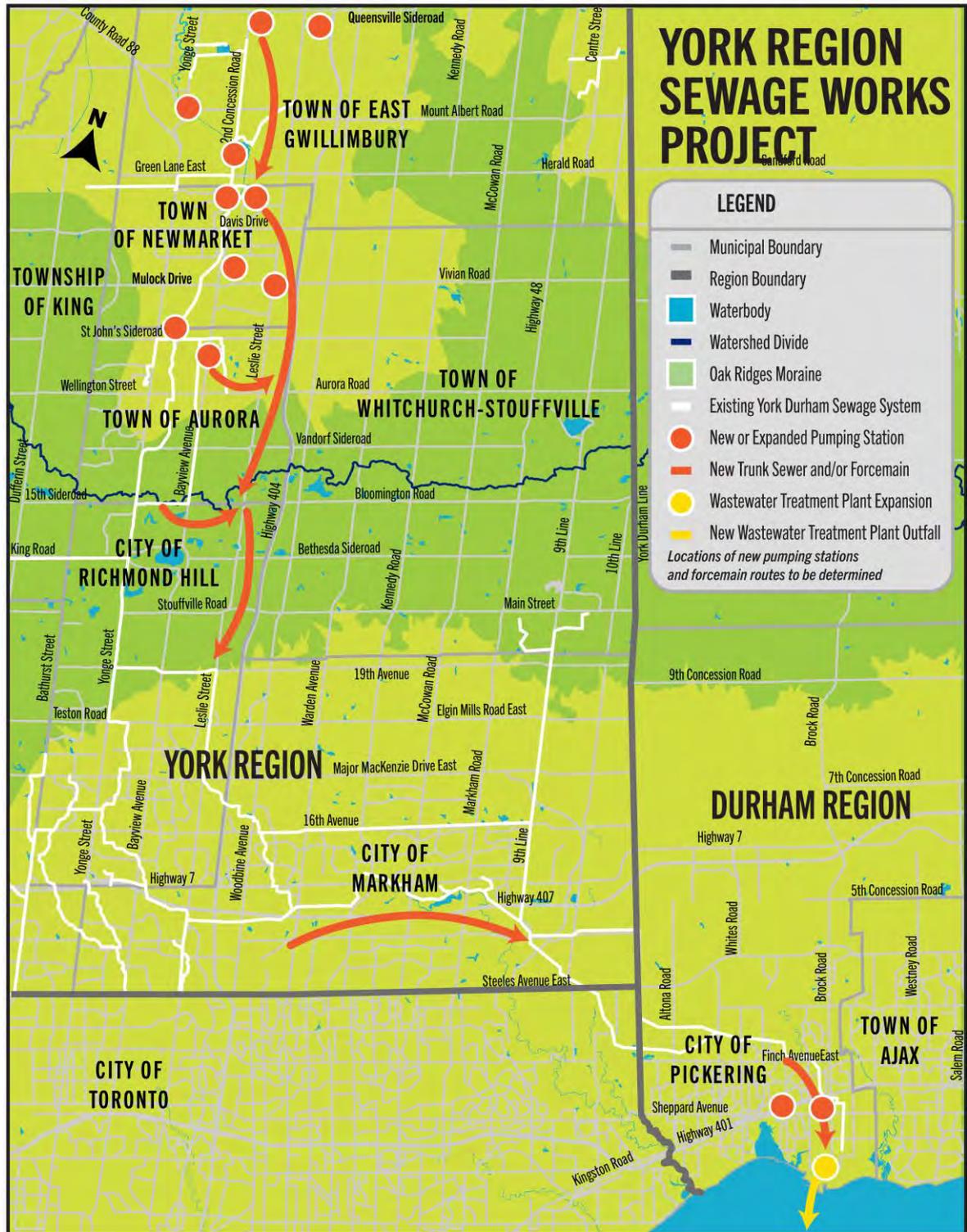
SH/jm

Attachment (1): Map - York Region Sewer Works Project

cc: Erin Mahoney, Commissioner of Public Works, York Region
John Presta, Commissioner of Public Works, Durham Region
Pina Accardi, Director (A), Capital Delivery - Water and Wastewater, Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Katrina McCullough, GHD Inc.

eDocs- #15251604

Attachment #3 to Report #2023-INFO-58



Appendix H

Written correspondence



357-2023-745

April 25, 2023

Erin Mahoney
Commissioner, Environmental Services
Regional Municipality of York
Email: erin.mahoney@york.ca

John Presta
Commissioner of Works
Regional Municipality of Durham
Email: john.presta@durham.ca

Dear Erin Mahoney and John Presta:

I am writing to provide you with a list of Indigenous communities that have or may have Aboriginal or treaty rights that may be adversely impacted by the York Region sewage works project (the "Project"), in accordance with subsection 5 (4) of the *Supporting Growth and Housing in York and Durham Regions Act, 2022* (the Act).

The Government of Ontario (the Crown) has a constitutional duty to consult and, where appropriate, accommodate Indigenous communities when it contemplates conduct that might adversely affect established or credibly asserted Aboriginal or treaty rights as recognized and affirmed under section 35 of the *Constitution Act, 1982* ("s. 35 rights"). Although the Crown remains responsible for ensuring the adequacy of consultation with communities to whom the duty to consult is owed, it may delegate procedural aspects of consultation to project proponents. As such, I am providing the list of Indigenous Communities with whom York and Durham Regions are required to consult with in accordance with s. 5 of the Act.

York and Durham Regions are required to consult the following communities under section 5 of the Act:

- Williams Treaties First Nations:
 - Curve Lake First Nation
 - Alderville First Nation
 - Mississaugas of Scugog Island First Nation
 - Hiawatha First Nation
 - Rama First Nation
 - Chippewas of Georgina Island First Nation
 - Beausoleil First Nation

Note: it is common practice to copy Karry Sandy Mackenzie, coordinator Williams Treaties First Nations, on correspondence to the above communities.

- Mississaugas of the Credit First Nation
- Kawartha Nishnawbe

- Huron-Wendat, to be notified if there are likely to be impacts to archaeological resources

Please be aware that this list may be subject to change as new information becomes available and/or there are changes to the scope of the Project.

Consultation with the Indigenous communities listed above and interested persons is required to begin no later than 30 days from the date of this letter.

Consultation must include discussions with each of the listed communities in respect of the contents of the report required by section 4 of the Act, any Aboriginal or treaty rights that may be adversely impacted by the project, any potential adverse impacts of the project on Aboriginal or treaty rights; and measures that may avoid or mitigate potential adverse impacts on Aboriginal or treaty rights, including any measures identified by the community.

I am also requesting that the ministry be notified if during the course of the above discussions York or Durham becomes aware of new information about additional Indigenous communities or treaty rights that may be adversely impacted by the Project or if the required consultations are delayed or stalled.

You are advised to initiate contact through the elected Chief and Council of each Indigenous community, with the exception of Kawartha Nishnawbe [please contact nodin.webb@hotmail.com; samgharvey@live.com; giiwednang@hotmail.com; kawarthanishnawbecouncil@outlook.com] and Huron-Wendat [please contact Grand Chief Rémy Vincent]. Please let the ministry know if you require any other contact information for any of the communities listed above.

York and Durham Regions are also required to maintain an accurate and up to date record of consultation for each individual community, that contains all related communications including letters/emails/phone calls (outgoing & incoming), public notices, meetings (agendas, meeting minutes), issues raised and how they have been addressed, evidence of follow up responses, and documentation of any follow up responses or comments from the communities. This information will be a vital component for the Crown's consideration prior to making required decisions about your applications

Should you or any members of your project team have any questions regarding the above, please contact Tom North at tom.north@ontario.ca.

We appreciate York and Durham Region's continued commitment to working effectively and collaboratively to implement the York Region Sewage Works Project and other projects to support growth in the Regions.

Sincerely,



David Piccini
Minister of the Environment, Conservation and Parks

**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Tel.: 416-660-1027

**Ministère des Affaires civiques
et du Multiculturalisme**

Unité de la planification relative au
patrimoine
Direction du patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
Tél.: 416-660-1027



July 10, 2023

EMAIL ONLY

Mike Rabeau, P.Eng.
General Manager, Capital Infrastructure Services, Public Works
York Region
Email mike.rabeau@york.ca

MCM File : **0019662**
Proponent : **York Region**
Subject : ***Supporting Growth and Housing in York and Durham Regions Act, 2022***
Project : **York Region Sewage Works Project**
Location : **Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering, York Region and Durham Region**

Dear Mike Rabeau:

Thank you for your letter dated June 13 informing about the commencement of the above-referenced project to the Ministry of Citizenship and Multiculturalism (MCM).

MCM's interest in this project relates to its mandate of conserving Ontario's cultural heritage, which includes:

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

Project Summary

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The Act requires York Region and Durham Region to work together to carry out the York Region Sewage Works Project. The Act mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also

known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region.

As required by the Act, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts.

MCM Comments

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

Archaeological Resources

This Project may impact archaeological resources and should be screened using the Ministry's [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological Potential](#) to determine if an archaeological assessment is needed. If archaeological assessments have been initiated, please send us the Project Information Form numbers.

Built Heritage Resources and Cultural Heritage Landscapes

This Project may impact known or potential built heritage resources and/or cultural heritage landscapes. A Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment will be undertaken for the entire study area during the planning phase and should be summarized in the Project 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. The Ministry has developed screening criteria that may assist with this exercise: [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#).
2. Identify preliminary potential project-specific impacts on the known and potential built heritage resources and cultural heritage landscapes that have been identified. The report should include a description of the anticipated impact to each known or potential built heritage resource or cultural heritage landscape that has been identified.
3. Recommend measures to avoid or mitigate potential negative impacts to known or potential built heritage resources and cultural heritage landscapes. The proposed mitigation measures are to inform the next steps of project planning and design.

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

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

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

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage

resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to them.

Environmental Assessment Reporting

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into the Project Report.

Please note that the responsibility for administration of the *Ontario Heritage Act* and matters related to cultural heritage have been transferred from the Ministry of Tourism, Culture and Sport (MTCS) to the Ministry of Citizenship and Multiculturalism (MCM). Individual staff roles and contact information remain unchanged. Please continue to send any notices, report and/or documentation via email to Dan Minkin and myself.

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

Sincerely,

Karla Barboza
Team Lead, Heritage
karla.barboza@ontario.ca

Copied to: Pina Accardi, Director (A), Capital Delivery - Water and Wastewater, Public Works, York Region
Shu He, Manager, Engineering, Public Works, York Region
Aaron Christie, Engineering Planning and Studies, Durham Region
Tom Casher, Project Manager, GHD
Katrina McCullough, GHD
Ray Cantwell, Project Manager, Jacobs
Dan Minkin, Heritage Planner, MCM

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. The Ministry of Citizenship and Multiculturalism (MCM) 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 MCM 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.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

Katrina McCullough

From: Taylor Stevenson <T.Stevenson@lsrca.on.ca>
Sent: Monday, August 21, 2023 9:52 AM
To: Kevin Campbell
Cc: Tom Casher; Zhu, Shu; Katrina McCullough
Subject: LSRCA Comments - York Region Sewage Works
Attachments: YR Significant Woodland (STA 7+900).pdf; LSRCA Reg Area STA 9+700.pdf; LSRCA Reg Area STA 11+800.pdf; LSRCA Reg Area STA 12+600.pdf; LSRCA Reg Area STA 15+000.pdf; LSRCA Reg Area Aurora SPS Y3-B.pdf; LSRCA Reg Area Aurora SPS STA 0+300.pdf; LSRCA Reg Area STA 0+900.pdf; LSRCA Reg Area Newmarket East SPS.pdf; LSRCA Reg Area STA 0+300 Y9-B Newmarket East Forcemain.pdf; LSRCA Regulated Area - Proposed Compound at Gas Station NE corner of Green Lane and Leslie St.pdf; LSRCA Reg Area Y11-B Queensville East SPS Forcemain – Plan and Profile (STA. 0+000 TO 1+800).pdf; LSRCA Regulated Area - Y12-B EG Trunk SWR STA 0+000 To 2+089.pdf; LSRCA Regulated Area - Y13-A Leslie St Phase 3 (STA 0+800).pdf

Good morning:

Thank you for circulating our office as part of the York Region Sewage Works Project Report. Please see LSRCA comments below:

This project areas are regulated by the LSRCA under Ontario Regulation 179/06 made pursuant to the Conservation Authorities Act (CA Act). The areas include the following features/hazards:

Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 6+100 TO 9+100)

- All compounds appear to be outside the regulated area.
- The compound at STA 7+900 is located within a York Region Significant Woodland (map attached).

Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 9+100 TO 12+100)

- The LSRCA Regulated Area appears to be missing from the plan.
- The compound at STA 9+700 is partially regulated for lands adjacent to a Provincially Significant Wetland (within 120 m) and partially within the York Region Significant Woodland (map attached).
- The compound at STA 11+800 is regulated for wetland, meanderbelt, and is immediately adjacent to Marsh Creek which is missing from your plans (map attached). This is a hazardous area, and we would not recommend putting the compound in this location unless you can remain a safe distance from the creek and avoid the wetland. The area is also Significant Woodland.

Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 12+100 TO 14+100)

- The LSRCA Regulated Area appears to be missing from the plan.
- The compound at STA 12+600 is partially regulated for floodplain, meanderbelt, and is immediately adjacent to Weslie Creek, which is missing from your plans. This is a hazardous area, and we would not recommend putting the compound in this location unless you can remain outside both flooding and erosion hazards (map attached).
- The compound at STA 14+700 is not regulated.
- The compound at STA 15+000 is regulated for floodplain and meanderbelt associated with Bogart Creek (missing from your plans), and wetland (map attached). This is a hazardous area, and we would not recommend putting the compound in this location.

Aurora SPS B – Y3-B SITE PLAN

- The Potential Property Acquisition and Y3-B SPS is regulated for wetland and floodplain and should be avoided as a potential site for a SPS if there are alternate locations.
- The Potential Property Acquisition at 0+200 is regulated for floodplain and should be avoided if there are areas on the existing 242 St. Johns Sdrd that are outside the floodplain. If there are no alternate locations, then the SPS will need to be floodproofed from regional flood events.

- The compound at STA 0+300 is regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. This location should also be avoided if possible. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill).

Y3-C Aurora B SPS (STA 1+800 TO 3+424)

- The compound at STA 3+424 is only partially regulated for lands adjacent to wetland, but we have no concerns from a hazard perspective (please see map LSRCA Reg Area STA 12+600).
- The compound north of St Johns Sdrd is regulated for apparently valleyland, floodplain and meanderbelt associated with Weslie Creek. The compound also appears to go right over top of the creek. This location should also be avoided if possible. If there are no alternate locations, then a proper setback from the creek is required as well as ensuring the compound is outside the floodplain hazard.

Y9-A Newmarket East SPS Site Plan

- The New East Gwillimbury SPS proposed site is regulated for wetland and floodplain and should be avoided as a potential site for a SPS if there are alternate locations or options (e.g. expand existing Newmarket SPS outside the floodplain as discussed in our previous meeting).
- The compound with MH S5 west of the River is partially within floodplain, meanderbelt associated with East Holland River, and wetland. If possible, please locate this compound outside the hazards (map attached).
- The compound with MH S4 east of the River is entirely within floodplain, meanderbelt associated with East Holland River, and wetland. If possible, please locate this compound outside the hazards (map attached). It is also York Region Significant Woodland. If possible, please locate outside the meanderbelt and woodland. As previously mentioned, when there are no alternate locations outside the floodplain, then flood mitigation measures are required (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc).

Y9-B Newmarket East SPS Forcemain (STA. 0+000 TO 2+186)

- The compound at 0+300 MH S4 east of the River is entirely within floodplain and meanderbelt associated with East Holland River. If possible, please locate this compound outside the hazards (map attached). It is also York Region Significant Woodland. As previously mentioned, when there are no alternate locations outside the floodplain, then flood mitigation measures are required (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc).
- The compound at the north east corner of Green Lane and Leslie St is partially within floodplain. If possible, please locate this compound outside the hazard (map attached).

Y10 Aurora SPS Gravity SWR Twinning Plan and Profile (STA 0+000 TO 0+879)

- The LSRCA Regulated Area is missing from the plan.
- The compound in between STA 0+100 and 0+200 and the compound at 0+300 are regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc).

Y11-B Queensville East SPS Forcemain – Plan and Profile (STA. 0+000 TO 1+800)

- The compound at STA 0+000 is regulated for meanderbelt and wetland. If possible, please locate the compound a safe distance from the watercourse and outside the wetland (map attached).

Y12-B East Gwillimbury Trunk SWR (STA 0+000 TO 2+089)

- The large compound northeast of the existing SPS is regulated for floodplain and meanderbelt associated with the East Holland River (map attached). This is a hazardous area, and we would not recommend putting the compound in this location. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc). This area is also YR Significant Woodland.

- The compound at 2+000 is regulated for lands adjacent to wetland. Please avoid the wetland (map attached).

Y13-A Leslie Street Trunk SWR Phase 3 (STA. 0+000 to 2+600)

- The compound at 0+800 is partially regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc).

Y13-B Mulock SPS Alternative Location Site Plan

- The Primary Site Location and compound is entirely regulated for floodplain, meanderbelt, and is immediately adjacent to Weslie Creek, which is missing from your plans. This is a hazardous area, and we would not recommend putting the Mulock SPS in this location.
- The Alternative Site Location is not regulated by the LSRCA and would be a more ideal location from a natural hazard perspective.

The LSRCA provides the following suggestions to avoid or mitigate impacts associated with the proposed development:

- Existing drainage and conveyance be maintained and or improved with no change to upstream or downstream flows to avoid impacts to control of flooding and erosion.
- No increase in velocities that result in increased erosion.
- Quantity control/peak flow controls be applied to avoid impacting erosion and floodplains in accordance with LSRCA Stormwater Management Guidelines (on LSRCA website).
- Any fill placement in the floodplain be avoided or compensated for with an incremental cut.
- Maintain existing grades within the regulated area.
- Any fill placement in the floodplain be avoided or minimized with a compensating incremental cut.
- Any watercourse crossings are to be done via trenchless technology.
- Proper erosion and sediment control measures be undertaken to prevent sediment migration and impact to watercourses.
- Any interference with wetlands be avoided or supported with a supporting Environmental Impact Study.

Regards,

Taylor Stevenson, B.A., CAN-CISEC

Coordinator, Infrastructure Permitting

Lake Simcoe Region Conservation Authority

120 Bayview Parkway,

Newmarket, Ontario L3Y 3W3

Office: 905-895-1281, ext. 483 | 1-800-465-0437

Cell: 905-955-1954

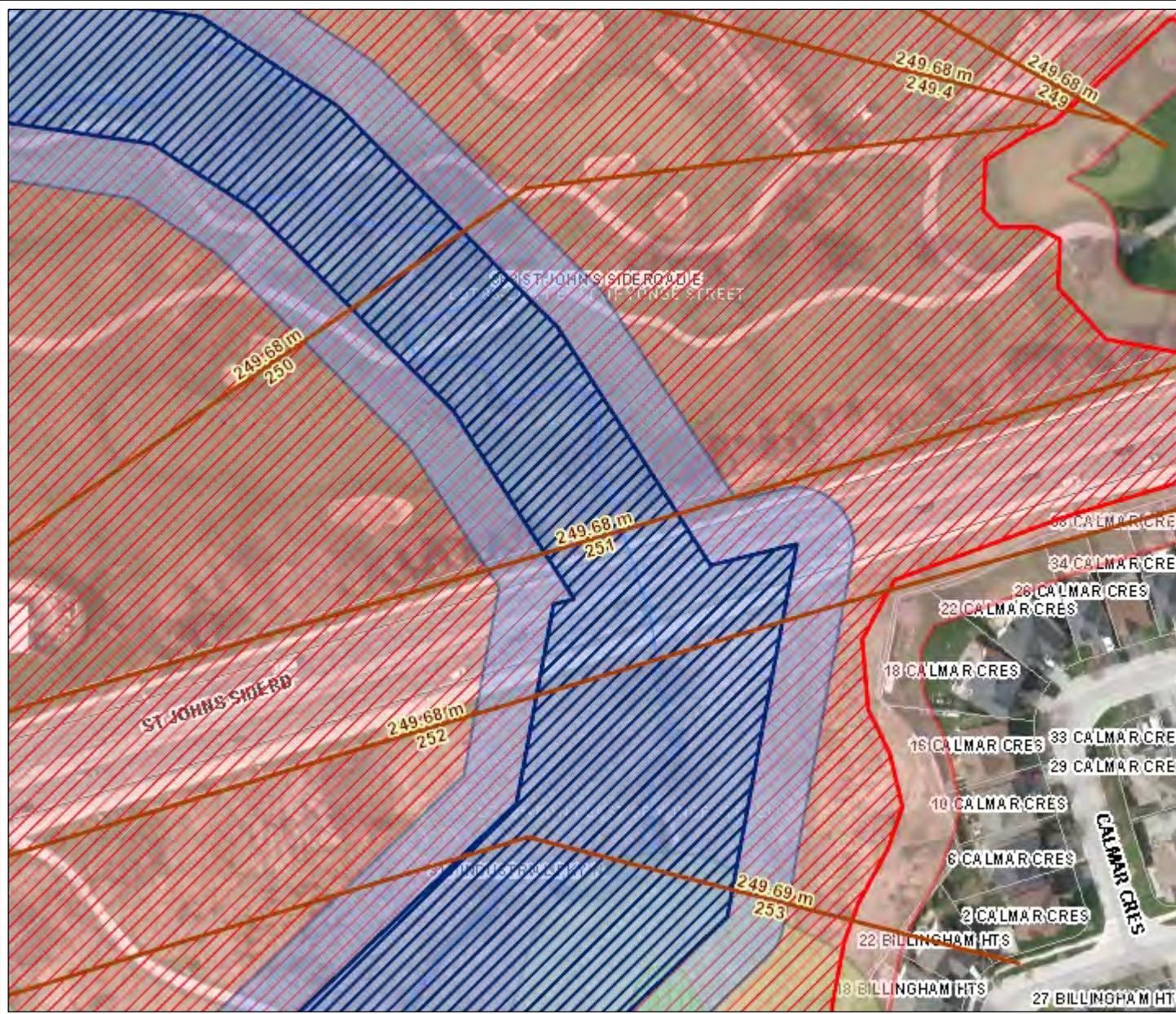
t.stevenson@LSRCA.on.ca | www.LSRCA.on.ca

Twitter: @LSRCA

Facebook: LakeSimcoeConservation

Have feedback? Please fill out our [Customer Service Survey](#) today.

The information in this message (including attachments) is directed in confidence solely to the person(s) named above and may not be otherwise distributed, copied or disclosed. The message may contain information that is privileged, confidential and exempt from disclosure under the Municipal Freedom of Information and Protection of Privacy Act and by the Personal Information Protection Electronic Documents Act. If you have received this message in error, please notify the sender immediately and delete the message without making a copy. Thank you.



Features

- LSRCA Watershed Boundary
- LSPP Watershed Boundary
- Cross Sections - Planning
- Meanderbelt
- Meanderbelt Setback
- Floodplain
 - Floodplain
 - Spill
 - Floodplain Setback
- Regulated Wetland
 - PSW
 - Non PSW
 - Wetland With Adjacent Lands
- MNRF Evaluated Wetland
 - PSW
 - Other Evaluated
- MNRF Unevaluated Wetland
- Assessment Parcel
- Lot and Concession
- Watercourse
- Roads
 - Hwy 400 Series
 - Highway, Arterials
 - Local Road
- Railway

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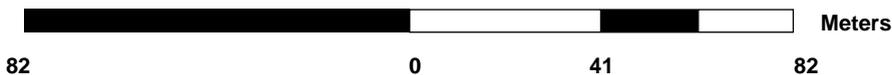


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Mapped By:

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Scale 1: 1,623



Features

-  LSRCA Watershed Boundary
-  LSPP Watershed Boundary
-  Cross Sections - Planning
-  Meanderbelt
-  Meanderbelt Setback
- Floodplain
 -  Floodplain
 -  Spill
 -  Floodplain Setback
- Regulated Wetland
 -  PSW
 -  Non PSW
 -  Wetland With Adjacent Lands
- MNRF Evaluated Wetland
 -  PSW
 -  Other Evaluated
-  MNRF Unevaluated Wetland
- Assessment Parcel 
- Lot and Concession 
- Watercourse 
- Roads
 -  Hwy 400 Series
 -  Highway, Arterials
 -  Local Road
- Railway 

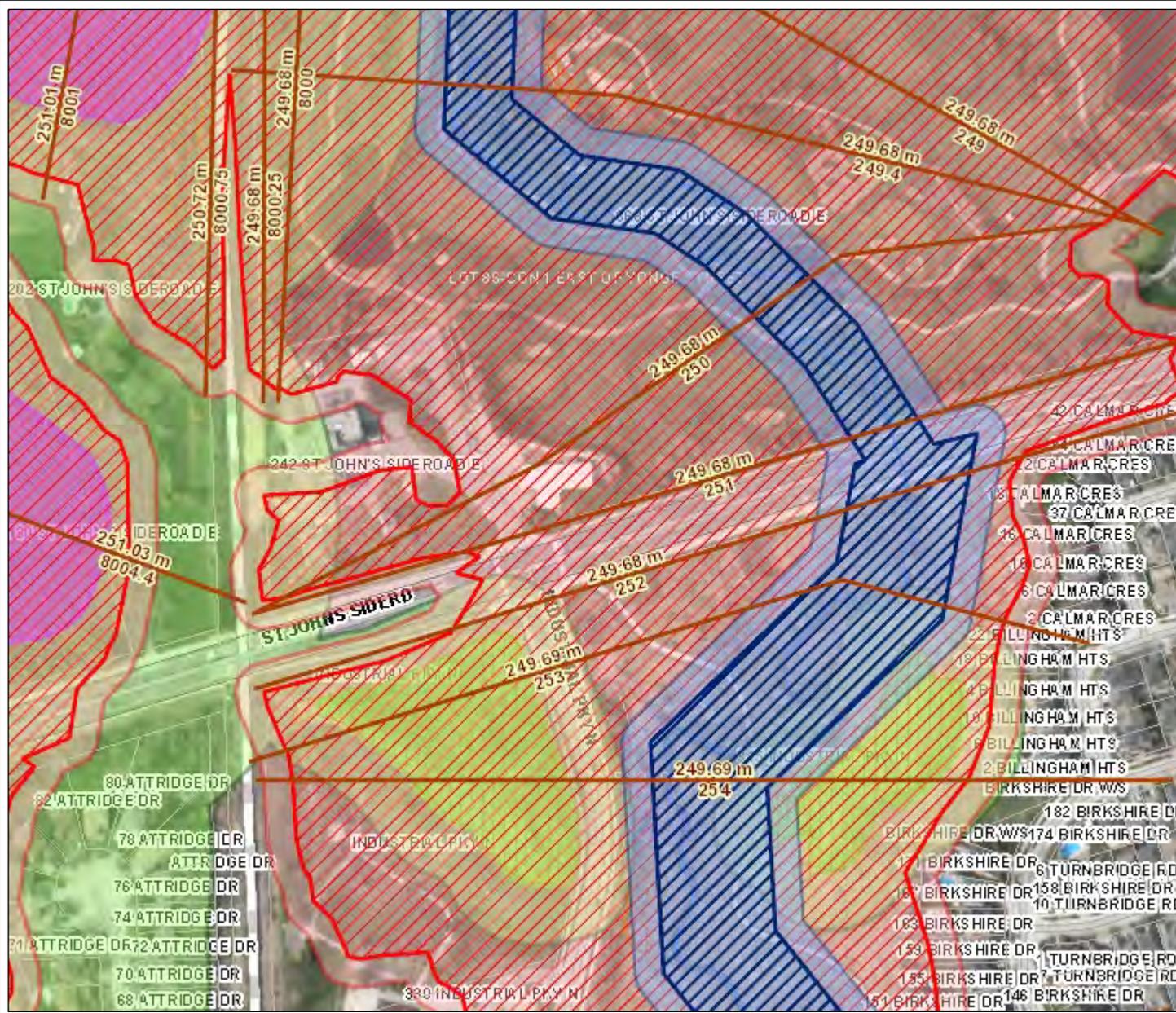
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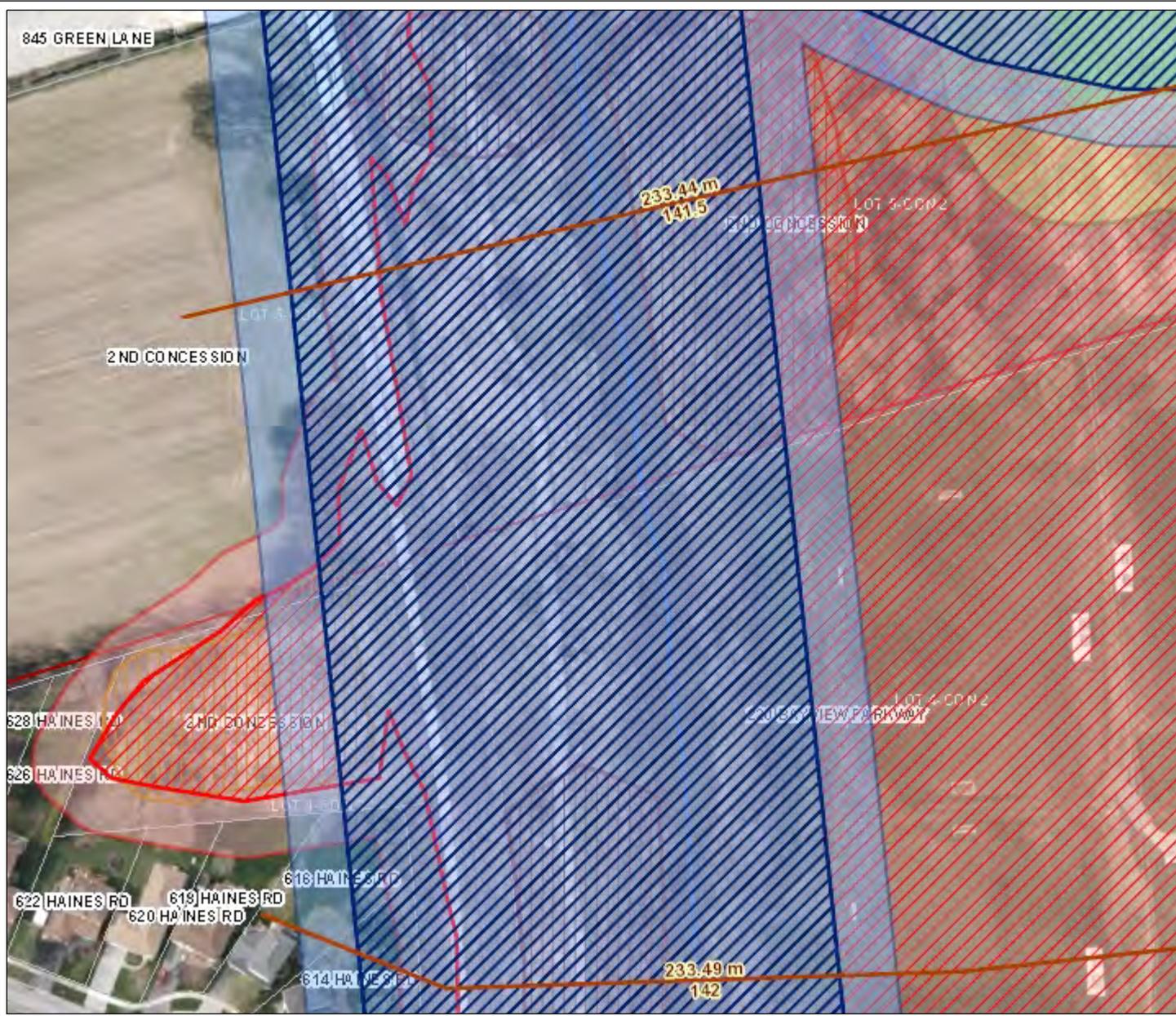
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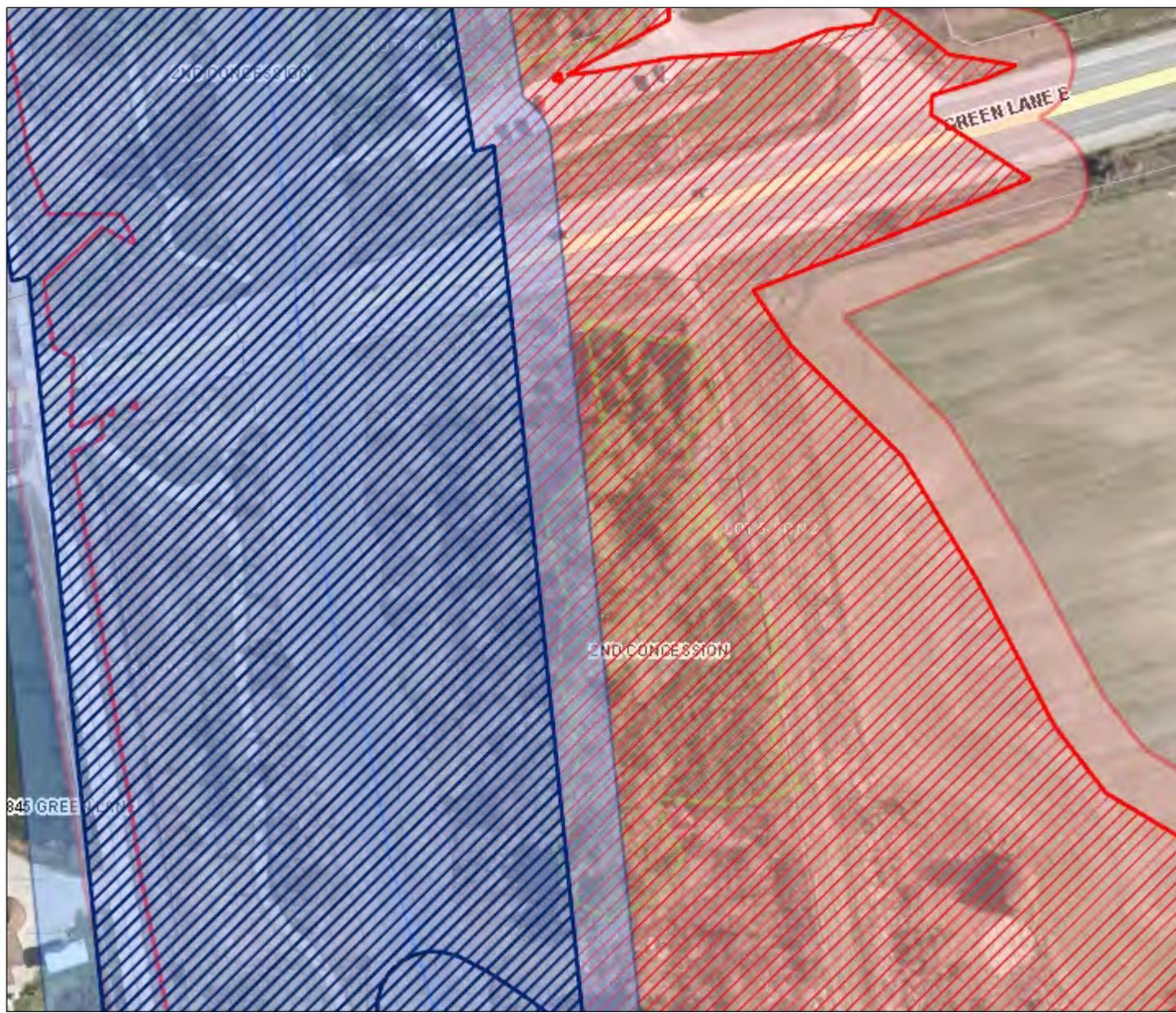
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Features

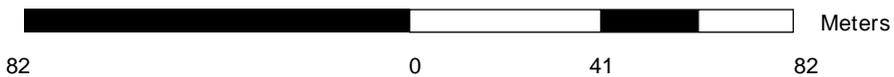
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-  Meanderbelt Setback
- Floodplain**
-  Floodplain
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-  Floodplain Setback
- Regulated Wetland**
-  PSW
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-  Wetland With Adjacent Lands
- MNRF Evaluated Wetland**
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-  MNRF Unevaluated Wetland
-  York Signif Woodland
-  Assessment Parcel
-  Lot and Concession
-  Watercourse
- Roads**
-  Hwy 400 Series
-  Highway, Arterials
-  Local Road
-  Railway

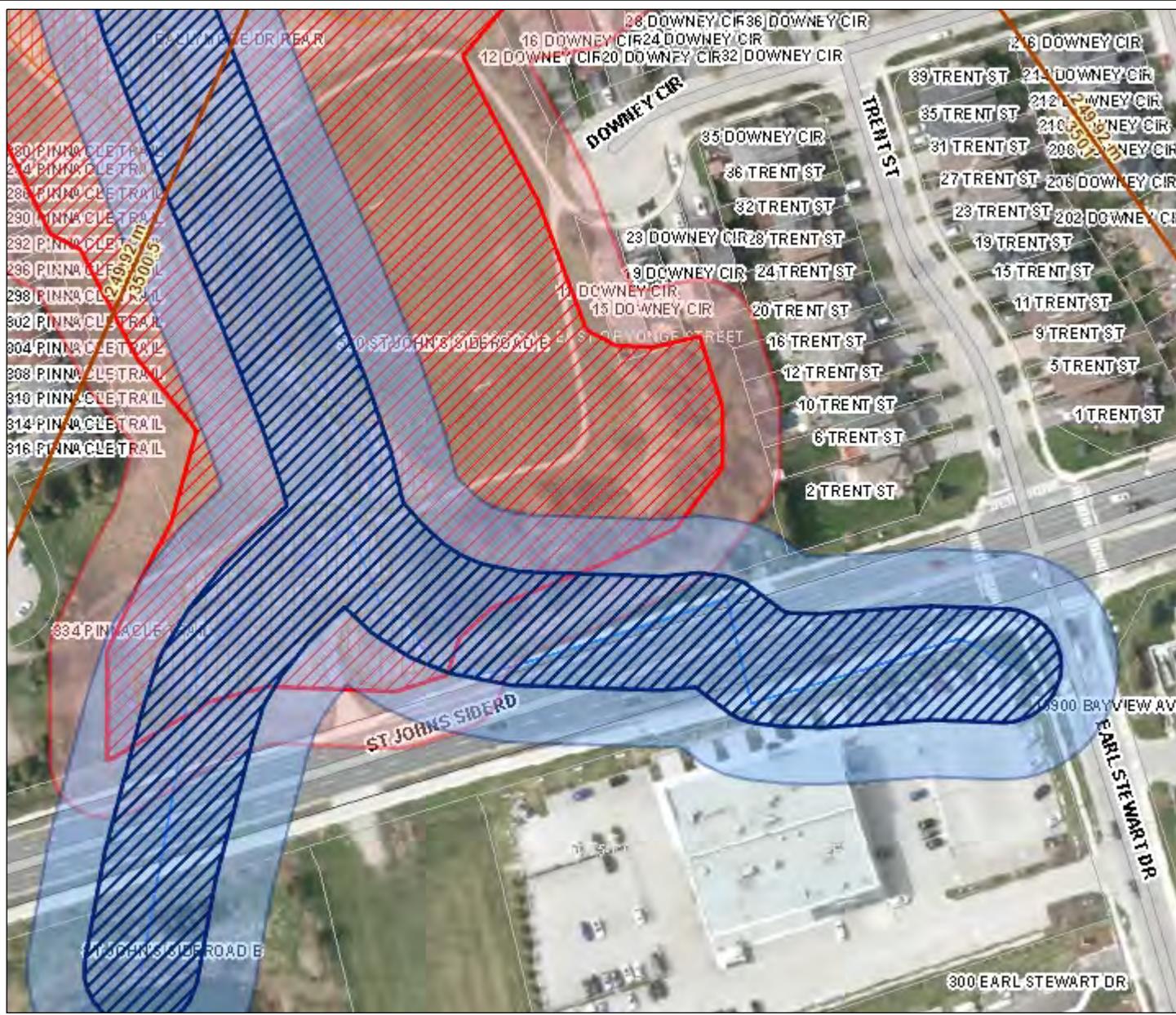
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Features

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- Cross Sections - Planning
- Meanderbelt
- Meanderbelt Setback
- Floodplain
 - Floodplain
 - Spill
 - Floodplain Setback
- Regulated Wetland
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Meters



- Features**
- LSRCA Watershed Boundary
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 - Cross Sections - Planning
 - Regulation Boundary
 - Meanderbelt
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 - Floodplain**
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 - Regulated Wetland**
 - PSW
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 - MNRF Evaluated Wetland**
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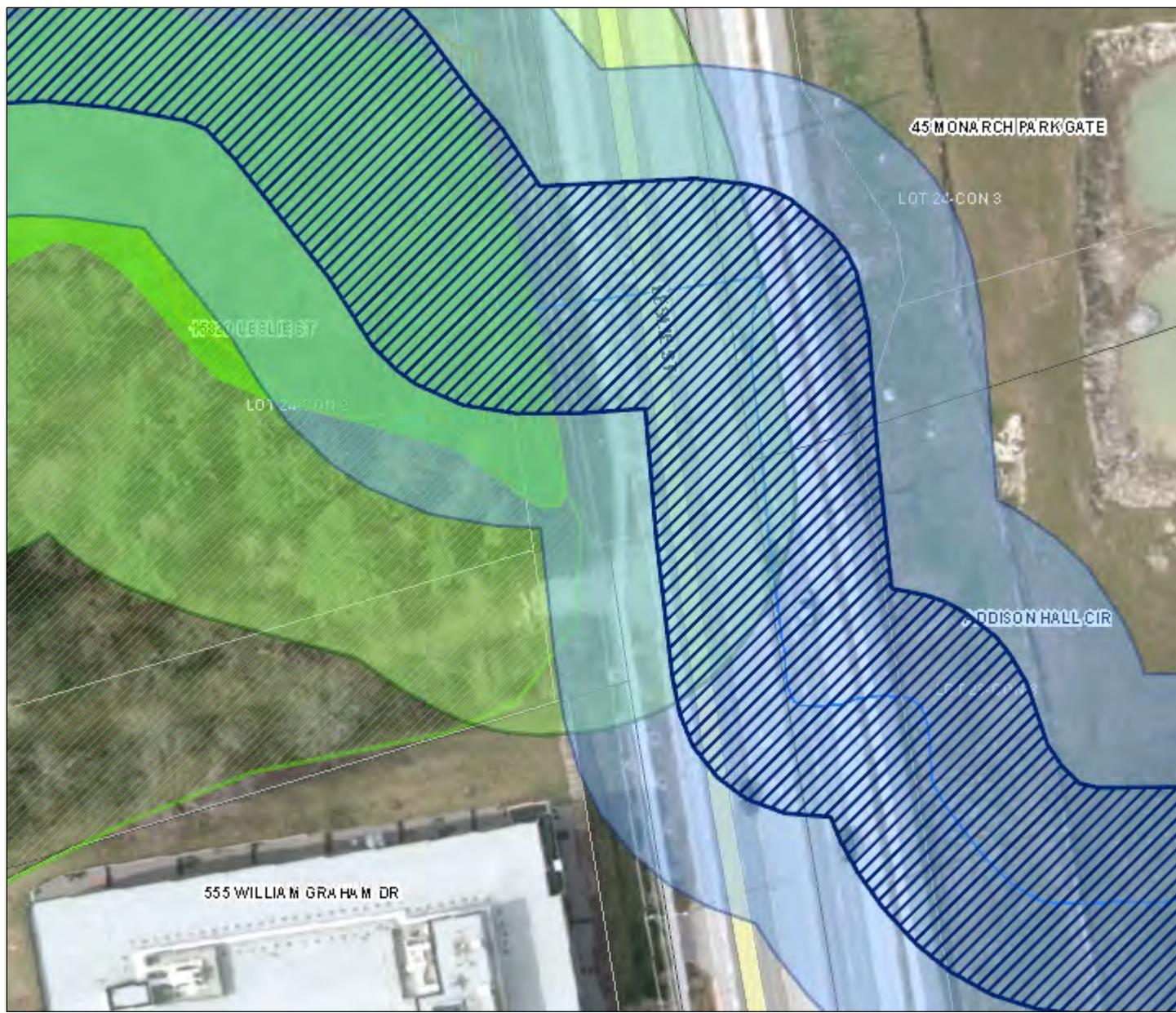
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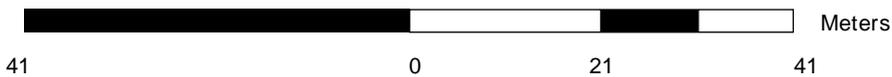


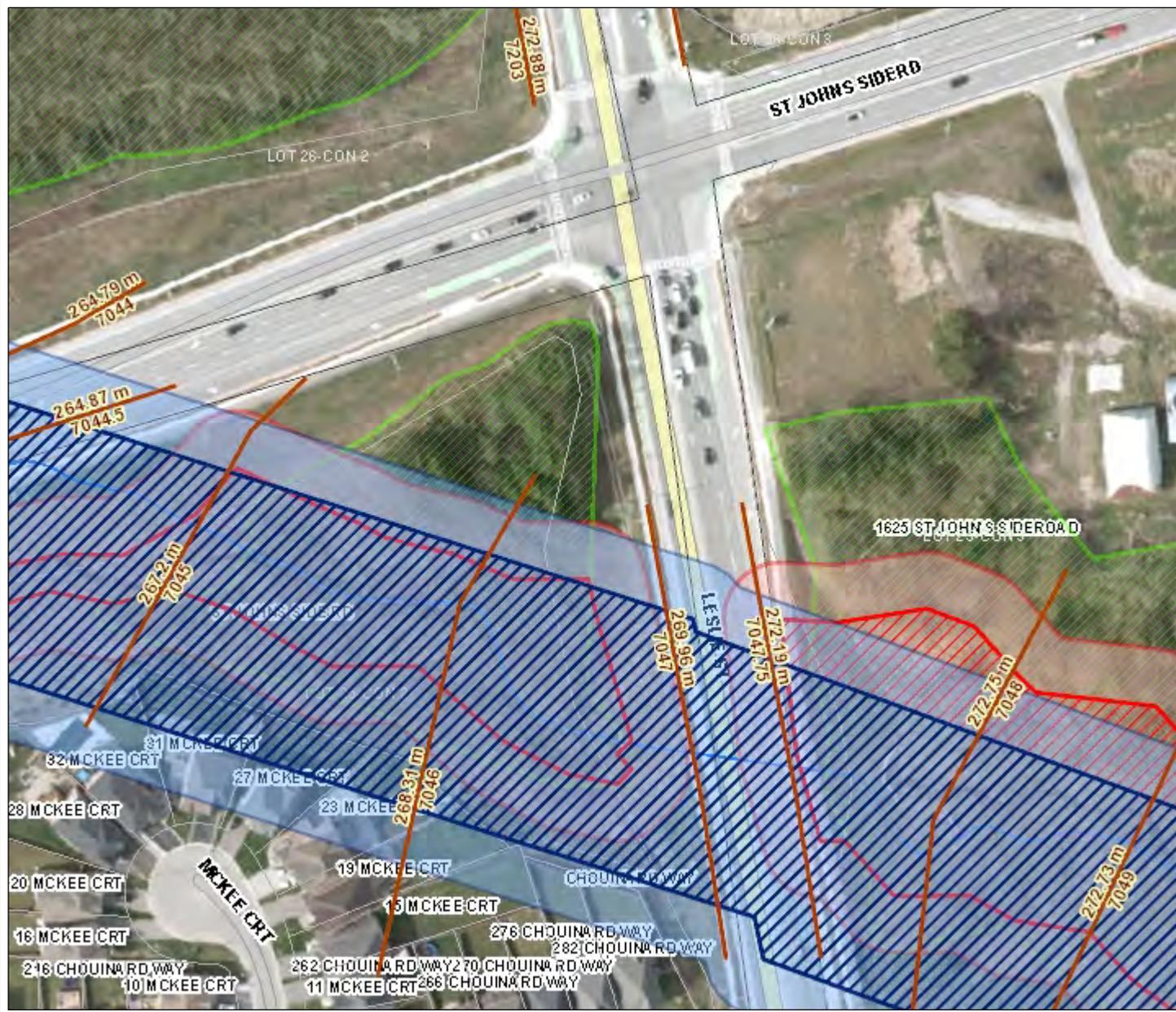
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Features

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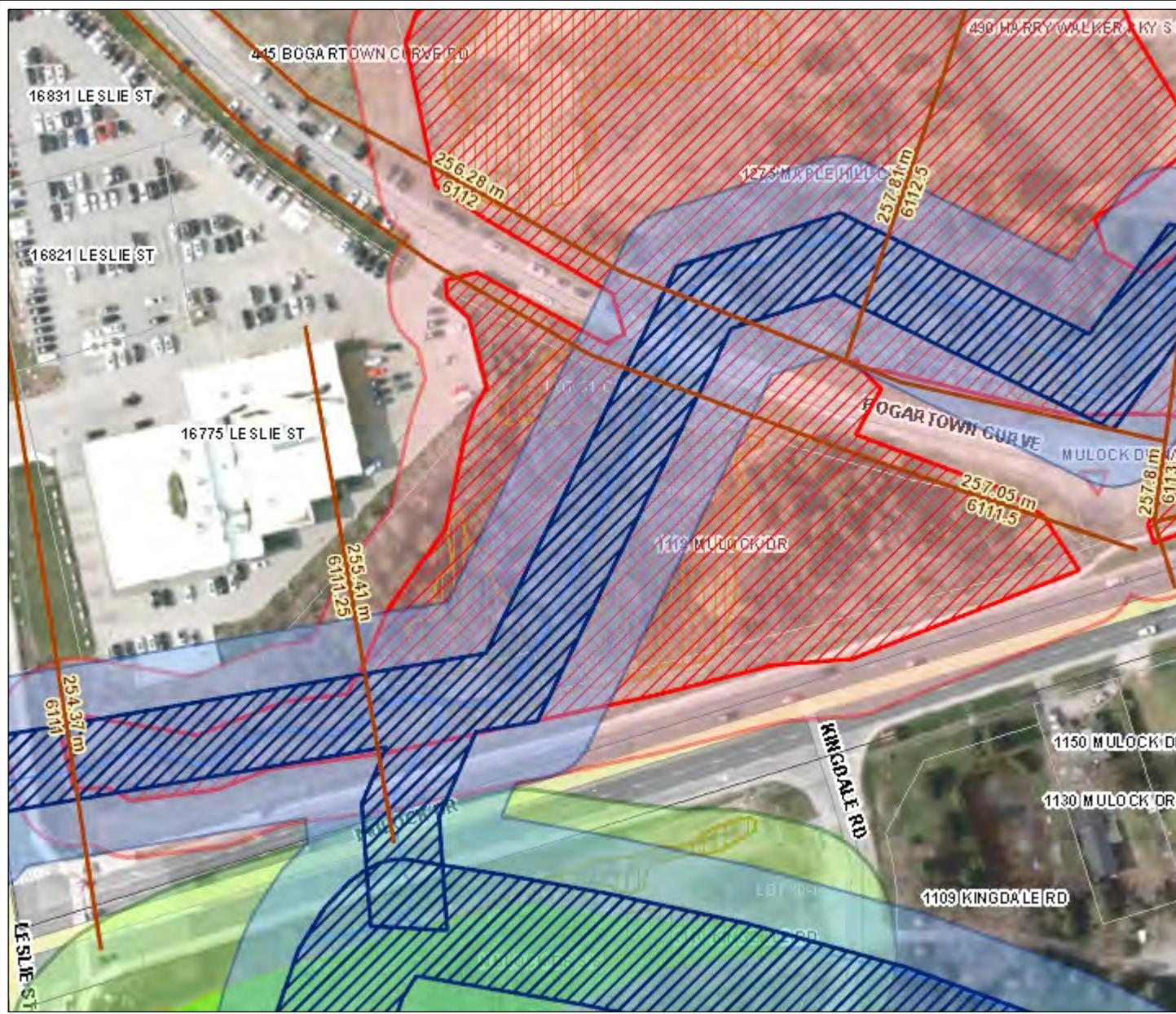
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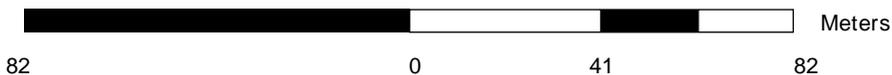
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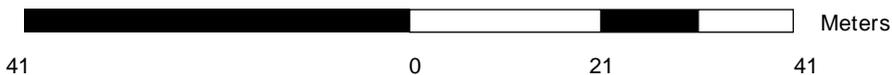
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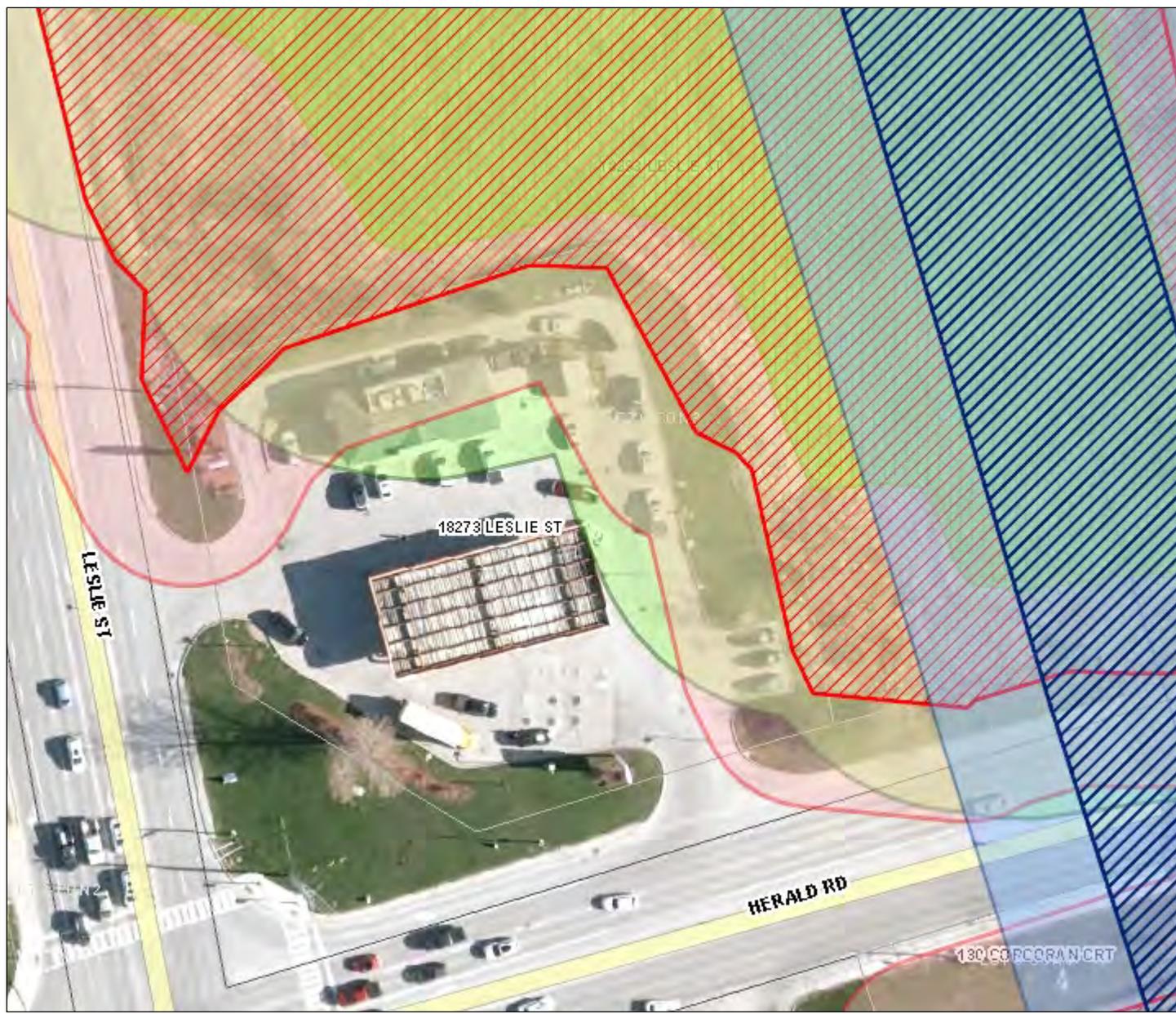
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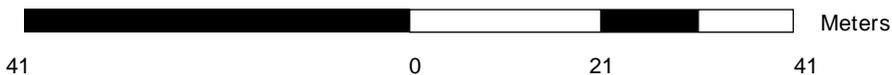
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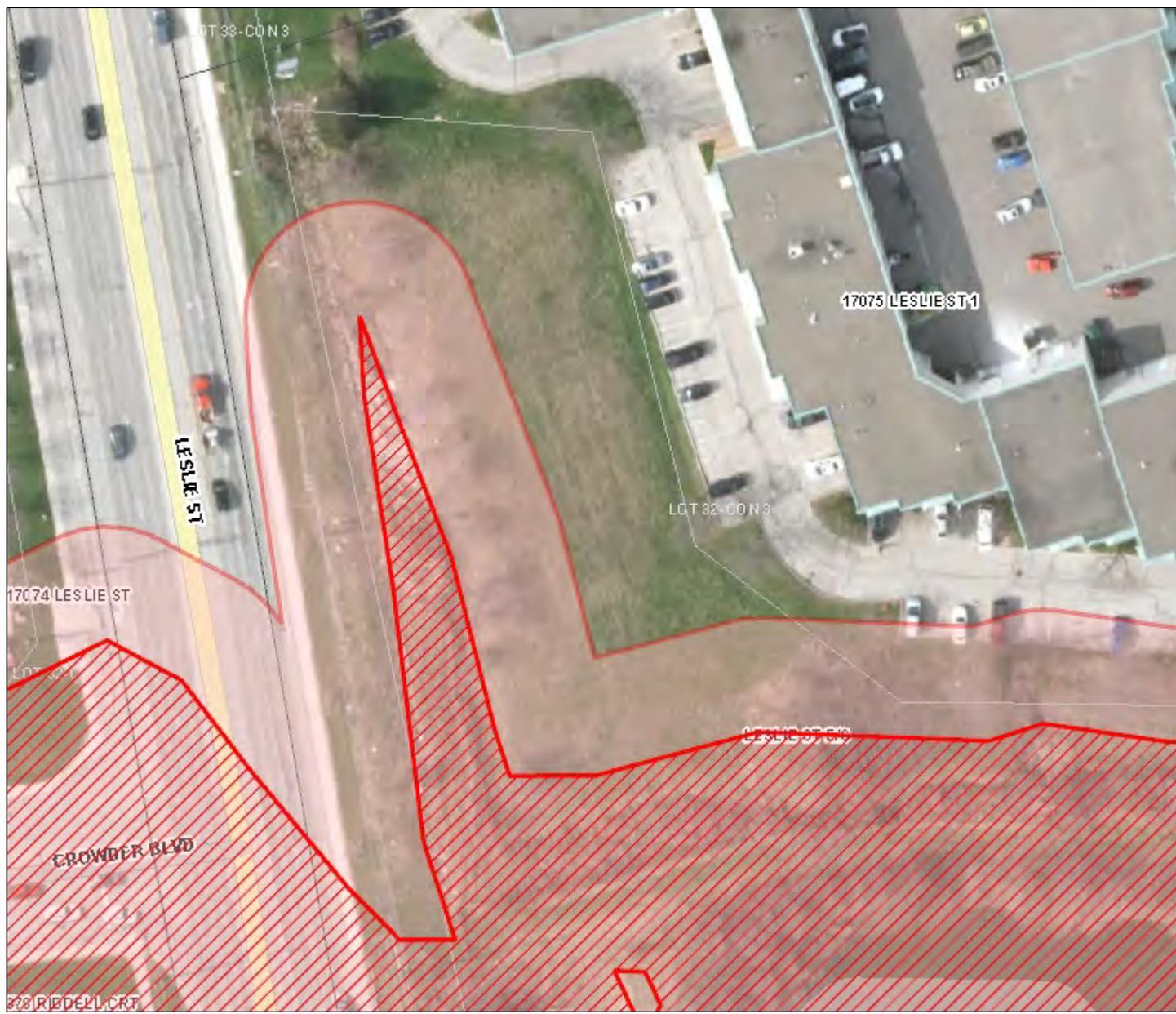
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Features

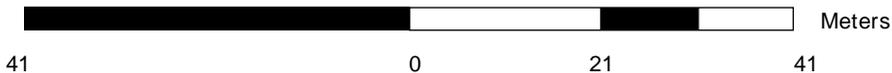
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Features

- LSRCA Watershed Boundary
- LSPP Watershed Boundary
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- Watercourse
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Ministry of the Environment,
Conservation and Parks

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



Office of the Minister

Bureau du ministre

777 Bay Street, 5th Floor
Toronto ON M7A 2J3
Tel.: 416-314-6790

777, rue Bay, 5^e étage
Toronto (Ontario) M7A 2J3
Tél. : 416.314.6790

357-2023-1629

August 28, 2023

Ms. Erin Mahoney

Email: erin.Mahoney@york.ca

Mr. John Presta

Email: john.presta@durham.ca

Dear Ms. Mahoney and Mr. Presta:

I am writing to notify you of the schedule for submission of the report required by section 4 of the *Supporting Growth and Housing in York and Durham Regions Act, 2022* (the 'Act').

I would like to thank York and Durham Regions for their continued work to ensure that the York Region sewage works project is completed in a timely manner. Further to this, ministry staff have informed me that to ensure that the project report required by section 4 of the Act (the Project Report) is satisfactorily completed, more time is required to develop and finalize the report than the preferred submission date of October 20, 2023. I also understand that the regions and the ministry have settled on October 31, 2023, as a reasonable date for submission of the report.

As such, and in accordance with subsections 4 (3) and 12 (1) of the Act, I am writing to inform you that I am setting the following dates for submission to me of the report and a draft of the report:

- A comprehensive draft of the Project Report shall be submitted no later than **September 30, 2023**.
- The final Project Report shall be submitted no later than **October 31, 2023**.

I also request that the Regions provide the ministry and my office with a briefing on the draft project report during the week of **September 30, 2023**. Please arrange the timing of the briefing through Tom North.

Also, I want to be clear that these timelines do not change the expectation set out in my March 28, 2023 letter that the Leslie St sewer twinning (formerly known as the Yonge St sewer twinning) will be completed by December 31, 2026.

Ms. Erin Mahoney and Mr. John Presta
Page 2.

Should you or any project team members have questions regarding the above, please contact Tom North at tom.north@ontario.ca.

We appreciate York and Durham Region's continued commitment to working effectively and collaboratively to implement this project and other projects to support growth in the Regions.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Piccini', with a stylized flourish at the end.

David Piccini
Minister of the Environment, Conservation and Parks

c: Tom North, Director, York and Durham Regions Wastewater Project, MECP

August 31, 2023

CFN 69537

BY E-MAIL ONLY (shu.he@york.ca)

Shu He
Regional Municipality of York
17250 Yonge Street
Newmarket, ON
L3Y 6Z1

Dear Shu He,

**Re: Conceptual Designs
York Region Sewage Works Project
Supporting Growth and Housing in York and Durham Regions Act, 2022**

This correspondence responds to the conceptual designs received by Toronto and Region Conservation Authority (TRCA) staff on August 11, 2023. Documents reviewed by TRCA include the York Region Sewage Works – Concept Drawings for Comments (64 Pages); prepared by GHD Ltd; dated August 2023, received by TRCA on August 11, 2023.

OVERVIEW

The York Region Sewage Works Project (the Project) is defined as the improvement, enlargement, extension, and any other modifications of the York Durham Sewage System (YDSS) in York and Durham Regions to convey sewage from Aurora, East Gwillimbury and Newmarket. This is a long-term wastewater infrastructure project in York Region and Durham Region across the cities of Richmond Hill, Markham, and Pickering within TRCA jurisdiction. The Project includes:

- New wastewater sewers, new pumping stations and expansions to existing pumping stations in East Gwillimbury, Newmarket, Aurora, Richmond Hill, Markham, and Pickering.
- Expansion of the Duffin Creek Water Pollution Control Plant (WPCP) in Pickering.

As per the Supporting Growth and Housing in York and Durham Regions Act, 2022 (the Act), York Region will prepare a Project Report and is exempt from the Environmental Assessment Act. Staff understands that the Project Report will assess impacts to and develop mitigation measures for natural environment, including natural heritage features and species at risk; geotechnical and hydrogeological conditions; groundwater and surface watercourses such as rivers, creeks and Lake Ontario; existing potential soil and groundwater contamination; archaeological resources on land and marine environments and cultural heritage landscapes.

TRCA REVIEW

Staff highlighted TRCA's areas of interest for this undertaking in correspondence dated August 10, 2023. Staff also met with the York Region project team on August 10, 2023, to review the working conceptual designs, and provided feedback on the proposed conceptual designs and TRCA areas of interest. Staff have completed their review and provide further detailed comments enclosed as Appendix A: TRCA Comments and Proponent Responses.

RESUBMISSION REQUIREMENTS

1. All submissions to TRCA should be accompanied by a covering letter which uses the numbering scheme provided in the TRCA letter and identifies how TRCA comments have been addressed.
2. This application is part of a service level agreement, and no fees are required.

Should you have any questions, please contact me at 416-628-7745 or at harsimrat.pruthi@trca.ca.

Regards,



Harsimrat Pruthi
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services

/HP

BY E-MAIL

cc: York Region: Jason Morris, Environmental Specialist
GHD: Tom Casher, Project Manager
Katrina McCullough, Senior Community Engagement Specialist and Environmental Planner
Source Water: sourcewaterprotection@york.ca
Greg Lymer, Risk Management Official, Region of Durham
TRCA: Victoria Kramkowski, Government and Community Relations Specialist (York Region)
Johanna Kyte, Government and Community Relations Specialist (Durham Region)
Suzanne Bevan, Senior Manager, Infrastructure Planning and Permits
Edlyn Wong, Senior Property Agent (York Region)
Brandon Hester, Senior Property Agent (Durham Region)

APPENDIX A: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	CONCERN	TRCA COMMENTS (August 31, 2023)	PROponent/CONSULTANT RESPONSE
1.	Natural Systems	<p>a) Regulation limits are a screening tool and do not comprehensively identify all regulated features and hazards on the landscape. The project team will need to confirm the features in the field. TRCA has provided existing data within and adjacent to the study area. Should any additional details be required, contact the undersigned TRCA Planner. Similarly, the province’s LIO database should be consulted for information on wetlands and other natural features.</p> <p>b) Once confirmed, clearly identify all features and hazards including steep valley slopes and floodplains along the alignment and avoid placing shafts within or immediately adjacent to wetlands and watercourses. Also, show locations of the proposed construction compounds, stockpiling and staging area on the plans and avoid sites within or adjacent to natural features and hazards.</p> <p>c) Clearly identify all proposed open cut sections of the alignment on the plans and the proximity to natural features/steep slopes, floodplains etc. should be provided on the drawings.</p> <p>d) Restoration and/or compensation will be required for the temporary disturbance or permanent removal of natural features, as appropriate. Requirements will be dependent on the scale and duration of impacts.</p>	
2.	Natural Systems	<p>From the materials submitted, the following locations are examples of areas where confirmed or potential features appear to conflict with the sewer alignment, footprint of shaft, or compound areas. Note this is not a comprehensive list and further studies will need to identify features:</p> <ul style="list-style-type: none"> - Along Squires Beach Road, there is a Provincially Significant Wetland (PSW) north of Kellino Road, and an unevaluated wetland on 1220 Squires Beach Road. - Along the Markham Collector Twinning (Y2), the alignment is traversing through multiple unevaluated wetlands and watercourses, including the Rouge River and associated vegetation. 	

		<ul style="list-style-type: none"> - Drawing titled “Proposed (PR) D2 – Squires Beach SPS”, the blue polygon for SSPS is located within a PSW. - ELC Mapping for the proposed Duffin Creek WPCP extension shows that the work is within a cultural meadow but TRCA’s ELC Data shows a Red Osier Dogwood Mineral Thicket Swamp in the area. - Leslie Street Section 1: MH S01A & MHS02A are within unevaluated wetlands and within Red Side Dace (RSD) contributing wetland, the proposed alignment is within PSWs and occupied RSD habitat. - Leslie Street Section 2 crosses Haynes Lake, PSWs, and watercourses. - Along Bloomington Road (Drawing CI-D202), MH 01A is within a wetland. 	
3.	Natural System	The alignment and shaft locations for the Leslie Street Trunk Sewer should avoid Haynes Lake and associated PSWs. Provide the invert elevation of Haynes Lake to the profile on Drawing C1-D221 to confirm the depth of cover.	
4.	Natural System	On Drawing C1-D220, the 4000 m ² construction compound adjacent to MHS02 is situated within a PSW that is also classified as contributing Redside Dace habitat. It has come to TRCA’s attention that unauthorized works have occurred on the property which have removed/impacted the PSW. An alternative site should be considered as this matter will be further investigated. Should you require further information please contact me directly.	
5.	Natural System	The proposed 12000 m ² construction compound adjacent to MH S08A on Drawing C1-D202 will displace unevaluated wetlands. Consider reconfiguring the shape of the compound to avoid wetlands.	
6.	Natural System	On Drawing C1-D202, the construction compound at MH 01 will involve removal of an unevaluated wetland and natural feature. Alternatives sites and/or reconfiguration of the compound should be considered.	
7.	Stormwater Management	Drawing Y2-C2 illustrated a proposed sanitary sewer alignment crossing two existing ponds. TRCA recommends a further investigation in the proposed alignment of the sanitary system to avoid crossing two existing ponds, if possible.	
8.	Watercourse Crossings	Through TRCA’s staff previous experience, there are numerous locations where there are watercourses being conveyed in roadside ditches, which need to be clearly identified and avoided. For example, on Leslie Street south of Bethesda Sideroad, and south of Stouffville Road. Staff are available to conduct a site visit to assist in identifying these locations.	
9.	Watercourse Crossings	On Drawing Y2-C11, there are two 1350 mm pipes proposed to cross under the Rouge River. Provide bed, bank and thalweg elevations for the river as well as the proposed obvert of the pipes and ensure there is a minimum of 2.0 m clearance between the thalweg of the river and the pipes. The rate of downcutting by the river in this location should be considered, as well as	

		the effects of climate change which may result in the pipes having to be deeper. Update the design to ensure that a minimum of 2.0 m clearance from the obvert of the pipe to the invert of the watercourse is provided at all crossing locations. Update all drawings as applicable.	
10.	Watercourse Crossings	On Drawing C1-D220, identify all the existing culvert/watercourse crossing locations on the plan and profile view of the drawing to clearly demonstrate that a minimum 2.0 m clearance is provided between the obvert of the sanitary pipe to the invert of the watercourse. For example, it is challenging to determine the clearance separation provided between the existing watercourse and the proposed sanitary pipe at ~Sta. 1+500.	
11.	Geotechnical Engineering	A comprehensive geotechnical investigation be conducted to include recommendations for all the proposed structures. Submit a geotechnical report, signed, and sealed by a licensed Professional Engineer during detailed design.	
12.	Geotechnical Engineering	Provide detailed engineering drawings for the proposed works at the detailed design stage. Note that all engineering drawings should be signed and sealed by a licensed Professional Engineer.	
13.	Slope Stability	Clarify if any structures are being proposed near steep slopes. If yes, a slope assessment be conducted during detailed design to accurately delineate the long-term stable top of slope (LTSTOS) and clearly shown on plans, as appropriate. The slope analyses be included in the geotechnical investigation. Further, note that any proposed structures will have to be sufficiently setback from the LTSTOS.	
14.	Site Grading	At detailed design, provide a site grading plan for the proposed works. If significant site grading work is required, then a geotechnical engineer be retained to provide appropriate site grading recommendations. The site grading recommendations to be included in the geotechnical study.	
15.	Erosion and Sediment Control	At detailed design stage, provide Erosion and Sediment Control (ESC) measures and plans for TRCA's review. Ensure TRCA ESC guidelines are used in developing the site-specific ESC plans.	
16.	Shoreline Hazard	The Duffin Creek WPCP expansion is in proximity of Lake Ontario and the proposed new outfall is within Lake Ontario. Be advised that TRCA regulatory authority extends to its jurisdictional boundary including the bed of Lake Ontario. A qualified coastal engineer should be retained to carry out a shoreline hazard study to accurately delineate the shoreline hazard limit. This will inform the level of risk and form the foundation on which approvals and location/design of structures/infrastructure will be based, as well as increase the resiliency of the Region's investment. Submit a shoreline hazard study report during detailed design. For further information, refer Section 7.4.3.4 Lake Ontario Shoreline Hazards in The Living City Policies.	

		<p>Note that TRCA peer review consultant fees will apply to the review of the shoreline hazard study as it is not part of the York Region Service Level Agreement. For more information, refer TRCA Fee Schedule.</p>	
17.	Hydrogeology /Groundwater /Dewatering	<p>Note that expansion of the YDSS sewer to the Duffin Creek WPCP may have the potential for large scale dewatering with drawdown impacts that could extend for kilometres from the sewer alignment. The risk for this dewatering is highest for deep tunnelled sections and in particular, shafts. This dewatering could result in impacts to wetlands and watercourses, and an increase in erosion at discharge location(s). These impacts can be mitigated by optimizing the alignment to avoid deep tunnelling/shafts in highly permeable confined aquifers.</p> <p>As discussed during the meeting on August 10, 2023, TRCA notes that hydrogeological data are not yet available for this project. As this project proceeds to detailed design, it is advised that special attention be paid to the hydrogeologic conditions in the vicinity of any proposed shafts, and that deep tunnel and shaft construction methodologies be employed such that dewatering requirements are minimized. It is recommended that shafts be constructed without the need for dewatering to minimize potential impacts to groundwater fed natural features such as wetlands and watercourses. The above approach was used for the YDSS project along 19th Avenue between Bayview Avenue and Leslie Street.</p> <p>Hydrogeological knowledge gained from the previous YDSS projects should be utilized to inform both the alignment at the conceptual stage and construction methodologies at detailed design. Consultation with TRCA staff should occur as soon as hydrogeological information is available.</p> <ul style="list-style-type: none"> a. An Environmental Management Plan (EMP) is likely required for the proposed works and should comply with TRCA’s EMP Guidelines (https://trcaca.s3.ca-central-1.amazonaws.com/app/uploads/2016/02/17185417/TRCA_Technical_Guidelines_for_the_Development_of_EMPs_for_Dewatering.pdf). <ul style="list-style-type: none"> i. All Zones of Influence for any dewatering is required on the air photos to determine if the ZOI’s may affect wetlands, watercourses or other sensitive natural features. All dewatering outlets need to be clearly identified on the plans and should avoid direct discharge to any natural features. The dewatering rates need to be below the erosion thresholds of all receiving watercourses. This will need to be clearly outlined in the EMP. b. Borehole information is required along the pipe alignment and at shaft locations. Add borehole data to the cross sections including groundwater levels. 	

18.	TRCA Owned Lands	<p>The conceptual designs indicate locations near TRCA Owned Lands. Confirm if TRCA land will be required as part of the proposed works including shafts, manholes, access, staging and stockpiling area. TRCA comments provided as a landowner are separate from comments provided under a technical, advisory, or regulatory role.</p> <p>Acquisition and Easement: If TRCA owned land transfer or easements are a requirement for the implementation of the preferred alternative, permission, and approval from TRCA and the Minister of Natural Resources and Forestry are required. The design must demonstrate that TRCA program and policy objectives are met. Formal approval typically takes 12 to 18 months from the completion of the EA Document. Contact Edlyn Wong, Senior Property Agent, Edlyn.wong@trca.ca for additional information.</p> <p>Permission to Enter: If TRCA owned land access is required for the purpose of completing technical studies associated with this project, a Permission To Enter (PTE) must be obtained from TRCA Property prior to entry. Contact Desiree Sampson, Property Coordinator, at desiree.sampson@trca.ca for additional information.</p> <p>Archaeological Resources: An archaeological review by TRCA’s archaeological must precede any disturbance to TRCA owned land. If an archaeological assessment is required, scheduling will be subject to weather, seasonal programs and other field work and are at additional cost to the proponent.</p> <p>Contact Alistair Jolly, Archaeologist at Alistair.jolly@trca.ca for additional information.</p>	
19.	Advisory Comment	<p>Shaft locations should avoid proximity to the heronry located in North Leslie, Richmond Hill to avoid noise impacts to the heronry. The heronry is located on the east side of Leslie Street, south of 19th Avenue. The proposed work area at 19th Avenue and Leslie Street is within the noise influence zone of the heronry. Timing restrictions for noise generating work may be required and limited to outside of the nesting season. For further information, contact the City of Richmond Hill.</p>	

September 29, 2023

The Honourable Andrea Khanjin
Minister of the Environment, Conservation and Parks
Ministry of the Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto ON M7A 2J3

minister.mecp@ontario.ca

Dear Minister Khanjin,

Re: York Region Sewage Works Draft Project Report

As requested in Minister Piccini's August 28, 2023 letter, I am pleased to submit:

- Draft York Region Sewage Works Project Report
- Draft York Region Sewage Works Indigenous Communities Consultation Report (Interim Report)
- Draft York Region Sewage Works Interested Persons Consultation Report (Interim Report)

The Region is fully aligned with the Province in advancing critical water and wastewater infrastructure needed to build homes faster. The Project Report has been prepared in accordance with section 4 of the *Supporting Growth and Housing in York and Durham Regions Act, 2022* (the 'Act'). Specifically, as required by section 4 (2) the Project Report contains details of:

- work required to meet the requirements of section 3 of the Act;
- associated cost of the work required to meet the requirements of section 3 of the Act;
- approvals required to meet requirements of section 3 of the Act; and
- impacts to the environment of the project and the mitigation of those impacts.

In accordance with section 4 (6) of the Act, the Indigenous Communities Consultation Report and Interested Persons Consultation Report include:

- a description of the consultations carried out;
- a list of the Indigenous communities or interested persons who participated in the consultations;
- summaries of any comments submitted;
- copies of all written comments submitted by Indigenous communities and other interested persons;
- a summary of discussions that York Region and Durham Region had with Indigenous communities and interested persons;
- a description of what York Region and Durham Region did to respond to concerns expressed by Indigenous communities and interested persons; and

- commitments made by York Region and Durham Region to Indigenous communities or other interested persons in respect of the Project.

The draft Project Report, Indigenous Communities Consultation Report and Interested Persons Consultation Report are being submitted via a download link provided by email.

We continue to work closely with your Ministry to realize advantages of your commitment to a streamlined approval process and expedited timelines. This close collaboration is foundational to accelerate delivery of this long-awaited sanitary solution to service growth in three of our communities and mitigate system risks. In accordance with Minister Piccini's August 28, 2023 letter, the final Project Report will be submitted no later than October 31, 2023.

Should you or the Ministry have questions or wish to discuss in detail, please contact Mike Rabeau, General Manager, Capital Infrastructure Services, Public Works at 1-877-464-9675 ext. 75157 or email at mike.rabeau@york.ca.

Sincerely,



Erin Mahoney, M.Eng.
Commissioner of Public Works
The Regional Municipality of York

Attachment(s): (3) Draft York Region Sewage Works Project Report
Draft York Region Sewage Works Indigenous Communities Consultation Report (Interim Report)
Draft York Region Sewage Works Interested Persons Consultation Report (Interim Report)

Copy to: Wayne Emmerson, Chairman, Regional Municipality of York
Lina Bigioni, Chief of Staff, Regional Municipality of York
Lisa Trevisan, Assistant Deputy Minister (A), Environmental Assessment & Permissions Division
Tom North, Director, DWEC, Ministry of the Environment, Conservation and Parks
Mike Rabeau, General Manager, Capital Infrastructure Services, Regional Municipality of York
Pina Accardi, Director Capital Delivery Water and Wastewater, Regional Municipality of York
Shu He, Manager, Engineering, Public Works, Regional Municipality of York
John Henry, Chairman, Regional Municipality of Durham
Elaine Baxter-Trahair, Chief Administrative Officer, Regional Municipality of Durham
Ramesh Jagannathan, Acting Commissioner, Works, Regional Municipality of Durham

YORK-#15251612

**Ministry of Citizenship
and Multiculturalism**

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and
Heritage Division
5th Flr, 400 University Ave
Tel.: 416.786.7553

**Ministère des Affaires civiques
et du Multiculturalisme**

Unité de la planification relative au
patrimoine
Direction du patrimoine
Division des affaires civiques, de
l'inclusion et du patrimoine
Tél.: 416.786.7553



October 6, 2023

EMAIL ONLY

Katrina McCullough, M.P.I., RPP
Environmental Planner and Senior Stakeholder Engagement Specialist
GHD
184 Front Street, Suite 302
Toronto, ON M5A 4N3
Katrina.McCollough@ghd.com

MCM File : **0019662**
Proponent : **York Region**
Subject : **Cultural Heritage Reports**
Project : **York Region Sewage Works Project**
Location : **Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the
Cities of Richmond Hill, Markham and Pickering, York Region and
Durham Region**

Dear Ms. McCullough:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the *Cultural Heritage Reports: Existing Conditions and Preliminary Impact Assessment* for the above-referenced project.

We have reviewed the draft reports for the components of this project within:

- Markham, dated July 2023 (updated August 2023), prepared by ASI;
- Richmond Hill, Aurora, Newmarket and East Gwillimbury, dated July 31, 2023, prepared by TMHC; and
- Pickering and Ajax, dated June 2023, prepared by ASI.

Project Summary

The York Region Sewage Works Project is a long-term wastewater infrastructure project in York Region and Durham Region, across the Towns of East Gwillimbury, Newmarket, Ajax and Aurora and the Cities of Richmond Hill, Markham and Pickering. York Region will lead project consultation.

On November 28, 2022, the Ontario government passed the *Supporting Growth and Housing in York and Durham Regions Act, 2022*. The Act requires York Region and Durham Region to work

together to carry out the York Region Sewage Works Project. The Act mandates York Region to change from the previously contemplated Lake Simcoe watershed solution, also known as Upper York Sewage Solutions, to a Lake Ontario solution that pumps, conveys and treats wastewater at the Duffin Creek Plant in Durham Region.

As required by the Act, York Region and Durham Region will prepare a Project Report to document potential impacts to the environment and measures to avoid or mitigate these potential impacts.

General Comments

The Markham report and the Pickering and Ajax report are titled simply *Cultural Heritage Report: Existing Conditions*, and exclude a preliminary impact assessment, instead containing a recommendation that once preliminary design of the proposed work is available, the reports be updated to include impacts and appropriate mitigation measures. Conversely, the report for Richmond Hill, Aurora, Newmarket and East Gwillimbury includes a preliminary impact assessment (in its title and body), which takes into account the current uncertainty of the design and includes recommendations to design the project so as to minimize encroachment on resources. It is unclear why the approach is so different for the different components of the project, and we recommend that the approaches be harmonized, unless a rationale for the difference can be provided, or the distinction no longer applies by the time the reports are finalized for submission.

We would additionally recommend that the buffers used to define the study area be considered in light of the three separate reports, and harmonized if appropriate.

Detailed Comments: Markham

#	Section/Item	Comment
1	s. 1.1 – Project Overview	We would suggest that this or some other subsection of the Introduction briefly note the legislative trigger for this undertaking and the process it follows.
2	s. 1.2 – Description of Study Area	This section says that the report “will focus on the project study area with an additional 50 metre buffer.” Without knowing how the “project study area” is defined in the context of the main Project Report, this description does not meaningfully define the extent of the Cultural Heritage Report study area, and as noted above, it may not be consistent with that used in the Richmond Hill, Aurora, Newmarket, and East Gwillimbury report. The paragraph goes on to say that “This project study area has been defined as inclusive of those lands that may contain B.H.R.s or C.H.L.s that may be subject to direct or indirect impacts as a result of the proposed undertaking”, but this is unclear and does not provide a useful definition of the study area as a basis for identifying relevant potential resources. We recommend that this section be revised to more clearly define the report’s study area (e.g. to what is the “additional 50 metre buffer” applied?) and provide a rationale for this definition.
3	s. 2.0 - Methodology	It is unclear why Subsections 2.1 and 2.2 are part of the Methodology section. It may be more appropriate to present them as a separate section on the policy context or regulatory environment.
4	s. 2.1 – Regulatory Requirements	Similarly to comment #1 above, we would recommend that this subsection include some discussion of the <i>Supporting Growth</i>

		<i>and Housing in York and Durham Regions Act, 2022</i> as it pertains to this report.
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Detailed Comments: Richmond Hill, Aurora, Newmarket, and East Gwillimbury

#	Section/Item	Comment
1	Key Staff Bios	These bios should include a note on each staff member's specific role in the preparation of this report.
2	s. 1.2 – Methodology	We recommend that a more in-depth Methodology section be provided, perhaps separately from the Introduction, explaining how properties were selected as potential resources. See also comment #4 re Appendix B.
3	s. 5.4, 6.5, 7.5, 8.5 – Local Policy Context	It may be more appropriate to move the content of these subsections into Section 4, for a more comprehensive Policy Context section.
4	Appendix B – Built Heritage Resource and Cultural Heritage Landscape Inventory	<p>The “Description of Known or Potential Heritage” field in each table should contain more information, particularly for the potential BHRs/CHLs identified during field review. For such potential resources, this field should note what type of cultural heritage value or interest (CHVI) the property may hold, for example based on the O. Reg. 9/06 criteria. For some of the properties with this status, the field only notes the type and age of building located there. Identification of potential cultural heritage resources should be based on professional judgement, not merely checklist criteria such as age. In cases where no indication of potential CHVI exists beyond the age threshold, we would recommend removing the property from consideration.</p> <p>We would further recommend that “Heritage” be changed to “CHVI” in the title of this column.</p>
5	Appendix C – Heritage Screening Result and Appendix D – Existing Conditions	It is unclear what the difference is between these two appendices and whether they both need be presented.
6	Appendix E – Preliminary Impact Assessment By Property	Given the repetition of mitigation measures for many properties, it may be appropriate to provide a summary table within the body of the report indicating the properties to which each general mitigation approach applies. This appendix should also be revised if preliminary design work further clarifies potential impacts before final submission.

Detailed Comments: Pickering and Ajax

#	Section/Item	Comment
1	s. 1.1 – Project Overview	We would suggest that this or some other subsection of the Introduction briefly note the legislative trigger for this undertaking and the process it follows.
2	s. 1.2 – Description of Study Area	This section says that the report “will focus on the project study area with an additional 50 metre buffer.” Without knowing how the “project study area” is in the context of the main Project Report, this description does not meaningfully define the extent

		of the Cultural Heritage Report study area, and as noted above, it may not be consistent with that used in the Richmond Hill, Aurora, Newmarket, and East Gwillimbury report. The paragraph goes on to say that “This project study area has been defined as inclusive of those lands that may contain B.H.R.s or C.H.L.s that may be subject to direct or indirect impacts as a result of the proposed undertaking”, but this is unclear and does not provide a useful definition of the study area as a basis for identifying relevant potential resources. We recommend that this section be revised to more clearly define the report’s study area (e.g. to what is the “additional 50 metre buffer” applied?) and provide a rationale for this definition.
3	s. 2.0 - Methodology	It is unclear why Subsections 2.1 and 2.2 are part of the Methodology section. It may be more appropriate to present them as a separate section on the policy context or regulatory environment.
4	s. 2.1 – Regulatory Requirements	Similarly to comment #1 above, we would recommend that this subsection include some discussion of the <i>Supporting Growth and Housing in York and Durham Regions Act, 2022</i> as it pertains to this report.

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

Sincerely,

Dan Minkin
Heritage Planner
dan.minkin@ontario.ca

Copied to: Shu He, York Region
Joseph Manalo, York Region
Tom Casher, GHD
Rachelle Plourde, GHD
Ray Cantwell, Jacobs
Jasmine Biasi, Jacobs
Lara Wood, TMHC
Josh Dent, TMHC
John Sleath, ASI
Karla Barboza, MCM

Ministry of the Environment,
Conservation and Parks

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

Office of the Minister

Bureau du ministre

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777, rue Bay, 5^e étage
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357-2023-1904

October 25, 2023

Ms. Erin Mahoney, M.Eng.
Commissioner of Public Works
The Regional Municipality of York
Email: erin.mahoney@york.ca

Dear Ms. Mahoney:

Thank you for submitting the draft York Region Sewage Works Project report in response to my predecessor's August 28, 2023, letter.

I also appreciate receiving the two interim consultation reports.

I look forward to the upcoming briefing by York and Durham Regions on the draft project report and the submission of the final project report by October 31, 2023.

We appreciate York Region's commitment to work effectively and collaboratively to implement the York Region Sewage Works Project and other projects to support growth in the region.

Thank you again for writing.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrea Khanjin".

Andrea Khanjin
Minister of the Environment, Conservation and Parks

October, 26, 2023

Tom North
Director, Climate Change Programs Branch
Ministry of Environment, Conservation and Parks
Fergus Block, 10th Floor
77 Wellesley St. W.
Toronto, ON , M7A 2T5

Attention: Tom North, Director, Climate Change Programs Branch

Dear Tom North:

Re: York Region Sewage Works Project Report - Regions Response to MECP Comments

Thank you for participating in the development of the Draft Project Report for the York Region Sewage Works project and for your team's comments received throughout the Ministry of Environment, Conservation and Parks' Project Report review period.

York and Durham Regions have considered the Ministry's comments as part of finalizing the Project Report. Responses to your comments are included in Attachment 1.

We look forward to continuing to collaborate with the Ministry team for the Minister's approval of this critical infrastructure project. If you have any questions, please respond to the undersigned.

Sincerely,

Shu He, P.Eng., PMP
Manager, Engineering, Capital Delivery, Public Works
Phone: 1-877-464-9675 ext. 75124, Email: shu.he@york.ca

Attachment (1): MECP Comments and Regions Responses

Cc: Pina Accardi, Director (A), Capital Delivery, Public Works, York Region
Aaron Christie, Engineering Planning and Studies, Durham Region
Tom Casher, Project Manager, GHD
Katrina McCullough, Senior Community Engagement Specialist and Environmental Planner, GHD
Tom Mahood, Project Manager, Jacobs
Ray Cantwell, Project Manager, Jacobs

Attachment 1: MECP Comments and Regions Responses

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
October 4, 2023 Email	1	<p>Are you able to provide a map of the Duffin Creek WPCP service area (including all areas in both York and Durham serviced by the WPCP)?</p> <ul style="list-style-type: none"> - Please also confirm if there are any changes to the service area as a result of the York Sewage Works Project. 	<p>Update to Chapter 1 of Project Report.</p> <p>Two new figures have been added to the Project Report to show the Duffin Creek WPCP service area. The draft figure for the York Region service area has been attached and the figure for the Durham Region service area is being prepared.</p> <p>There are no changes to the Duffin Creek WPCP service area as a result of the York Sewage Works Project. No further clarification has been included within the Project Report to address this service area question.</p>
October 4, 2023 Email	2	<p>Where, when, and how much population can be unlocked over time, particularly prior to 2031?</p>	<p>No change to Project Report.</p> <p>The sewage servicing capacity of the existing York Durham Sewage System has been assigned to local municipalities to the year of 2026. Each local municipality is responsible for allocating assigned sewage servicing capacity based on the status of development in their communities.</p> <p>Pending Provincial approval of the York Region Sewage Works Project, additional sewage servicing capacity could be available for assignment among applicable local municipalities upon completion of the critical components of the project. It is anticipated that a total of 25,000 persons of additional servicing capacity for Aurora, Newmarket and East Gwillimbury will be generated prior to 2031.</p>
October 4, 2023 Email	3	<p>Additional details on how population forecasts and flow estimates were derived?</p>	<p>Update to Chapter 3 of Project Report.</p> <p>Refer to Chapter 3, comments 14, 15, and 16 for additional details on population forecasts and flow estimates.</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
October 4, 2023 Email	4	Please provide Conceptual Drawings for existing sewage pumping stations, and Yonge Street Trunk Sewer Rehabilitation (component Y1-B)?	<p>Update to Chapter 4, 5 and 6 of Project Report.</p> <p>Existing Sewage Pumping Stations - Descriptions of existing pumping station upgrades are included in each Report section within Chapters 4 and 5 for the associated project. Upgrades to existing stations are conceptualized to be predominantly within the existing property and include pump replacements and upgrades of existing components as required. References within the report to drawings that are not provided have been removed.</p> <p>Yonge Street Sewer Rehabilitation – At this time the extent of the rehabilitation is not known as it will be defined by field investigations and confirmation of conditions. References to supplied drawings for Yonge Street Sewer Rehabilitation have been removed from the Project Report.</p>
October 4, 2023 Email	5.	<p>Thank you for previously providing the RWIA to MECP. Please also provide the following for MECP reference, as referenced by the Draft Project Report:</p> <ul style="list-style-type: none"> a. “Natural Environment Existing Conditions and Impact Assessment Report, Part 1 (Existing Conditions)” b. Archaeological Assessments c. Updated Model outputs mapping (flows, capacities, Hydraulic Grade Lines) 	<p>Update to Project Report.</p> <ul style="list-style-type: none"> a) The Natural Environment Existing Conditions and Impact Assessment Report was prepared to inform the York Region Sewage Works Project Report. Relevant information from this document is included in the Project Report. Reference to this report to be removed from the Project Report. b) Cultural Heritage Reports were provided to Tom North MECP on September 17, 2023. Final archaeological reports can be provided to the MECP once available. c) The Region’s modeling team can meet with a focus group from MECP to review specific areas of interest regarding hydraulic modeling. The hydraulic modeling work was used to help develop the conceptual designs. The model outputs will not be included in the Project Report or provided for the Ministry or another party’s review. The hydraulic grade line will be prepared during detailed design.

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
October 11, 2023 Email	6	<p>Chapter 1:</p> <p>Wording is inconsistent with language used in the Act; York to consider using consistent wording and quoting the Act directly. E.g., Following wording inconsistent with Act: “The Regional Municipality of York (York Region) and The Regional Municipality of Durham (Durham Region) to provide wastewater service through the York Region Sewage Works Project to meet provincially approved growth forecasts in the towns of Aurora, East Gwillimbury and Newmarket.</p>	<p>Update to Chapter 1 of Project Report.</p> <p>First paragraph of Chapter 1 to be removed and replaced with the following:</p> <p>On November 28, 2022, the Ontario government passed the <i>More Homes Built Faster Act, 2022</i> (Bill 23). This legislation supports the government's long-term strategy to increase housing supply and provide viable housing options. Schedule 10, the <i>Supporting Growth and Housing in York and Durham Regions Act, 2022</i> (the Act), was introduced as part of Bill 23. The Act requires The Regional Municipality of York (York Region) and The Regional Municipality of Durham (Durham Region) to provide wastewater service through the York Region Sewage Works Project. As defined within Part III, Section 3 (2) of the Act, the York Region Sewage Works Project must:</p> <ul style="list-style-type: none"> (a) Have sufficient capacity to meet the total combined average daily wastewater flows forecasted to flow to the Duffin Creek Water Pollution Control Plant and the Water Reclamation Centre in 2051 in figures 2.1 and 2.2 of Appendix A to the 2022 York Region Water and Wastewater Master Plan; (b) Include improvements and upgrades to the YDSS North system to accommodate the flows described in clause (a); (c) Include improvements and upgrades to the YDSS Central system, which, at a minimum, consist of upgrades and improvements to the Yonge Street trunk sewer between Bloomington Road and 19th Avenue to accommodate the flows described in clause (a); (d) Meet all prescribed timelines for the development, construction and operation of all or part of the

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
			<p>project;</p> <p>(e) Improve, enlarge and extend the York Durham Sewage System in an efficient and cost-effective manner; and</p> <p>(f) Be developed, constructed and operated in accordance with the regulations, if any.</p>
October 11, 2023 Email	7	<p>Chapter 1:</p> <p>Project Area - This section provides a figure of the components of the project. A figure illustrating the extent of the Duffin Creek WPCP service area will also be beneficial, as it shows the extent of the population served and helps define the Primary Trunk service area in Durham.</p>	<p>Update to Chapter 1 of Project Report.</p> <p>Refer to response to comment number 1.</p>
October 11, 2023 Email	8	<p>Chapter 1:</p> <p>Confirm if the service area changes because of the York Region Sewage Works Project?</p>	<p>No change to Project Report.</p> <p>Refer to response to comment number 1.</p>
October 11, 2023 Email	9	<p>Chapter 2:</p> <p>Please consider showing the locations of the Existing SPSs on the figures.</p>	<p>No change to Project Report.</p> <p>Intent of the information within Chapter 2 is to provide an overview. Existing sanitary pumping stations are highlighted on the figures provided within the respective chapters for each pumping station.</p>
October 11, 2023 Email	10	<p>Chapter 2:</p> <p>Please consider showing the preferred location for new SPSs on the figures (see Chapters 4 and 5 Comments/Questions)</p>	<p>No change to Project Report.</p> <p>Intent of the information within Chapter 2 is to provide an overview and general study area for the new pumping stations. While potential locations and associated impacts assessment for alternative locations of each new SPS are discussed within Chapters 4 and 5, and the design drawings, further investigation, property acquisition and agency consultation during detailed design are required to determine the preferred location for each new SPS.</p>
October 11, 2023 Email	11	<p>Chapter 2:</p> <p>Alternative locations (up to 3) for the new SPSs in</p>	<p>No change to Project Report.</p> <p>See response to comment number 10.</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		East Gwillimbury (Chapter 4) and in Aurora and Newmarket (Chapter 5), while a preferred solution is selected for new SPSS in Durham (Chapter 8), please consider selecting/illustrating a preferred location for all new SPSS	
October 11, 2023 Email	12	Chapter 2: Please consider showing the preliminary locations for the shafts on figures (see Chapters 4, 5 and 6 Comments/Questions).	No change to Project Report. The intent of the information within Chapter 2 is to provide an overview and general study area for the trunk sewers. The full corridor was assessed, and shafts may be located anywhere within this corridor. Conceptual shaft locations have been identified in the conceptual design drawings. Number of shafts and locations will be determined during detailed design based on more detailed field investigation and availability of property.
October 11, 2023 Email	13	Chapter 2: Please consider being consistent in terms of Study Areas on the Figures (see comments in subsequent Chapters). Some show a local study area (200 m); others show a more Regional Study Area.	No change to Project Report. This is a function of where each design was at when the Act was issued. Some of the projects were already in an existing EA phase and a larger study area had already been defined consistent with a Class EA approach. As discussed in the October 11 th meeting, a 200m study area was considered adequate for the impacts assessment for both new pumping stations and trunk sewers.
October 11, 2023 Email	14	Chapter 3: There is very little background information on growth projections and how future flows were calculated. To better understand how growth projections were developed and future flows estimated, please provide the following: <ul style="list-style-type: none"> - Breakdown of existing population and future flow estimates by municipality (include only the population serviced by the YDSS). 	No change to Project Report. York Region previously shared with the Ministry the population and long-range forecasts for East Gwillimbury, Newmarket and Aurora on January 26, 2023. Durham Region also submitted their updated population forecasts as it pertains to Durham Region's service areas within the York Durham Sewage System (YDSS).
October 11, 2023 Email	15	Chapter 3:	Update to Chapter 3 of Project Report.

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		<p>There is very little background information on growth projections and how future flows were calculated. To better understand how growth projections were developed and future flows estimated, please provide the following:</p> <ul style="list-style-type: none"> - Historical flow data to support the 350 L/cap/d wastewater flow rates. - An explanation of how future wastewater flows in the Duffin Creek WPCP were estimated (I.e., formula used to calculate). - How was employment growth considered in future wastewater flow estimates. 	<p>a. Chapter 3 Section 3.3.3 second paragraph was updated with the following text:</p> <p>“The wastewater generation rates used to project future wastewater flow rates at the Duffin Creek WPCP were based on a review of historical per capita flows. As shown in Table 3.4, a per capita flow rate of 350 L/cap/day was used to forecast the future ADF at Duffin Creek WPCP. This value is a reduction as compared with the per capita flow of 406 L/cap/day used for the Stage 3 liquids expansion for Duffin Creek. The per capita flow rate used in the Project Report accounts for uncertainties surrounding the historical reported sewershed populations and uncertainties in planning projections”</p> <p>This methodology is also described in the 2022 York Region Water and Wastewater Master Plan (York Region, 2021).</p> <p>b. Chapter 3 Section 3.4 was updated with the following text:</p> <p>The annual flow for each year was estimated as follows:</p> $Flow_{year} = Total\ Population\ Projected_{year} * 350 \frac{L}{cap * day}$ <p>c. For the linear infrastructure we accounted for residential and employment growth separately. For the wastewater treatment system, it is a blended rate, and therefore it is included in the 350 L/cap/d.</p>
October 11, 2023 Email	16	<p>Chapter 3:</p> <p>There is very little background information on growth projections and how future flows were calculated. To better understand how growth</p>	<p>No change to Project Report.</p> <p>Chapter 9 presents a figure that graphs population growth and flow increase over time for the Duffin Creek WPCP.</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		<p>projections were developed and future flows estimated, please provide the following:</p> <ul style="list-style-type: none"> - It would be beneficial to provide the figure graphing population and flow increases over time in this section. 	
October 11, 2023 Email	17	<p>Chapter 3:</p> <p>Were the York/Durham's water efficiency and I/I control programs considered in estimated future wastewater demands and treatment needs?</p>	<p>Update to Chapter 3 of Project Report.</p> <p>The following sentence has been added to the end of the second paragraph in Section 3.3.3:</p> <p>"York Region and Durham Region's water efficiency and inflow and infiltration programs were considered in estimating future wastewater generation rates at the Duffin Creek WPCP."</p>
October 11, 2023 Email	18	<p>Chapter 4:</p> <p>Natural Environment Overview (Section 4.3) Not very much description of natural features in the study area; "Natural Environment Overview" Section would benefit from providing more than just Wellhead Protection Area (WHPA) map; currently there is only a figure showing locations of wellheads. Perhaps a figure showing ecological land classifications and an overall description of the natural features in the area, particularly noting any sensitive areas would be beneficial.</p>	<p>Update to Project Report.</p> <p>Site specific figures have been prepared and included within the existing conditions description of each project. The intent of putting some information upfront is to avoid duplicating the same figure/text throughout the document. The first sentence of the Natural Environment Overview will be removed and replaced with:</p> <p>"To avoid repetition within this chapter, the well head protection areas (WHPA across all projects are presented in this section instead of individually for each project."</p> <p>"</p>
October 11, 2023 Email	19	<p>Chapter 4:</p> <p>Three (3) existing pumping stations require upgrades/expansion in East Gwillimbury:</p> <ul style="list-style-type: none"> - Y6 2nd Concession SPS Upgrades - Y7 Queensville West SPS Upgrades - Y8 Holland Landing SPS Upgrades <p>Please clarify the existing capacities of these SPSs</p>	<p>Update to Chapter 4 of Project Report.</p> <p>Existing capacities have been provided, as defined within the current ECAs. The upgrade/expansion work for these 3 SPSs will be within the existing buildings and footprints of the facilities.</p>

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		and the upgrade/expansion works required. For instance, will the works be in existing structures, or will new structures be needed?	
October 11, 2023 Email	20	<p>Chapter 4:</p> <p>Upgrades to the 3 Existing Pumping Stations (Sections 4.5, 4.6 and 4.7)</p> <p>Will York be providing conceptual drawings of the existing SPSs, with the planned upgrades/expansions shown on the drawings?</p>	<p>No change to Project Report.</p> <p>Conceptual drawings of the existing SPSs will not be provided. Work is predominately within the limits of the existing buildings.</p>
October 11, 2023 Email	21	<p>Chapter 4:</p> <p>Upgrades to the 3 Existing Pumping Stations (Sections 4.5, 4.6 and 4.7)</p> <p>The impact and mitigation tables for the 3 SPSs upgrade/expansion projects do not include an overview of potential impacts to archaeological/cultural heritage features. For completeness, the Region may wish to include, even if impacts are not expected.</p>	<p>No change to Project Report.</p> <p>As there are no expected impacts to archaeological/cultural heritage features from these projects, information on impacts and mitigation is not included. This is consistent with all items where there is no impact – it is not included within the table.</p>
October 11, 2023 Email	22	<p>Chapter 4:</p> <p>Upgrades to the 3 Existing Pumping Stations (Sections 4.5, 4.6 and 4.7)</p> <p>Page 19, York notes that a full list of SARs, terrestrial species, aquatic species, and vegetation community specific to the study area are available in the document “Natural Environment Existing Conditions and Impact Assessment Report, Part 1 (Existing Conditions)” prepared by GHD, dated September 2023, which can be made available upon request.</p> <p>Can York provide this Report to MECP? Does York</p>	<p>Update to Chapter 4 of Project Report.</p> <p>This report was prepared to inform the Project Report and not ready for review by MECP or a third party. Reference to this report has been removed from the Project Report.</p>

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		plan to provide this and other Parts of the report to interested parties and Indigenous Communities if asked? Does York plan to provide this and other Parts of the report to interested parties and Indigenous Communities if asked.	
October 11, 2023 Email	23	<p>Chapter 4:</p> <p>Construction of 2 New Pumping Stations (Sections 4.8 and 4.9)</p> <p>Why is “Y9-A Newmarket East SPS” in Chapter 4 (Infrastructure located in East Gwillimbury) rather than Chapter 5 (Infrastructure located in Newmarket) when it is located in Newmarket?</p>	<p>No change to Project Report.</p> <p>Municipal boundary between East Gwillimbury and Newmarket is south of Green Lane, depending on final location of Newmarket East SPS it could be located in East Gwillimbury or Newmarket. Project to remain in Chapter 4.</p>
October 11, 2023 Email	24	<p>Chapter 4:</p> <p>Construction of 2 New Pumping Stations (Sections 4.8 and 4.9)</p> <p>Appendix A shows 3 locations for each of the above proposed SPSs. Was one location preferred over the others? If so, please explain in the text. How was 200 m study area defined?</p> <p>If all 3 locations are considered viable at this stage, please provide more details in the text, such as:</p> <ul style="list-style-type: none"> - Showing the 3 potential locations on the study area figures to better illustrate how the 200 m study area was established. <p>Explaining why 3 locations are being considered so the reader can clearly understand that it isn't until the detailed design stage that the location can be confirmed.</p>	<p>Update to Chapter 4, 5, and 6 of Project Report.</p> <p>A sentence has been added to accompany the introduction of each study area in Chapters 4, 5 and 6 to state:</p> <ul style="list-style-type: none"> - For pumping station upgrades a study area of approximately 200 metres surrounding the existing pumping station was applied. - For linear projects, a study area of approximately 200 metres surrounding the centerline of the right of way was applied. - For new pumping stations a study area of approximately 200 metres wide was applied surrounding the potential site for the pumping station, however the new pumping station could be located anywhere within this study area or overlapping linear project study areas. In some instances the study area for the new pumping stations was increased to accommodate for alternative sites. <p>At this time design and consultation with private property owners and regulatory agencies have not progressed</p>

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			<p>sufficiently to be able to explicitly select a preferred option.</p> <p>The 200m study area was not consistently defined as it relates to the new pumping station sites. A 200m study area was defined for the new pumping stations, where the schedule accommodated this work as property constraints impact the ability to locate the pumping station within the originally planned property area, the study area was expanded. However in some instances the schedule could not accommodate a change to the study area and the pumping station was located within the original 200m study area, within an expanded limit to be 200m surrounding the new property.</p> <p>The Property Requirements sections (4.8.3.4 and 4.9.3.4) state: The proposed infrastructure concept will be located on property that is not currently owned by York Region, and therefore GHD recommends York Region undertake a property selection process to select a final site for the SPS”</p> <p>Sections 4.8.3.4 and 4.9.3.4 also state: The proposed property locations and requirements for construction are conceptual only. Details related to property easement requirements will be confirmed during detailed design.</p>
October 11, 2023 Email	25	<p>Chapter 4:</p> <p>Construction of 2 New Pumping Stations (Sections 4.8 and 4.9)</p> <p>The impact and mitigation tables for the 2 new SPSs do not include an overview of potential impacts to archaeological/cultural heritage features. For completeness, the Region may wish to include,</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 21.</p>

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		even if impacts are not expected.	
October 11, 2023 Email	26	<p>Chapter 4:</p> <p>New Gravity Sewers and Forcemains (Section 4.10, 4.11, 4.12, and 4.13)</p> <p>Why is “Y9-B Newmarket East SPS Forcemains” in Chapter 4 (Infrastructure located in East Gwillimbury) rather than Chapter 5 (Infrastructure located in Newmarket) when it is located in Newmarket?</p>	<p>No change to Project Report.</p> <p>Municipal boundary between East Gwillimbury and Newmarket is south of Green Lane.</p> <p>Refer to above response on Chapter 4, comment number 23.</p>
October 11, 2023 Email	27	<p>Chapter 4:</p> <p>New Gravity Sewers and Forcemains (Section 4.10, 4.11, 4.12, and 4.13)</p> <p>The preferred construction method for the 2nd Concession North Gravity Sewer is open cut. Please confirm that trenchless will be considered to cross critical infrastructure.</p>	<p>No change to Project Report.</p> <p>This work involves removing the existing forcemain and relaying within the same horizontal alignment, with a new vertical alignment to maintain a slope sufficient for gravity conveyance. A trenchless solution is not feasible as it cannot be installed within the existing alignment.</p>
October 11, 2023 Email	28	<p>Chapter 4:</p> <p>New Gravity Sewers and Forcemains (Section 4.10, 4.11, 4.12, and 4.13)</p> <p>Referred to forcemains as gravity sewer (pg. 139)</p>	<p>Update to Chapter 4 of Project Report.</p> <p>First sentence of first paragraph has been removed and replaced with:</p> <p>“Conceptual design for these forcemains were based generally on flow rates and design criteria as described in Chapter 3.”</p>
October 11, 2023 Email	29	<p>Chapter 4:</p> <p>New Gravity Sewers and Forcemains (Section 4.10, 4.11, 4.12, and 4.13)</p> <p>Potential shaft locations have been identified and shown on the drawings in Appendix A, however the potential number, size and location of the shafts are not discussed. Given that work has been done to</p>	<p>No change to Project Report.</p> <p>The impact assessment and mitigation measures were completed for the study corridor instead of individual shaft locations. While conceptual shaft locations are shown in the drawings, the number of shafts, sizes and locations will be determined during detailed design based on further field investigation, studies and availability of properties.</p>

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		identify preliminary shaft locations and that the location of the shafts is part of the plan for mitigating impacts, York might wish to consider a brief description of the potential number of shafts, study area for each shaft, size and why they were selected (with the understanding that the exact size, number, locations will be confirmed during detailed design).	
October 11, 2023 Email	30	Chapter 4: Capital Costs (Section 4.14) Please consider providing more details on the assumptions used in costing the shafts; e.g., number, size of components (see sections 7.3 and 8.3)	Updates to Chapters 4, 5 and 6 of Project Report. Capital cost section in Chapters 4, 5 and 6 have been updated to include further assumptions for estimating purposes on the number of shafts, pipe diameter and lengths to more closely align with the cost estimating sections of Chapter 7 and 8.
October 11, 2023 Email	31	Chapter 4: Implementation Plan (Section 4.15) Refers to an 18-month land acquisition schedule; York might wish to make note that the Act allows for fast-tracking land acquisition if required.	No change to Project Report. York Region has still identified 18 months as a minimum estimated duration for the land acquisition process as no orders to designate land as project land have been made at this time.
October 11, 2023 Email	32	Chapter 4: Implementation Plan (Section 4.15) The delivery schedule does not show commencement and completion dates; Although the start and completion dates are identified in Chapter 11, York may wish to identify the commencement and completion dates in this Chapter as well.	No change to Project Report. The intent of the timeline is to show the estimated duration in years for the works. The intent of Chapter 11 is to speak to sequencing and phasing, and assigns calendar dates to the works.
October 11, 2023 Email	33	Chapter 4: Appendix A - Drawings - Drawing C1-D225 refers to the trunk as the East Gwillimbury Trunk Sewer. Consider	Update to Appendix A of Project Report. The drawing numbers and cross references have been double checked and numbers updated as applicable since the submission of the draft Project Report.

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		<p>changing name to 2nd Concession South Gravity Sewer on drawing for consistency.</p> <ul style="list-style-type: none"> - Two drawings have same reference number C1-D229. 	
October 11, 2023 Email	34	<p>Chapter 4:</p> <p>Appendix A - Drawings</p> <p>Please consider including the hydraulic grade line (HGL) on drawings (in Chapter 4 and/or Appendix A).</p>	<p>No change to Project Report.</p> <p>The hydraulic modeling work was used to help develop the conceptual designs. Depths of some pieces of infrastructure could vary up to over 20 metres pending results of geotechnical investigations. Given the conceptual level of the design, the model outputs will not be included in the Project Report or provided for the Ministry or a third party's review at this time. The hydraulic grade line will be prepared during detailed design.</p>
October 11, 2023 Email	35	<p>Chapter 5:</p> <p>Natural Environment Overview (Section 5.3)</p> <p>Not very much description of natural features in the study area; "Natural Environment Overview" Section would benefit from providing more than just Wellhead Protection Area (WHPA) map; Currently there is only a figure showing locations of wellheads.</p> <p>Perhaps a figure showing ecological land classifications and an overall description of the natural features in the area, particularly noting any sensitive areas would be beneficial.</p>	<p>Update to Project Report</p> <p>See response to Chapter 4, comment number 18.</p>
October 11, 2023 Email	36	<p>Chapter 5:</p> <p>Upgrades to the 2 Existing Pumping Stations (Sections 5.6 and 5.7)</p> <p>Please clarify the existing and planned capacities of these SPSs and the upgrade/expansion works</p>	<p>Update to Chapter 5 of Project Report.</p> <p>See response to Chapter 4, comment number 19.</p>

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		required. For instance, will the works be in existing structures, or will new structures be needed?	
October 11, 2023 Email	37	<p>Chapter 5:</p> <p>Upgrades to the 2 Existing Pumping Stations (Sections 5.6 and 5.7)</p> <p>Will York be providing conceptual drawings of the existing SPSs, with the planned upgrades/expansions shown on the drawings?</p>	<p>No change to Project Report</p> <p>See response to Chapter 4, comment number 20.</p>
October 11, 2023 Email	38	<p>Chapter 5:</p> <p>Upgrades to the 2 Existing Pumping Stations (Sections 5.6 and 5.7)</p> <p>The impact and mitigation tables for the 2 SPSs upgrade/expansion projects do not include an overview of potential impacts to archaeological/cultural heritage features. For completeness, the Region may wish to include, even if impacts are not expected.</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 21.</p>
October 11, 2023 Email	39	<p>Chapter 5:</p> <p>Construction of 2 New Pumping Stations (Sections 5.5 and 5.8)</p> <p>Appendix B shows 3 potential locations for each of the above SPSs. Was one location preferred over the others at this stage. If so, please explain in the text. How was the 200 m study area defined? If all 3 locations are considered viable at this stage, please provide more details in the text, such as:</p> <ul style="list-style-type: none"> - Showing the 3 potential locations on the study area figures to better illustrate how the 200 m study area was established. - Explaining why 3 locations are being considered in the text so the reader can 	<p>Update to Chapter 5 of Project Report.</p> <p>Refer to above response on Chapter 4, comment number 24.</p>

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		clearly understand that it isn't until the detailed design stage that the location can be confirmed.	
October 11, 2023 Email	40	<p>Chapter 5:</p> <p>Construction of 2 New Pumping Stations (Sections 5.5 and 5.8)</p> <p>The impact and mitigation tables for the 2 new SPSs do not include an overview of potential impacts to archaeological/cultural heritage features. For completeness, the Region may wish to include, even if impacts are not expected.</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 21.</p>
October 11, 2023 Email	41	<p>Chapter 5:</p> <p>New Gravity Sewers and Force mains (Section 5.9, 5.10, 5.11, 5.12 and 5.13)</p> <p>Potential shaft locations have been identified and shown on the drawings in Appendix B, however the potential number, size and location of the shafts are not discussed in the text. Given that work has been done to identify preliminary shaft locations and that the location of the shafts is part of the plan for mitigating impacts, York might wish to consider a brief description of the potential number of shafts, study area, size and why they were selected in the text (with the understanding that the exact size, number, locations will be confirmed during detailed design).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 29.</p>
October 11, 2023 Email	42	<p>Chapter 5:</p> <p>Capital Costs (Section 5.15)</p> <p>Please provide more details used in costing the shafts; e.g., number, size of components. (see section 7.3 & 8.3)</p>	<p>Update to Chapter 5 of Project Report.</p> <p>Refer to above response on Chapter 4, comment number 30.</p>

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October 11, 2023 Email	43	<p>Chapter 5:</p> <p>Implementation Plan (Section 5.15)</p> <p>Refers to an 18-month land acquisition schedule; York might wish to make note that the Act allows for fast-tracking land acquisition if required.</p>	<p>No change to Project Report.</p> <p>See response to Chapter 4, comment number 31.</p>
October 11, 2023 Email	44	<p>Chapter 5:</p> <p>Implementation Plan (Section 5.15)</p> <p>The delivery schedule does not show commencement and completion dates; Although the start and completion dates are identified in Chapter 11, York may wish to show commencement and completion dates in this Chapter as well.</p>	<p>No change to Project Report.</p> <p>See response to Chapter 4, comment number 32.</p>
October 11, 2023 Email	45	<p>Chapter 5:</p> <p>Appendix B - Drawings</p> <p>Confirm drawing reference numbers.</p>	<p>Update to Appendix B of Project Report.</p> <p>The drawing numbers and cross references have been double checked and numbers updated as applicable since the submission of the draft Project Report.</p>
October 11, 2023 Email	46	<p>Chapter 5:</p> <p>Appendix B - Drawings</p> <p>Please consider including the hydraulic grade line (HGL) on the Drawings (in Chapter 5 and/or Appendix B).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 34.</p>
October 11, 2023 Email	47	<p>Chapter 6:</p> <p>Overview (Section 6.1)</p> <p>Consider reminding the reader that the YDSS also services Durham Region (Pickering and Ajax).</p>	<p>Update to Chapter 6 of Project Report.</p> <p>A new sentence has been added following the first sentence of the first paragraph of Chapters 4, 5 and 6:</p> <p>“The YDSS also services the City of Pickering and the Town of Ajax in the Regional Municipality of Durham (Durham Region).”</p>

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October 11, 2023 Email	48	<p>Chapter 6:</p> <p>Natural Environment Overview (Section 6.3)</p> <p>Not very much description of natural features in the study area; Only a figure showing locations of wellheads.</p> <p>Perhaps a figure showing ecological land classifications and an overall description of the natural features in the area, particularly noting any sensitive areas would be beneficial.</p>	<p>Update to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 18.</p>
October 11, 2023 Email	49	<p>Chapter 6:</p> <p>Leslie Street Trunk Sewer (Phases 1 & 2) and Bloomington Interceptor Sewer New Gravity Sewers (Section 6.5) Study Area (Section 6.5.1)</p> <p>The study area is defined based by a 200 m boundary from the preferred Leslie Street Trunk Sewer alignment. However, for the Markham Collector Twinning (Chapter 7) and the Primary Trunk Twinning (Chapter 8) the study areas were much broader to accommodate the area looked at for considering and selecting the preferred alignment.</p> <ul style="list-style-type: none"> - York did a lot of work confirming why Leslie Street was the preferred alignment. York may wish to consider presenting the fact that alternative routes were reviewed in a broader study area, and that the Leslie Street Trunk Sewer alignment was selected because of less impacts to social, cultural, natural environment, etc. 	<p>No change to Project Report.</p> <p>Alternative routes analysis are not required in accordance with the Act.</p> <p>Refer to above response on Chapter 4, comment number 29, re: providing shaft locations within the main body of the report.</p>

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		<p>Consider presenting 2 study areas – Regional (route selection study area) and the local (200m boundary) for assessing impacts.</p> <p>Consider showing the preliminary locations of the shafts on the figure in the main body of the Report.</p>	
October 11, 2023 Email	50	<p>Chapter 6:</p> <p>Conceptual Design (Section 6.5.3)</p> <p>Consider providing more information on the preliminary location and sizing of the shafts. In addition, consider describing the factors considered in selecting shaft locations (e.g., operational and construction requirements, estimated tunnel drive length, existing utilities, traffic impacts, odour considerations, ROW, avoiding natural areas, etc.).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 29.</p>
October 11, 2023 Email	51	<p>Chapter 6:</p> <p>Yonge Street Trunk Sewer Rehabilitation</p> <p>The impacts on Shafts 1, 2 and 3 are discussed throughout the Chapter. However, the figures do not show the location of these shafts.</p> <p>Consider showing the preliminary locations of the shafts There is no conceptual design drawing for the Yonge Street Trunk Sewer Rehabilitation in Appendix C. Will a drawing be provided in the Final Report?</p>	<p>No change to Project Report.</p> <p>Refer to above response in comment number 4.</p>
October 11, 2023 Email	52	<p>Chapter 6:</p> <p>Yonge Street Trunk Sewer Rehabilitation</p> <p>It is recognized that the rehabilitation work cannot commence until the Leslie Street Trunk Sewer and the Bloomington Interceptor Sewer is constructed to divert flows. Based on the hydraulic analysis, is</p>	<p>No change to Project Report.</p> <p>All capacity has been assigned and there is no new capacity available until the new system is constructed.</p>

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		<p>there sufficient capacity in the existing Yonge Street Trunk Sewer to convey flows without surcharging until the Leslie Street Trunk Sewer can be constructed? What are the risks?</p>	
October 11, 2023 Email	53	<p>Chapter 6:</p> <p>Yonge Street Trunk Sewer Rehabilitation</p> <p>Can you provide details on the staging of the rehabilitation work and the twin (Leslie Street Trunk/Bloomington Interceptor) given the existing condition of the pipe? What are the risks given the existing condition of the Yonge Street Trunk Sewer?</p>	<p>No change to Project Report.</p> <p>The Yonge Street Trunk Sewer currently suffers from medium to extensive surface wear due to H₂S induced corrosion along the entire length of the highlighted section. This is due in large part to high velocities, and multiple drop connections and in-line drops, some up to 30m deep, that create turbulent flow conditions conducive to the release of H₂S gas. Population growth and increased flow has the potential to exacerbate this issue, accelerating the generation of H₂S gas, and subsequently H₂S induced corrosion. Left unchecked, this corrosion results in a reduction in sewer wall thickness, which can have implications on the overall structural capacity of the sewer pipes.</p> <p>The repairs of any surface or structural deficiencies caused by this corrosion is made more difficult by the lack of redundancy in this area. Given the existing condition and faster degradation caused by accumulation of H₂S gas, the existing sewer needs to be rehabilitated in 15 years to avoid major service disruption and environmental impacts. It is highly recommended that twinning work be completed in advance of the rehabilitation work to reduce/eliminate flow, and subsequently reduce bypass costs, creating the opportunity for more robust, fulsome, mature rehabilitative technologies.</p>
October 11, 2023 Email	54	<p>Chapter 6:</p> <p>Costing (Section 6.7)</p> <p>Please consider providing more details on the assumptions used in costing the shafts; e.g.,</p>	<p>Update to Chapter 6 of Project Report.</p> <p>Refer to above response on Chapter 4, comment number 30.</p>

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		number, size of components Provide costs in similar format to sections 7.3/8.3	
October 11, 2023 Email	55	<p>Chapter 6:</p> <p>Appendix C - Drawings</p> <p>Please consider showing the hydraulic grade line (HGL) on the Drawings (in Chapter 6 and/or Appendix C).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 34.</p>
October 11, 2023 Email	56	<p>Chapter 7:</p> <p>Comprehensive review of Markham Collector Twinning; reasons why preferred route was selected, details on conceptual design presented including potential locations and sizing of shaft locations, impacts and mitigation measures identified. In addition, cost, permits/approvals, and schedule were described. Conceptual drawings provided in Appendix D, show plan and profile, shaft locations, existing infrastructure constraints.</p>	<p>No change to Project Report</p> <p>A response to the comment is not required.</p>
October 11, 2023 Email	57	<p>Chapter 7:</p> <p>The study area is inconsistent with the definition of the study area in previous Chapters 4, 5 & 6 (i.e., 200 m boundary). Although it is understood the study area was defined for the route selection process, for consistency purposes the Region may wish to consider defining 2 study areas – Regional (route selection study area) and the local (200m boundary) for assessing impacts.</p>	<p>No change to Project Report</p> <p>This is a function of where each design was at when the Act was issued. The Primary Trunk Twinning EA project was already in an existing EA phase and a larger study area had already been defined consistent with a Class EA approach. The Markham Collector Twinning project took a similar approach where the route selection process defined the study area. The study area captured key features and constraints such as the Rouge River, the interaction with the existing Markham Collector, Highway 407, Highway 7 and existing sanitary and sewer networks.</p>

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October 11, 2023 Email	58	<p>Chapter 7:</p> <p>Please consider showing the hydraulic grade line (HGL) on the Drawings (in Chapter 7 and/or Appendix D).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 34.</p>
October 11, 2023 Email	59	<p>Chapter 8:</p> <p>Comprehensive review of Primary Trunk Twinning; reasons why alternative route was selected, details on conceptual design presented including potential locations and sizing of shaft locations, impacts and mitigation measures identified. In addition, cost, permits/approvals, and schedule were described. Conceptual drawings provided in Appendix E, show plan and profile, shaft locations, existing infrastructure constraints.</p> <p>Section also includes the following two new SPSs required by Durham Region:</p> <ul style="list-style-type: none"> ○ Pickering Parkway SPS ○ Squires Beach SPS <p>The following existing SPS will also be connected to the new the Primary Trunk Sewer via forcemain:</p> <ul style="list-style-type: none"> ○ Toy Avenue SPS ○ Bayly Street SPS ○ Jodrel SPS ○ Liverpool Rd SPS 	<p>No change to Project Report</p> <p>A response to the comment is not required.</p>
October 11, 2023 Email	60	<p>Chapter 8:</p> <p>The study area is inconsistent with the definition of the study area in previous Chapters 4, 5 & 6 (i.e., 200 m boundary). Although it is understood the study area was defined for the route selection</p>	<p>No change to Project Report</p> <p>This is a function of where each design was at when the Act was issued. The Primary Trunk Twinning EA was already in an existing EA phase and a larger study area</p>

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		process, for consistency purposes the Region may wish to consider defining 2 study areas – Regional (route selection study area) and the local (200m boundary) for assessing impacts.	had already been defined consistent with a Class EA approach. The study area was defined by the location of alternative trunk twinning routes and new sewage pumping stations.
October 11, 2023 Email	61	Chapter 8: Please confirm that the Duffin Creek WPCP service area is not increased from the current service area to accommodate additional lands serviced by the two new Durham SPSs.	No change to Project Report The Duffin Creek WPCP service area has not increased from its current service area due to the two new SPSs. The SPSs will be used to divert flows from existing Durham Region SPS and will accommodate proposed growth within the service area and associated additional flows.
October 11, 2023 Email	62	Chapter 8: Please confirm that these two new Durham SPSs are needed to support future growth within the YDSS service area?	No change to Project Report The Pickering Parkway Sanitary Sewage Pumping Station (D1) and the Squires Beach Sanitary Sewage Pumping Station (D2) are needed to support growth within the YDSS for several reasons relating to the planning and design of the proposed YDSS Primary Trunk sewer twin, including those noted below: <ul style="list-style-type: none"> - The proposed intensification related population growth will exceed the capacities of the existing local and sub-trunk sanitary sewers. The addition of new sanitary sewage pumping stations and connection points to the existing and future twinned YDSS Primary Trunk Sanitary Sewers will be required to increase pumping and conveyance capacity. - The locations of the new sanitary sewage pumping stations impacts the development of a preferred alignment for the YDSS Primary Trunk Twin as the planning will need to review,

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			recommend, and confirm these locations in order to define new connection points to both the existing and future Primary Trunk sanitary sewers.
October 11, 2023 Email	63	Chapter 8: Will these new pump stations be connected to both the new and existing trunks?	No change to Project Report Yes, Figures 8.17 and 8.18 in Chapter 8 present the proposed connections of the Pickering Parkway SPS and Squires Beach SPS to the existing and proposed Primary trunk sewers. The Pickering Parkway SPS and Squires Beach SPS are proposed to connect to the existing and proposed primary trunk via twin 1.2km long, 450mm diameter forcemains and twin 2.8km long, 900mm diameter forcemains, respectively. Isolation valve chambers will be required at the connection point to each trunk in order to provide flexibility to divert flows between the two.
October 11, 2023 Email	64	Chapter 8: Are these existing SPS and Forcemains considered part of the existing Primary Trunk Sewer? Are any other existing SPSs in Durham considered part of the Primary Trunk Sewer System?	No change to Project Report Yes, the 5 existing pump stations and forcemains (Finch/Liverpool SPS, Toy Avenue SPS, Bayly SPS, Jodrel SPS and Liverpool SPS) are all considered part of the existing Primary Trunk Sewer as they all connect prior to entering the plant. These pump stations will also become part of the proposed Primary trunk sewer twin to provide redundancy in the overall primary trunk system.
October 11, 2023 Email	65	Chapter 8: Please confirm if any upgrades or expansions are needed to these SPS to meet future wastewater flows in the YDSS service area.	No change to Project Report It is assumed that no upgrades or expansions are required to meet future wastewater flows in the service area at this time

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October 11, 2023 Email	66	<p>Chapter 8:</p> <p>Bayly St PS is not listed on the Figures 8.1, 8.4 and 8.5 in Primary Trunk Chapter, while described elsewhere; should it be added?</p>	<p>No change to Project Report</p> <p>The Bayly Street SPS is located outside of the identified study area for the project (see Figure 8.14 for location), however it will require a connection to the future Primary Trunk in order to create operational flexibility and redundancy between the two trunks. The SPS has been noted throughout the document for this reason, and connection information is detailed in Section 8.2.3.2.3 Connections to the Existing and Future Sewage Pumping Stations.</p>
October 11, 2023 Email	67	<p>Chapter 8:</p> <p>Finch Avenue SSPS (the 5th PS from Figure 1 in York 2021 Water and Wastewater Master Plan Appendix A.8) is not included in Chapter 8; should it be added?</p>	<p>No change to Project Report</p> <p>The location of this pumping station is upstream of the Valley Farm Road and Finch Intersection chamber where both the existing and future primary trunk begin (at the existing SEC chamber). It is understood that no additional connections will be required as the flows will already be conveyed downstream to the SEC chamber, and subsequently the existing/future primary trunks. This SPS is also located outside of the project study area.</p>
October 11, 2023 Email	68	<p>Chapter 8:</p> <p>Please consider showing the hydraulic grade line (HGL) on the Drawings (in Chapter 8 and/or Appendix E).</p>	<p>No change to Project Report.</p> <p>Refer to above response on Chapter 4, comment number 34.</p>
October 11, 2023 Email	69	<p>Chapter 9:</p> <p>Design Basis (Section 9.5)</p> <ul style="list-style-type: none"> - Consider using different terms than “ultimate build out” and “ultimate plant 	<p>Update to Chapter 9 of Project Report</p> <ul style="list-style-type: none"> - The ultimate build out terminology was introduced to note that the Duffin Creek WPCP and the outfall upgrade capacities were not strictly tied to the planning period. The capacity expansion is

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		<p>capacity". (i.e., the Duffin Creek WPCP will reach its capacity by approximately 2036 and must be expanded?) In identifying expansion capacity requirements, the capacity of the existing Influent PS and the Stage 3 capacity were considered.</p> <ul style="list-style-type: none"> ○ Ultimate build out/ultimate plant capacity terminology may be misinterpreted? - Table 9.4 Current Effluent Objectives and Limits for Duffin Creek WPCP <ul style="list-style-type: none"> ○ We believe that the E. coli objective in the existing ECA is 100 organisms per 100 mL monthly geometric mean density, and not 150 as specified in table. 	<p>limited by the hydraulic capacity of the Stage 1&2 and Stage 3&4 influent pumping stations. Text was revised across the Chapters in the Project Report to remove references to ultimate build-out and ultimate plant capacity.</p> <ul style="list-style-type: none"> - Yes, the objective is 100 organisms per 100 mL monthly geometric mean. Text revised accordingly.
October 11, 2023 Email	70	<p>Chapter 9</p> <p>Project Schedule (Section 9.8.3) Note that as part of the design a "Preferred Solution Study" will be undertaken early to make key decisions on technologies and processes for liquid and solids processes. Will this include a review of disinfection technologies, sludge treatment and biosolids management end-use options, as well?</p>	<p>No Change to Project Report.</p> <p>This is already addressed in Section 9.8.3.1, which states:</p> <p><i>"To advance the next phase of implementation planning for the capacity expansion, the Regions will initiate a detailed planning study to make key decisions on the technologies and processes for liquid and solid processes and develop a conceptual design and implementation plan for all major expansions"</i></p>
October 11, 2023 Email	71	<p>Chapter 10:</p> <ul style="list-style-type: none"> - What factors were considered when locating the outfall tunnel drop shaft on site? Are additional mitigation measures necessary as a result of construction of the deep drop shaft (e.g., shoreline stabilization and protection)? If so, are additional studies 	<p>Update to Chapter 10 of Project Report</p> <p>Alternative shaft locations were evaluated in the 2010 Outfall Environmental Assessment. The preferred shaft location selected in this assessment was carried forward as the proposed location for the new outfall. Further details were added in Chapter 10 section 10.8.2, as follows:</p>

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		and investigations necessary?	<p><i>“During the 2010 Outfall Class EA (detailed in section Error! Reference source not found.), three alternative shaft locations within the onshore area were evaluated. The evaluation criteria included ease of implementation, ability to use existing infrastructure, impacts on terrestrial environment, impacts on surrounding Species at Risk and Significant Habitats, geotechnical impacts, impacts to tourism and recreational uses of lakefront, risks to impact the community health and safety, worker health and safety and capital costs. The relative impacts for each alternative location were quantified. The location situated on the western side, as shown in Error! Reference source not found., was selected as the preferred shaft location due to its relative ease of implementation, most available space, and its low potential to impact terrestrial wildlife and habitat during construction”</i></p> <p>Shoreline hazard assessment was included as a requirement in Section 10.11.1 Future Desktop and Field Investigations.</p>
October 11, 2023 Email	72	<p>Chapter 11:</p> <p>Will there be any additional capacity for growth prior to 2031. If so, how much and where in the Duffin Creek WPCP service area?</p>	<p>No change to Project Report.</p> <p>See response to comment number 2.</p>
October 11, 2023 Email	73	<p>Chapter 11:</p> <p>Chapters 4-9 note that schedules are based on design-bid-build project delivery approach, with solely Chapter 6 noting some accelerated elements while still design-bid-build approach. Is there consideration for alternative project delivery (e.g., design-build) and associated effect on schedule?</p>	<p>No change to Project Report.</p> <p>The conventional design-bid-build contracting model is used for the purpose of the Project Report. Contract method (i.e. design-bid-build vs. design-build, etc.) will be reviewed during detailed design for respective components of the Project to maximize the benefits of each delivery model.</p>

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October 11, 2023 Email	74	<p>Chapter 11:</p> <p>The overall schedule is very aggressive with over \$5.2 billion of infrastructure to be built by the end of 2041. Does York have funding mechanisms in place to finance?</p>	<p>No change to Project Report.</p> <p>With the introduction of Bill 23, in combination with housing targets, new and advanced infrastructure is required over the Master Planning period with a \$1 billion plus impact in the next 10 years. Funding for this pressure is not in place.</p> <p>With reduced Development Charge collections resulting from Bill 23 as discussed in the June 15, 2023 York Region Council report, alternative funding sources including those provided by project specific developer financing agreements may be required to deliver these projects.</p>
October 11, 2023 Email	75	<p>Chapter 12:</p> <p>York notes “Construction of the projects will meet the following population growth projections for York Region and Durham Region:</p> <ul style="list-style-type: none"> - Service to an additional 558,000 people to 2031 - Service to an additional 245,320 people to 2041 - Service to an additional 411,330 people to 2051”. <p>Will there be any additional capacity for growth prior to 2031?. If so, how much and where in the Duffin Creek WPCP service area?</p>	<p>No change to Project Report.</p> <p>See response to comment number 2.</p>
October 11, 2023 Email	76	<p>General Comments:</p> <p>Study Areas: The project includes installation and upgrades of many sewers and pumping stations, the construction of which may require dewatering and discharge. We note a study area of 200 m from the site/ sewer alignment has been used to screen for potential impacts. We recommend the study area used purposes of identifying water supply wells and</p>	<p>Update to Chapter 12 of Project Report.</p> <p>Within Chapter 12 under the next steps to further defining the conceptual designs, under the Geotechnical and hydrogeological conditions a third bullet will be added:</p> <ul style="list-style-type: none"> - Identification of water supply wells and development of a well monitoring program where applicable based on dewatering requirements to

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		developing a well monitoring program be expanded to at least 500 m from the dewatering site/ alignment or, if potential zones of influence are known, to the maximum extent of the zone of influence. While a smaller distance may be reasonable in areas/ projects where little dewatering is anticipated (such as shallow construction above the water table or in low permeability formations), limiting the area to 200 m may not be adequate in every case. The proposed studies that will be undertaken during detailed design should include the rationale for scoping the study area.	the extent of the potential zone of influence.
October 11, 2023 Email	77	<p>Species at Risk:</p> <p>Species at risk have been considered in the report and additional studies will be carried out where required. No further information on SAR requirements at this time. Any authorizations that may be required for the project, would need to be done in advance of any work that could impact a SAR. This includes site grading, site investigations, archeological work, etc.</p>	<p>No change to Project Report.</p> <p>Comment noted.</p>
October 11, 2023 Email	78	<p>Chapter 4- Y11-B- PTTW:</p> <p>If the water taking falls within a Well Head Protection Areas for Quantity (WHPA-Q1), source protection water quantity policies must be considered to obtain a PTTW. In section 4.13.2.2.2 of the report, it is indicated that the Queensville East SPS Forcemains (Y11B), linear infrastructure is proposed to go directly past a municipal water supply well (Queensville #3 and #4) and is located within WHPA-A, B, C and D. There was no discussion that it is also located within a WHPA-Q1 with a moderate stress and whether any mitigation measures are required.</p>	<p>No change to Project Report.</p> <p>As specified in the South Georgian Bay Lake Simcoe Source Water Protection Plan, a WHPA-Q1 refers to the "area where activities that take water without returning it to the same source may be a threat". An activity is considered a threat if it results in a depletion of water supply that could impact long-term viability of municipal drinking water resources. The Queensville East SPS Forcemain (Y11B) will be a linear forcemain. Temporary groundwater takings may be required to facilitate construction; however, it is expected that construction methods will be implemented to minimize dewatering. No long-term groundwater takings are required during</p>

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			<p>operation of the sewer. The temporary construction groundwater water takings for the installation of Y11B are not anticipated to impact the sustainability of the municipal drinking water supply or the ability to meet municipal water supply requirements. The municipal aquifer is much deeper and well protected from the construction activities relating to this part of the project. Hydrological integrity will not be adversely affected. The South Georgian Bay Lake Simcoe Source Water Protection Plan policy specifies that the municipalities are responsible to develop water conservation plans to ensure sustainable water use for operation of municipal wellheads within WHPA-Q1. The linear infrastructure installation and operation does not require long term groundwater takings, and has little if any change to the development area. The infrastructure is not anticipated to effect infiltration or water balance, and as such, no water management plans or conservation plans are anticipated to be needed.</p>
October 11, 2023 Email	79	<p>Chapter 9- P1- Air (District)</p> <p>1. Section 9.6.5.1 (p. 39) mentions that MECP approved the facility for a target of 4.5 odour units, however reference to this value is not identified in the existing ECA, and we are not able to confirm this statement. Are you able to provide documentation of this approval? If not, we recommend this value be removed from the report as further discussion is needed.</p> <p>2. Item SB-2 in Table 9.12 (p.44): It is unclear what the mitigation measures would be during operations. The table references the same mitigation measures for operations that are listed for construction; however, these measures are not applicable as they relate to construction activities and to noise impacts. Please clarify mitigations that would apply during</p>	<p>Updates to Chapter 9 of Project Report</p> <p>1. Text with reference to MECP approved 4.5 Odour unit was deleted. We understand that 4.2 odour units have been used as a general reference to assess odour impacts at sensitive receptors. Text was revised in Project Report, as follows:</p> <p><i>"In 2009, an Odour Management Plan (OMP) was developed by the Regions to address the conditions contained in the MECP letter of approval, ENV1283 MC-2007-364, for the Duffin Creek WPCP Stage 3 Expansion Project. The OMP included an assessment of odour impacts with the baseline conditions and the expanded facility operations (that is, with Stage 3). Odour impacts were evaluated against the ambient background concentration levels, and then a secondary performance measure referred as the "complaint trigger level". Based</i></p>

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		<p>operation.</p> <p>3.How are odours controlled for the solids processing?</p>	<p><i>on literature reviewed conducted at the time, it was determined that any receptor that experiences odour concentrations below 4.2 OU/m³ was not likely to register complaints, while odour concentrations between 4.2 OU/m³ and 20 OU/m³ may cause complaints. The 2009 OMP established 4.2 OU/m³ as secondary trigger level to assess potential odour impacts from the operation of the plant. Subsequent odour assessment conducted in support of the odour monitoring program included an analysis of the frequency of exceedance with the ranges as greater than 1 OU to 4.2 OU, greater than 4.2 OU to 8.8 OU, greater than 8.8 OU to 10.2 and greater than 10.2 OU”</i></p> <p>2. For an operations perspective the main objective will be to design the liquid and solid treatment processes to meet the Ministry air standards and guidelines. Text was revised in Project Report as follows:</p> <p>“- <i>Air dispersion modelling was completed to compare the effects of the expanded plant against existing Ontario ambient air quality criteria. The analysis indicates that the plant cumulative concentration of all air pollutant assessed are below their respective MECP criteria.</i></p> <p>- <i>The expanded facilities will be designed and operated such that emissions from various processes continue to be below the MECP air emission guidelines at all sensitive receptors.”</i></p> <p>3. Stage 4 and the solids treatment will use the same odour control strategies as Stage 3.</p>
October 11, 2023 Email	80	<p>Chapter 9- P1- Air</p> <p>Existing ECA #2693-BY5F5Y. Current application in</p>	No change to Project Report.

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		to replace two flares and two fluidized bed sludge incinerators. Air Approvals in discussion with Region and consultant regarding draft sent for flares and FBSI replacements.	
October 11, 2023 Email	81	Chapter 8- D1/D2- Air possible odour control equipment to control odorous emissions from SPS will require s. 9 approval	No change to Project Report. Noted approval is required and will be submitted for / obtained during detailed design.
October 11, 2023 Email	82	Chapter 6- Y1A1/Y1A2- Air possible odour control equipment identified requires s.9 approval	No change to Project Report. Noted approval is required and will be submitted for / obtained during detailed design.
October 11, 2023 Email	83	Chapter 5 – Air possible odour control equipment identified requires s.9 approval Y13A possible ventilation of odours but no odour control proposed - may need odour control and hence, s. 9 approval required? Y4/Y5 possible odour control equipment to control odorous emissions from SPS will require s. 9 approval	No change to Project Report. Noted approval is required and will be submitted for / obtained during detailed design.
October 11, 2023 Email	84	Chapter 9/10- Sewage ECA amendment Duffin WWTP	No change to Project Report Noted approval is required and will be submitted for / obtained during detailed design
October 11, 2023 Email	85	Chapter 8- Sewage CLI Schedule C amendment (Durham's CLI-ECA)	No change to Project Report Noted approval is required and will be submitted for / obtained during detailed design
October 11, 2023 Email	86	Chapter 7- Sewage Potential to be pre-authorized by CLI-ECA	No change to Project Report Noted approval is required and will be submitted for / obtained during detailed design
October 11, 2023 Email	87	Chapter 6- Sewage Potential to be pre-authorized by CLI-ECA	No change to Project Report. Noted approval is required and will be submitted for /

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
			obtained during detailed design.
October 11, 2023 Email	88	<p>Chapter 5- Sewage</p> <p>Y3B/Y3C/Y13B CLI Schedule C amendment</p> <p>Y3A/Y10/Y13A/Y13C Potential to be pre-authorized by CLI-ECA</p> <p>Y4/Y5 Potential to be pre-authorized by CLI-ECA. Need to confirm % capacity increase.</p>	<p>No change to Project Report.</p> <p>Noted approval is required and will be submitted for / obtained during detailed design.</p>
October 11, 2023 Email	89	<p>Chapter 4- Sewage</p> <p>Y6/Y9A/Y11A/Y11B/Y12A CLI Schedule C amendment</p> <p>Y9B/Y12B Potential to be pre-authorized by CLI-ECA</p> <p>Y7/Y8 Potential to be pre-authorized by CLI-ECA. Need to confirm % capacity increase.</p>	<p>No change to Project Report.</p> <p>Noted approval is required and will be submitted for / obtained during detailed design.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	90	<p>The assessment completed by Central Region Technical Support suggested the revisions below to the Draft York Region Sewage Works Project Report. Please refer the email from Ted Belayneh, dated October 17, 2023 (Titled "CR Tech Support comments on the Sept 2023 Draft York Region Sewage Works Project Report provided by Central Region Technical Support") for detailed comments.</p> <ol style="list-style-type: none"> 1. Expansion of Study areas from 200m to 500m in higher risk areas: 2. Citing of the Baird RWIA report in Section 10.5. 3. Further clarification relating to mixing zones – 	<ol style="list-style-type: none"> 1. Refer to response to comment number 99. 2. Refer to response to comment number 100 and 101. 3. Refer to response to comment number 102. 4. Refer to response to comment number 103. 5. Refer to response to comment number 104. 6. Refer to response to comment number 105.

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		<p>(clarification of the following statement "...PWQO should be met at the edge of the near-field mixing zone...")</p> <p>4. Clarification of assumptions for background/ambient TP</p> <p>5. Inclusion of modelling runs using a design objective value of 0.35mg/L to determine effects of phosphorus on shoreline areas</p> <p>6. Inclusion of a table to clearly show the effluent concentration limits and objectives for all parameters as well as the proposed loading limit for the expanded plant.</p>	
October 18, 2023 Attachment to October 18, 2023 meeting invitation	91	<p>If the water removed during construction dewatering operation is greater than 50,000 litres/day from any groundwater or surface water source, a Permit to Take Water (PTTW) is required. Certain low-risk water taking activities have been prescribed by the Water Taking Environmental Activity and Sector Registry (EASR) Regulation (Ontario Regulation 63/16) as requiring self-registration in the EASR instead of obtaining a PTTW. This includes construction site dewatering that meet the EASR criteria. For more information visit the Water Taking User Guide for EASR. MECP is currently proposing to remove the volumetric limit of 400,000 L/day for EASR eligibility. This would allow any quantity of ground water or storm water from dewatered work area(s) at a construction site to be taken as long as all other requirements of the EASR are met. For more information visit the Proposal Notice at https://ero.ontario.ca/index.php/notice/019-6853.</p>	<p>No change to Project Report</p> <p>Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	92	<p>In section 4.13.2.2.2 of the report, it is indicated that the Queensville East SPS Forcemains (Y11B), linear infrastructure is proposed to go directly past a</p>	<p>No change to Project Report</p> <p>Refer to response to comment number 78.</p>

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		municipal water supply well (Queensville #3 and #4) and is located within WHPA-A, B, C and D. There is no discussion that this project is also located within a WHPA-Q1 with a moderate stress and whether any measures will be implemented to ensure no impact to the quantity or quality of water at the supply well. (Note: the Ministry is satisfied that the regular PTTW review process manages the water quantity threat to municipal sources of supply due to the short-term, non-recurring nature of these takings, thus no special consideration of Source Protection Plan quantity policies would be required for construction dewatering.	Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.
October 18, 2023 Attachment to October 18, 2023 meeting invitation	93	How is the Lake Simcoe Protection Plan being considered? If the site is located within a regulated area of the Lake Simcoe Watershed, you must provide proof that you have: a) received permits and approval from the Lake Simcoe Conservation Authority; and b) have ensured your site conforms to your respective municipality's Stormwater Management Master Plan.	No change to Project Report. Reference to the Lake Simcoe Protection Plan is covered within Chapter 4 Table 4.2 and Chapter 5 Table 5.2. These tables note that projects are within the Lake Simcoe Protection Plan area and will be subject to the plan's policies. Chapter 4 Section 4.15.2 and Chapter 5 Section 5.15.2 summarize the anticipated permits required for the projects. Permits and approvals from the Lake Simcoe Region Conservation Authority and local area municipalities are referenced in the aforementioned sections within Chapter 4 Table 4.80 and Chapter 5 Table 4.76.
October 18, 2023 Attachment to October 18, 2023 meeting invitation	94	Chapter 8: The peak capacity of the existing primary trunk sewer conveying raw wastewater to Duffin WWTP is 1,900 ML/d. What is the peak capacity of the proposed primary trunk twin in ML/d?	Change to Project Report Chapter 8. Peak hydraulic capacity of the Duffin Creek WPCP is 3290 ML/d (30,080 L/s). The primary trunk will be sized to meet this. Additional row included in the design basis table in Chapter 8, Section 8.2.3.1 Design Basis to note this.
October 18, 2023	95	General:	No change to Project Report

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Attachment to October 18, 2023 meeting invitation		<p>The Project Report contains details of the Project, including concepts for the individual infrastructure undertakings such as installation and upgrades of sewers, pumping stations and the expansion of the Duffins Creek Sewage Treatment Plant (STP). For the Water Unit, the primary areas of interest in the Project would be the evaluation of the environmental effects related to: i) the water taking required during construction of the various components and the discharge of the dewatering effluent; and ii) the discharge of treated wastewater from the expanded STP, including establishment of effluent quality targets following completion of a receiving water impact assessment. I have structured my comments to relate to these two broad areas: the management of construction related water taking and dewatering discharge, and evaluation of treated wastewater discharge from the expanded STP.</p>	<p>Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	96	<p>Water Taking during construction and the management of dewatering effluent:</p> <p>The relevant technical work provided in the Project Report regarding water taking and discharge requirements is high level and mostly based on desk-top studies. The determination of rates, amounts and duration of takings, location and mode of discharge, monitoring & mitigation plans etc. has largely been deferred to future detailed design stages. With the limited technical information available, my review focussed solely on identifying any major issues and to provide high level comments for consideration. Based on experience, it is likely that the identified sewer construction works will be broken into numerous individual contracts, each with its own dewatering and</p>	<p>No change to Project Report</p> <p>Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		discharge requirements. Detailed reports on hydrogeology and water taking/ discharge plans would also be prepared to support these.	
October 18, 2023 Attachment to October 18, 2023 meeting invitation	97	<p>Water Taking during construction and the management of dewatering effluent:</p> <p>The potential undesirable effects of construction related water taking and discharge may include: interference with well water availability; damage to structures due to land subsidence; groundwater quality problems by the induced movement of water which is of poorer quality either for natural reasons or due to existing subsurface contamination; interference with baseflow to surface water features such streams and wetlands; and loss of spawning habitat due to loss of groundwater upwelling. Also, the discharge of pumped water into local streams and watercourses may have undesirable effects such as erosion of stream channels or changes in the flow regime or the quality of water in the receiving water body that may be harmful to aquatic life - for example, due to changes in temperature and chemistry of the water. The Report identifies the various studies which will be undertaken during detailed design that will assess the likelihood of any impacts to occur, and to further propose monitoring and mitigation measures as necessary. It is recognized the amount of environmental investigation required and how detailed the monitoring and mitigation plans need to be are largely determined by site-specific matters such as the complexity of the environment as well as the measures incorporated into the design of the construction to minimize water taking. Consequently, not all of the issues discussed here are necessarily applicable to every project component.</p>	<p>No change to Project Report</p> <p>Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
October 18, 2023 Attachment to October 18, 2023 meeting invitation	98	<p>Water Taking during construction and the management of dewatering effluent:</p> <p>It is indicated that earth pressure balance tunneling and sealed shaft construction technologies will be used as much as possible to minimize dewatering. Based on previous experience, this technique will address a number of water taking and discharge issues, however dewatering will not be entirely eliminated.</p>	<p>No change to Project Report</p> <p>Comments noted. Options will be considered to minimize construction dewatering during detailed design. It is acknowledged that dewatering will not be entirely eliminated, and permit/approval applications will be submitted during detailed design in consultation with MECP to address dewatering.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	99	<p>Water Taking during construction and the management of dewatering effluent:</p> <p>A study area of 200 m from the site/ sewer alignment has been used to screen for potential impacts. It is recommended the study area used for purposes of identifying water supply wells and developing a well monitoring program be expanded to at least 500 m from the dewatering site/ alignment or, if potential zones of influence are known, to the maximum extent of the zone of influence. While a smaller distance may be reasonable in areas/ projects where little dewatering is anticipated (such as shallow construction above the water table or in low permeability formations), limiting the area to 200 m may not be adequate in every case. The studies proposed to be undertaken during detailed design should include the rationale for scoping the study area. In areas where there are water supply wells, having a robust well monitoring program to establish reliable baseline data will be beneficial.</p>	<p>No change to Project Report</p> <p>See response to comment number 76.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	100	<p>The ministry was previously provided with a copy of a separate stand-alone report entitled: Receiving Water Impact Assessment (RWIA), prepared by Baird and dated September 14, 2023. It appears</p>	<p>Update to Project Report Chapter 10.</p> <p>Project Report Chapter 10 Section 10.5.1 was updated to add text with reference to the report prepared by Baird, as</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		that the main findings of the RWIA report are provided in Section 10.5 of the Project Report. However, the Project Report does not clearly identify that the receiving water assessment provided in Section 10.5 is based on Baird's RWIA report. It is recommended the RWIA report be properly cited and referenced in the Project Report.	<p>follows:</p> <p>The Receiving Water Impact Assessment (RWIA) is a study that evaluates the assimilative capacity of a waterbody to incorporate substances such that the water quality does not degrade below a predetermined level. This section summarizes the results of a RWIA conducted by Baird & Associates, dated September 14, 2023 (Baird, 2023) to assess the performance of the outfall configurations with the proposed flows for the Duffin Creek WPCP treatment expansion.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	101	The technical comments provided below are based on a review of the RWIA report. However, Section 10.5 of the Project Report was also scanned to ensure there were no major differences between the RWIA report and Section 10.5 of the Project Report. The only item of significance that was noted (in Section 10.5.7.6) makes the commitment to proceed with the longer outfall option (option 2) which has a higher initial dilution and smaller mixing area than the shorter outfall option considered. It states: "Therefore, Option 2 was selected as the preferred configuration to be carried forward for further evaluation. The concept for this outfall configuration involves a 3 km-long outfall with 34 diffusers located along the last 500 m of the outfall length." The RWIA report does not include a recommendation on the preferred option.	<p>Update to Project Report Chapter 10.</p> <p>The intent was to indicate that Option 2 was used throughout the Report as a design basis and to assess impacts. Project Report Chapter 10 Section 10.5.7.6 and Section 10.6 were updated.</p> <p>10.5.7.6 Conclusions</p> <p>The lake near-field and far-field model results show that both options meet the provincial regulatory requirements defined in the MECP's Policies for Surface Water Quality Management (MECP, 1994a) and the MECP Guidelines for Deriving Effluent Requirements (MECP, 1994b) and therefore can be considered for implementation at the Duffin Creek WPCP.</p> <p>Additional lake modelling will be conducted during preliminary design to define the optimal outfall configuration, including length, number of diffusers, port opening diameter/type, and diffuser length.</p> <p>10.6 Outfall Configuration</p> <p>The results of the RWIA assessment demonstrate that both outfall configuration options meet the MECP regulatory requirements and therefore can be considered</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
			<p>for implementation. The preferred outfall configuration will be defined in the subsequent design phases to account for results on the future geotechnical investigations and optimization of the outfall including length, number of diffusers, port opening diameter/type, and diffuser length.</p> <p>For the purpose of this assessment, of the two outfall configurations modelled, Option 2 was selected to be carried forward for further evaluation.</p>
October 18, 2023 Attachment to October 18, 2023 meeting invitation	102	<p>A reasonably accurate description of the ministry's definition of "mixing zones" has been provided in section 2.2 of the RWIA report (which is also reproduced in Section 10.5.2.2. of the Project Report). However it is recommend to further clarify the following statement "...PWQO should be met at the edge of the near-field mixing zone...". First, it is important to note the distinction between the regulatory concept of mixing zones from the hydrodynamically determined Near Field Region (NFR) of mixing which is also sometimes referred as the "initial mixing" area. A discharger has maximum control to influence mixing processes within the NFR (by manipulating the design of the outfall/ diffuser length, orientation etc.) While it would be ideal if water quality guidelines can be met within the hydrodynamically defined NFR, this is not always feasible and achievable for all parameters. The size of the regulatory mixing zone within which water quality criteria must be met is determined based on an acceptable receiving water impact evaluation and modeling.</p>	<p>Update to Project Report Chapter 10.</p> <p>Looking at Project Report Chapter 10 Section 10.5.2.2 we noticed that the following bullet brings in two concepts that are different (i.e. mixing zone and near-field region)</p> <ul style="list-style-type: none"> MECP terms of reference developed for previous wastewater treatment plant outfall receiving water impact assessments on Lake Ontario state that the PWQO should be met at the edge of the near-field mixing zone and that, as a minimum requirement, the near-field mixing zone should be limited to half the distance between the offshore length of the outfall and the nearest shore, also referred to as the "half-pipe distance" <p>Project Report Chapter 10 Section 10.5.2.2 was revised to delete the term "near-field" as follows:</p> <p>"MECP terms of reference developed for previous wastewater treatment plant outfall receiving water impact assessments on Lake Ontario stated that the PWQO should be met at the edge of the mixing zone, and as a minimum requirement the mixing zone should be limited to half the distance between the off-shore length of the outfall and the nearest shore also referred to as the 'halfpipe distance'"</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered						
October 18, 2023 Attachment to October 18, 2023 meeting invitation	103	<p>The RWIA report demonstrates that for both outfall options considered (a 3 km outfall vs a 2.5 km outfall), initial mixing is high. Given the high rate of initial dilution and the proposed level of treatment, most effluent parameters (except phosphorus) would meet their respective water quality criteria within the initial mixing zone. This is demonstrated through the results of the CORMIX modeling. It is also shown that for total phosphorus (TP), the effluent needs to be diluted at a ratio of 40:1 to meet the PWQO. While this level of dilution is not achieved within the initial mixing zone, both outfall options considered come very close to this target ratio. Although the longer (3 km) outfall option performs better than the 2.5 km option, in my opinion, the additional initial mixing achieved is not that significant. It is also important to note that the modeling was done using low ambient currents and the proposed ECA limit and design flow. In reality, the plant will be expected to achieve the design objective over the long term (e.g. annual averages). Higher current speeds would also mean higher initial dilution.</p>	<p>Update to Project Report Chapter 10.</p> <p>Please see response to Comment #101. Text in Project Report was revised to include both options as feasible for implementation and delete the phrase “preferred” option at this stage of planning. However, for the purpose of the Report, the hydraulic headloss analysis, impacts assessments, and the cost estimate was based on Option 2</p> <p>Table 10.21 Proposed Field and Desktop Investigations was revised to include considerations for effluent concentration objectives or limits in the next lake modelling assessment.</p> <p>Table 10.21 Proposed Field and Desktop Investigations</p> <table border="1"> <thead> <tr> <th>Field Investigation</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>Receiving Water Impact Assessment</td> <td> <ul style="list-style-type: none"> – Conduct additional lake modelling to optimize the final riser/diffuser configuration required to meet regulatory requirements. </td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> – Additional lake modelling during preliminary/detailed design can consider either the effluent concentration objectives or limits, as appropriate, to provide additional information on water quality impacts and inform the final outfall design. </td> </tr> </tbody> </table>	Field Investigation	Comments	Receiving Water Impact Assessment	<ul style="list-style-type: none"> – Conduct additional lake modelling to optimize the final riser/diffuser configuration required to meet regulatory requirements. 		<ul style="list-style-type: none"> – Additional lake modelling during preliminary/detailed design can consider either the effluent concentration objectives or limits, as appropriate, to provide additional information on water quality impacts and inform the final outfall design.
Field Investigation	Comments								
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	<ul style="list-style-type: none"> – Additional lake modelling during preliminary/detailed design can consider either the effluent concentration objectives or limits, as appropriate, to provide additional information on water quality impacts and inform the final outfall design. 								
October 18, 2023 Attachment to October 18, 2023 meeting invitation	104	<p>A far field model was also used to depict the plume behavior by continuous simulation of its trajectory over a period of time (one year in this case – 2008). One can zoom in on selected periods (episodes) or look at the entire simulation period to assess conditions at specific points of interest. Results of the far field modeling provided in Section 7.4, Table 7.4 and Table 7.5 of the RWIA report show the</p>	<p>Update to Project Report Chapter 10.</p> <p>a. Project Report Chapter 10 Section 10.5.7.3 was revised to include the following text:</p> <p>It is worth noting that if background concentration of TP at the shoreline locations is higher due to other inputs of</p>						

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		<p>annual and seasonally averaged predicted effects of the discharge on shoreline locations. The differences from the two outfall options are minimal. The following are recommended for further consideration:</p> <ul style="list-style-type: none"> a) The far field modeling shows the relative effect of the discharge on TP levels in shoreline areas to be marginal only. It is understood the modeling is based on the assumption that the background or baseline TP concentrations at the shoreline points considered is similar to the observed values further off-shore (0.009 mg/L). It is recommended that the proponent clarify this assumption. If the background or “ambient” concentration of TP at the shoreline locations is higher due to other inputs of phosphorus from the shore (e.g. tributary watercourses; stormwater), it is possible that the relative effect of discharge from the proposed new outfall would be even less discernible at the shoreline locations. b) Far field modeling was carried out using the proposed effluent limit of 0.45 mg/L for the expanded plant. As noted above, it is expected that the plant will be achieving its design objective on a longer term average basis. It may be beneficial to include modeling runs using the design objective value of 0.35 mg/L as input, as this would represent more realistic effects of the proposed expansion on phosphorus levels on shoreline areas. 	<p>phosphorus from the shore (e.g. tributary watercourses; stormwater), it is possible that the relative effect of discharge from the proposed new outfall would be even less discernible at the shoreline locations.</p> <ul style="list-style-type: none"> b. See response to comment #103
October 18, 2023 Attachment to October 18, 2023	105	It is understood that the proposal is to maintain the current effluent concentration targets (both limits and objectives) unchanged for the proposed	Update to Project Report Chapter 9. Project Report Chapter 9 Section 9.5.2 was updated to

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
meeting invitation		expansion. The load limit for TP will increase as the flows increase from the current approved rate of 630 MLD to the proposed rate of 940 MLD. This is indicated in Table 1.1 of the RWIA report. Based on the analysis provided, the proposed effluent quality targets (including the proposed increase in TP loading) are acceptable. Table 10.3 of the Project Report contains the proposed effluent concentration limits for TP and TAN only. Nevertheless, my review at this stage is preliminary and should not be construed as final approval/ acceptance of the proposed targets by the ministry. Also, it is recommended the Project Report includes a Table clearly showing the effluent concentration limits and objectives for all parameters as well as the proposed loading limit for the expanded plant.	include a new table, Table 9.5 with the proposed limits and objectives for the plant expansion. Table not included here due to limited space.
October 18, 2023 Email	106	<p>York plans to have the Aurora SPS gravity trunk sewer twinning (Y10) constructed and operational by the end of 2026, and the 2nd Concession South Gravity sewer (Y12-B) constructed and operational by the end of 2027:</p> <ul style="list-style-type: none"> - Will these works provide York with sufficient capacity to manage the existing population + the previously allocated population of 23,000 people? - Will these works provide York with any additional capacity to service more population beyond 1a.? 	<p>No change to Project Report.</p> <p>The existing population and the previously assigned population capacity of 23,000 people will be serviced by the existing YDSS system. Once commissioned, the new Aurora SPS gravity trunk sewer (Y10) and 2nd Concession South Gravity Sewer (Y12-B) will provide additional servicing capacity for a population that is larger than the population identified in 1a above.</p>
October 18, 2023 Email	107	<p>Regarding Phase 1 infrastructure: York plans to have all Phase 1 infrastructure completed and operational by December 2028 York noted that the additional growth (not yet allocated) in Upper York will be 25,000. Would this represent the Upper York 2031 growth component of York's 558,000 population growth?</p>	<p>No change to Project Report.</p> <p>Pending Provincial approval of the York Region Sewage Works Project, a total of 25,000 persons of additional servicing capacity for the Towns of Aurora, Newmarket and East Gwillimbury could be generated upon completion of the Phase 1 work, which is part of York's 414,000 population growth to the year of 2031. Please note that</p>

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
			558,000 number is the combined residential growth for both York Region and Durham Region.
October 18, 2023 Email	108	The Project Component Durations identified in the respective individual chapters are 1 year longer than the dates identified in Chapter 11 (Figure 11.2) What is the difference?	Updates to Chapter 11 of Project Report The duration period for each project shown in Chapter 11 is from the start of planning and design to the end of construction. The total durations listed in Chapter 11 match the durations listed in the project chapters with the exception noted below. For projects Y2 (Markham Twinning) and P3 (Duffin Creek WPCP Outfall) the total duration shown in Chapter 11 will be revised to match the durations listed in the project chapter 7 and 10 respectively.
October 18, 2023 Email	109	Chapter 11 states "Phase 2: Projects provide capacity to accommodate planned growth to 2036" What is the population projection for 2036 vs 2041 (the next reported year)?	Updates to Chapter 11 of Project Report The projects being completed in Phase 2 provide the required system capacity for the planned growth to 2041. The 2036 date listed in the Project Report will be corrected to 2041. In Phase 3 projects are completed as required to accommodate the planned growth out to 2051.
October 19, 2023, Revised Attachment to October 18, 2023 meeting invitation	110	1. York Region needs to comply with the applicable noise limits set out in Publication NPC-300 for any activity / equipment subject to approval under the EPA. 2. Noise assessments, when required must follow one of the following alternative routes: a. Primary Noise Screening Method Form (PNSMF), or b. Secondary Noise Screening Method Form (SNSMF), or c. Acoustic Assessment Report (AAR)	No change to Project Report. Comments noted. Permit/approval applications will be submitted during detailed design in consultation with MECP.

Date and Format Comment Received	#	MECP Comments	How the Comment Was Considered
		It should be noted that the PNSMF and SNSMF are e-forms posted on the Ministry website, while the AAR must be prepared by an Acoustical Consultant	

October 28, 2023

Henry Sung, M.S, P.E.
Manager, Contract Administration and Quality Control | Engineering Department
City of Markham
101 Town Centre Boulevard
Markham, ON
L3R 9W3

Dear Henry Sung,

Re: York Region Sewage Works Project Report Release and Response to Comments

Thank you for participating in the development of the Project Report for the York Region Sewage Works project and for providing comments on the draft conceptual design in your letter dated August 31, 2023.

York and Durham Regions have considered your comments as part of developing the Project Report. Responses to your comments are included in Attachment 1.

We appreciate your participation in the York Region Sewage Works Project during development of the Project Report and look forward to continuing to work with TRCA during design and permitting.

If you have any questions, please respond to the undersigned or to Katrina McCullough, GHD, at katrina.mccullough@ghd.com.

Sincerely,



Shu He, P.Eng., PMP
Manager, Engineering, Capital Delivery, Public Works
Phone: 1-877-464-9675 ext. 75124, Email: shu.he@york.ca

cc: Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Jose Manalo, Project Manager, Capital Delivery, Public Works, York Region
Jason Morris, Environmental Specialist, Capital Delivery, Public Works, York Region
Tom Casher, Project Manager, GHD
Katrina McCullough, Senior Community Engagement Specialist and Environmental Planner, GHD
Tom Mahood, Project Manager, Jacobs
Ray Cantwell, Project Manager, Jacobs

Attachment 1: Comments and Project Team's Responses

Attachment 1: City of Markham Comments and Project Team’s Responses

City of Markham Comment	Project Team’s Response
<p>Could you clarify if the proposed work will affect any existing City of Markham infrastructure, such as sewers, water mains, roads, and structures? If there are impacts on City infrastructures, we will need to review the design to ensure it aligns with the City's standards. Conversely, if there are no impacts on City infrastructure, we may not require involvement in the design review process.</p>	<p>We do not anticipate any impacts on City of Markham infrastructure. The Markham Collector is currently proposed to be located primarily within existing right of ways including the Hydro One corridor south of Highway 407 and the Rouge Bank Drive right of way. The construction will also be carried out by tunneling methods at a depth that will avoid conflicts with other infrastructure. York Region will continue to consult the City during detailed design to discuss potential impacts on City infrastructure.</p>
<p>Please confirm the expected timelines for design completion, as well as the anticipated start and completion dates for the construction phase.</p>	<p>The proposed timeline is included in Chapter 11. Design and construction of the Markham Collector is expected to take place between 2033 and 2041.</p>
<p>As we approach the construction phase (prior to issuing tenders), we kindly request that the York Region present the proposed work, their communication plan, and how they intend to inform the public about it to our City Council.</p>	<p>As requested, prior to construction York Region will provide information to the City on the proposed work and communication plan.</p>
<p>Please also confirm the methods through which York Region intends to communicate with the public regarding the current design and the upcoming construction? It is essential that our Ward Councillor(s) is kept updated on the progress of the work and its schedule. Additionally, we need to provide updates to our director at key milestones, such as design completion, public meetings, tender processes, and construction commencement.</p>	<p>York Region will continue to keep the City updated as design and construction progresses. Prior to construction, York Region will provide information to the City on the public communication plan.</p>

October 28, 2023

Taylor Stevenson
Coordinator, Infrastructure Permitting
Lake Simcoe Region Conservation Authority
120 Bayview Parkway
Newmarket, ON L3Y 3W3
t.stevenson@lsrca.on.ca

Dear Taylor Stevenson,

Re: York Region Sewage Works Project Report Release and Response to Comments

Thank you for participating in the development of the Project Report for the York Region Sewage Works Project (the Project) and for providing comments on the draft conceptual design in your email dated August 21, 2023.

York and Durham Regions have considered your comments as part of developing the Project Report. Responses to your comments are included in Attachment 1.

We appreciate your participation in the York Region Sewage Works Project during development of the Project Report and look forward to continuing to work with LSRCA during design and permitting.

If you have any questions, please respond to the undersigned or to Katrina McCullough, GHD, at **katrina.mccullough@ghd.com**.

Sincerely,



Shu He, P.Eng., PMP
Manager, Engineering, Capital Delivery, Public Works
Phone: 1-877-464-9675 ext. 75124, Email: shu.he@york.ca

cc: Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Jose Manalo, Project Manager, Capital Delivery, Public Works, York Region
Jason Morris, Environmental Specialist, Capital Delivery, Public Works, York Region
Tom Casher, Project Manager, GHD
Katrina McCullough, Senior Community Engagement Specialist and Environmental Planner, GHD
Tom Mahood, Project Manager, Jacobs
Ray Cantwell, Project Manager, Jacobs

Attachment 1: LSRCA Comments and Project Team's Responses

Attachment 1: LSRCA Comments and Project Team's Responses

Project Component	#	LSRCA Comment	How the Comment Was Considered
Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 6+100 to 9+100)	1	<ul style="list-style-type: none"> • All compounds appear to be outside the regulated area. • The compound at STA 7+900 is located within a York Region Significant Woodland (map attached). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a woodland this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 9+100 to 12+100)	2	<ul style="list-style-type: none"> • The LSRCA Regulated Area appears to be missing from the plan. • The compound at STA 9+700 is partially regulated for lands adjacent to a Provincially Significant Wetland (within 120 m) and partially within the York Region Significant Woodland (map attached). • The compound at STA 11+800 is regulated for wetland, meanderbelt, and is immediately adjacent to Marsh Creek which is missing from your plans (map attached). This is a hazardous area, and we would not recommend putting the compound in this location unless you can remain a safe distance from the creek and avoid the wetland. The area is also Significant Woodland. 	<p>York Region will take these items into consideration as the design progresses.</p> <p>LSRCA regulated areas have been shown within figures in the Project Report for added clarity. Final permit application packages will also clearly identify LSRCA regulated area to meet permitting requirements.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a meanderbelt, wetland or woodland this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>

Project Component	#	LSRCA Comment	How the Comment Was Considered
Y1-A Leslie Street Trunk Sewer Phase 1&2 (STA. 12+100 to 14+100)	3	<ul style="list-style-type: none"> • The LSRCA Regulated Area appears to be missing from the plan. • The compound at STA 12+600 is partially regulated for floodplain, meanderbelt, and is immediately adjacent to Weslie Creek, which is missing from your plans. This is a hazardous area, and we would not recommend putting the compound in this location unless you can remain outside both flooding and erosion hazards (map attached). • The compound at STA 14+700 is not regulated. • The compound at STA 15+000 is regulated for floodplain and meanderbelt associated with Bogart Creek (missing from your plans), and wetland (map attached). This is a hazardous area, and we would not recommend putting the compound in this location. 	<p>York Region will take these items into consideration as the design progresses.</p> <p>LSRCA regulated areas have been shown within figures in the Project Report for added clarity. Final permit application packages will also clearly identify LSRCA regulated area to meet permitting requirements.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Aurora SPS B – Y3-B Site Plan	4	<ul style="list-style-type: none"> • The Potential Property Acquisition and Y3-B SPS is regulated for wetland and floodplain and should be avoided as a potential site for a SPS if there are alternate locations. • The Potential Property Acquisition at 0+200 is regulated for floodplain and should be avoided if there are areas on the existing 242 St. Johns Sdrd that are outside the floodplain. If there are no alternate locations, then the SPS will need to be floodproofed from regional flood events. • The compound at STA 0+300 is regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. This location should also be avoided if possible. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of SPS facilities and construction compounds have not been confirmed. SPS locations will be reviewed to avoid or mitigate the impacts of floodplains/wetlands. If any compounds are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y3-C Aurora B SPS (STA	5	<ul style="list-style-type: none"> • The compound at STA 3+424 is only partially regulated for lands adjacent to wetland, but we have no concerns from a hazard 	<p>York Region will take these items into consideration as the design progresses.</p>

Project Component	#	LSRCA Comment	How the Comment Was Considered
1+800 to 3+424)		<p>perspective (please see map LSRCA Reg Area STA 12+600).</p> <ul style="list-style-type: none"> The compound north of St Johns Sdrd is regulated for apparently valleyland, floodplain and meanderbelt associated with Weslie Creek. The compound also appears to go right over top of the creek. This location should also be avoided if possible. If there are no alternate locations, then a proper setback from the creek is required as well as ensuring the compound is outside the floodplain hazard. 	<p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y9-A Newmarket East SPS Site Plan	6	<ul style="list-style-type: none"> The New East Gwillimbury SPS proposed site is regulated for wetland and floodplain and should be avoided as a potential site for a SPS if there are alternate locations or options (e.g. expand existing Newmarket SPS outside the floodplain as discussed in our previous meeting). The compound with MH S5 west of the River is partially within floodplain, meanderbelt associated with East Holland River, and wetland. If possible, please locate this compound outside the hazards (map attached). The compound with MH S4 east of the River is entirely within floodplain, meanderbelt associated with East Holland River, and wetland. If possible, please locate this compound outside the hazards (map attached). It is also York Region Significant Woodland. If possible, please locate outside the meanderbelt and woodland. As previously mentioned, when there are no alternate locations outside the floodplain, then flood mitigation measures are required (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a conceptual level, and specific locations for SPS facilities and construction compounds have not yet been confirmed. As the design progresses, York Region will review and, if necessary, adjust the SPS locations to avoid or mitigate any potential impacts on floodplains and wetlands. Similarly, for compounds near meanderbelts or floodplains, we will conduct thorough reviews in subsequent design stages to ensure alignment with LSRCA requirements through the consultation and permit application process, and flood mitigation measures will be considered when alternate locations are not feasible.</p>
Y9-B Newmarket East SPS Forcemain (STA. 0+000 to 2+186)	7	<ul style="list-style-type: none"> The compound at 0+300 MH S4 east of the River is entirely within floodplain and meanderbelt associated with East Holland River. If possible, please locate this compound outside the hazards (map attached). It is also York Region Significant Woodland. As previously mentioned, when there are no alternate locations outside the floodplain, then flood mitigation measures are required (e.g. ensure 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works</p>

Project Component	#	LSRCA Comment	How the Comment Was Considered
		<p>hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc).</p> <ul style="list-style-type: none"> The compound at the north east corner of Green Lane and Leslie St is partially within floodplain. If possible, please locate this compound outside the hazard (map attached). 	<p>have not been confirmed. If any structures are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process .</p>
Y10 Aurora SPS Gravity SWR Twinning Plan and Profile (STA 0+000 to 0+879)	8	<ul style="list-style-type: none"> The LSRCA Regulated Area is missing from the plan. The compound in between STA 0+100 and 0+200 and the compound at 0+300 are regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>LSRCA regulated areas have been shown within figures in the Project Report for added clarity. Final permit application packages will also clearly identify LSRCA regulated area to meet permitting requirements.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y11-B Queensville East SPS Forcemain – Plan and Profile (STA. 0+000 to 1+800)	9	<ul style="list-style-type: none"> The compound at STA 0+000 is regulated for meanderbelt and wetland. If possible, please locate the compound a safe distance from the watercourse and outside the wetland (map attached). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a wetland or watercourse this will be</p>

Project Component	#	LSRCA Comment	How the Comment Was Considered
			reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.
Y12-B East Gwillimbury Trunk SWR (STA. 0+000 to 2+089)	10	<ul style="list-style-type: none"> The large compound northeast of the existing SPS is regulated for floodplain and meanderbelt associated with the East Holland River (map attached). This is a hazardous area, and we would not recommend putting the compound in this location. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc). This area is also YR Significant Woodland. The compound at 2+000 is regulated for lands adjacent to wetland. Please avoid the wetland (map attached). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a wetland or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y13-A Leslie Street Trunk SWR Phase 3 (STA. 0+000 to 2+600)	11	<ul style="list-style-type: none"> The compound at 0+800 is partially regulated for floodplain and meanderbelt associated with the East Holland River. The compound also appears to go right over top of the River. If there are no alternate locations, then a proper setback from the River is required as well as flood mitigation measures (e.g. ensure hoarding fence does not cause obstructions in a flood event, maintain existing grades, no fill etc). 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a meanderbelt or floodplain this will be reviewed in subsequent stages of design to meet LSRCA requirements through the consultation and permit application process.</p>
Y13-B Mulock SPS Alternative Location Site Plan	12	<ul style="list-style-type: none"> The Primary Site Location and compound is entirely regulated for floodplain, meanderbelt, and is immediately adjacent to Weslie Creek, which is missing from your plans. This is a hazardous area, and we would not recommend putting the Mulock SPS in this location. 	<p>York Region will take these items into consideration as the design progresses.</p> <p>Designs have been developed at this point, at a concept level and location of</p>

Project Component	#	LSRCA Comment	How the Comment Was Considered
		<ul style="list-style-type: none"> The Alternative Site Location is not regulated by the LSRCA and would be a more ideal location from a natural hazard perspective. 	<p>Mulock SPS has not been confirmed. As the design progresses, York Region will consider these factors and to ensure that the project avoids hazardous areas.</p>
Advisory Comment	13	<ul style="list-style-type: none"> Existing drainage and conveyance be maintained and or improved with no change to upstream or downstream flows to avoid impacts to control of flooding and erosion. No increase in velocities that result in increased erosion. Quantity control/peak flow controls be applied to avoid impacting erosion and floodplains in accordance with LSRCA Stormwater Management Guidelines (on LSRCA website). Any fill placement in the floodplain be avoided or compensated for with an incremental cut. Maintain existing grades within the regulated area. Any fill placement in the floodplain be avoided or minimized with a compensating incremental cut. Any watercourse crossings are to be done via trenchless technology. Proper erosion and sediment control measures be undertaken to prevent sediment migration and impact to watercourses. Any interference with wetlands be avoided or supported with a supporting Environmental Impact Study. 	<p>York Region will take these items into consideration as the design progresses, ensuring that the project's development meets all relevant guidelines and environmental standards through the consultation and permit application process.</p>

October 28, 2023

Harsimrat Pruthi
Senior Planner, Infrastructure Planning and Permits
Toronto and Region Conservation Authority
101 Exchange Avenue
Vaughan, ON L4K 5R6

Dear Harsimrat Pruthi,

Re: York Region Sewage Works Project Report Release and Response to Comments

Thank you for participating in the development of the Project Report for the York Region Sewage Works project and for providing comments on the draft conceptual design in your letter dated August 31, 2023.

York and Durham Regions have considered your comments as part of developing the Project Report. Responses to your comments are included in Attachment 1.

We appreciate your participation in the York Region Sewage Works Project during development of the Project Report and look forward to continuing to work with TRCA during design and permitting.

If you have any questions, please respond to the undersigned or to Katrina McCullough, GHD, at **katrina.mccullough@ghd.com**.

Sincerely,



Shu He, P.Eng., PMP
Manager, Engineering, Capital Delivery, Public Works
Phone: 1-877-464-9675 ext. 75124, Email: shu.he@york.ca

cc: Aaron Christie, Manager, Engineering Planning and Studies, Durham Region
Jose Manalo, Project Manager, Capital Delivery, Public Works, York Region
Jason Morris, Environmental Specialist, Capital Delivery, Public Works, York Region
Tom Casher, Project Manager, GHD
Katrina McCullough, Senior Community Engagement Specialist and Environmental Planner, GHD
Tom Mahood, Project Manager, Jacobs
Ray Cantwell, Project Manager, Jacobs

Attachment 1: TRCA Comments and Project Team's Responses

Attachment 1: TRCA Comments and Project Team's Responses

Type of Concern	TRCA Comment	How the Comment Was Considered
Natural Systems	<p>a) Regulation limits are a screening tool and do not comprehensively identify all regulated features and hazards on the landscape. The project team will need to confirm the features in the field. TRCA has provided existing data within and adjacent to the study area. Should any additional details be required, contact the undersigned TRCA Planner. Similarly, the province's LIO database should be consulted for information on wetlands and other natural features.</p> <p>b) Once confirmed, clearly identify all features and hazards including steep valley slopes and floodplains along the alignment and avoid placing shafts within or immediately adjacent to wetlands and watercourses. Also, show locations of the proposed construction compounds, stockpiling and staging area on the plans and avoid sites within or adjacent to natural features and hazards.</p> <p>c) Clearly identify all proposed open cut sections of the alignment on the plans and the proximity to natural features/steep slopes, floodplains etc. should be provided on the drawings.</p> <p>d) Restoration and/or compensation will be required for the temporary disturbance or permanent removal of natural features, as appropriate. Requirements will be dependent on the scale and duration of impacts.</p>	<p>Consultation with the TRCA will be initiated during subsequent design phases to facilitate discussion on the TRCA requirements for various aspects of the design and construction of project components. Additional responses specific to TRCA comments are as follows:</p> <p>a) Initial reviews of natural heritage features and the assessment potential impacts have been carried out based on the overall study area and for some projects though field visits with a focus on the areas that are anticipated to be impacted by construction. This effort has been limited to date and fairly broad in scope and have not been restricted to regulated areas. As the schedule for each project component progresses, additional more focused effort will be required to confirm features and potential impacts and mitigation measures.</p> <p>b) The initial review of natural features has been used to inform the concept designs at this stage of the project. The concepts include only preliminary locations of alignments and other works associated with the concepts. Additional effort will be made to review the province's LIO database and natural features and hazards including steep valley slopes and floodplains along the alignment will be included as constraints in the next stages of design. Alignments will be finalized based on the results of the field investigations.</p> <p>c) In the next stage of design, the nature of construction will be shown on the drawings and the proximity to natural features/steep slopes, floodplains etc. will be provided on the design drawings.</p> <p>d) Impacts and mitigation/compensation measures</p>

Type of Concern	TRCA Comment	How the Comment Was Considered
		<p>have only been reviewed from a concept level. In subsequent stages of design, the impacts and mitigation/compensation measures will be further refined and finalized through consultation with the TRCA.</p>
Natural Systems	<p>From the materials submitted, the following locations are examples of areas where confirmed or potential features appear to conflict with the sewer alignment, footprint of shaft, or compound areas. Note this is not a comprehensive list and further studies will need to identify features:</p> <ul style="list-style-type: none"> - Along Squires Beach Road, there is a Provincially Significant Wetland (PSW) north of Kellino Road, and an unevaluated wetland on 1220 Squires Beach Road. - Along the Markham Collector Twinning (Y2), the alignment is traversing through multiple unevaluated wetlands and watercourses, including the Rouge River and associated vegetation. - Drawing titled "Proposed (PR) D2 – Squires Beach SPS", the blue polygon for SPS is located within a PSW. - ELC Mapping for the proposed Duffin Creek WPCP extension shows that the work is within a cultural meadow but TRCA's ELC Data shows a Red Osier Dogwood Mineral Thicket Swamp in the area. - Leslie Street Section 1: MH S01A & MHS02A are within unevaluated wetlands and within Red Side Dace (RSD) contributing wetland, the proposed alignment is within PSWs and occupied RSD habitat. - Leslie Street Section 2 crosses Haynes Lake, PSWs, and watercourses. - Along Bloomington Road (Drawing CI-D202), MH 01A is within a wetland. 	<ul style="list-style-type: none"> - Initial reviews of natural heritage features and the assessment potential impacts have been carried out based on the overall study area and though field visits with a focus on the areas that are anticipated to be impacted by construction. These features have been used to inform the current concept designs and the methods of construction that are anticipated. For a large majority of the features, the alignments of the sanitary trunk sewers are being constructed by tunnelling methods and, at this stage of concept development, are not anticipated to have impacts on those natural features. This will be further investigated and reviewed in subsequent stages of design. - For the Squires Beach Road SPS, the locations illustrated are only approximate at a concept level and further review and assessment of the natural features and potential impacts will be used to inform the preferred location of the SPS in subsequent stages of design to minimize any potential impacts. - The ELC mapping at the Duffin Creek WPCP has been field reviewed to confirm the mapping. Further review and confirmation of any discrepancies between maps will be carried out in subsequent stages of design. - For Leslie Street Section 1 and 2, the locations are only approximate at concept level and further review and assessment of the natural features and potential impacts will be used to inform the preferred location of shafts. - For Bloomington Road, the locations are only

Type of Concern	TRCA Comment	How the Comment Was Considered
		<p>approximate at concept level and further review and assessment of the natural features and potential impacts will be used to inform the preferred location of shafts.</p> <ul style="list-style-type: none"> - Typical for all linear sewer alignments – the locations are only approximate at concept level and further review and assessment of the natural features and potential impacts will be used to inform the preferred location of shafts.
Natural System	<p>The alignment and shaft locations for the Leslie Street Trunk Sewer should avoid Haynes Lake and associated PSWs. Provide the invert elevation of Haynes Lake to the profile on Drawing C1-D221 to confirm the depth of cover.</p>	<p>Designs have only been developed, at this point, at a concept level and locations of alignments and other works have not been confirmed. These features have been used to inform the current concept designs and the methods of construction that are anticipated. For a large majority of the features, the alignments of the sanitary trunk sewers are being constructed by tunnelling methods to minimize impacts on those natural features. Further review and assessment of the natural features and potential impacts will be used to inform the preferred location of shafts.</p>
Natural System	<p>On Drawing C1-D220, the 4000 m2 construction compound adjacent to MHS02 is situated within a PSW that is also classified as contributing Redside Dace habitat. It has come to TRCA's attention that unauthorized works have occurred on the property which have removed/impacted the PSW. An alternative site should be considered as this matter will be further investigated. Should you require further information please contact me directly.</p>	<p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a PSW or redside dace habitat this will be reviewed in subsequent stages of design to meet TRCA requirements through the consultation and permit application process.</p>
Natural System	<p>The proposed 12000 m2 construction compound adjacent to MH S08A on Drawing C1-D202 will displace unevaluated wetlands. Consider reconfiguring the shape of the compound to avoid wetlands.</p>	<p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within proximity to a wetland this will be reviewed in subsequent stages of design to meet TRCA requirements through the consultation and permit application process.</p>
Natural System	<p>On Drawing C1-D202, the construction compound at MH 01 will involve removal of an unevaluated wetland and natural feature. Alternatives sites and/or reconfiguration of the compound should</p>	<p>Designs have been developed at a concept level and locations of construction compounds and other works have not been confirmed. If any structures are within</p>

Type of Concern	TRCA Comment	How the Comment Was Considered
	be considered.	proximity to a wetland or natural feature this will be reviewed in subsequent stages of design to meet TRCA requirements through the consultation and permit application process.
Stormwater Management	Drawing Y2-C2 illustrated a proposed sanitary sewer alignment crossing two existing ponds. TRCA recommends a further investigation in the proposed alignment of the sanitary system to avoid crossing two existing ponds, if possible.	The proposed sanitary sewer will be tunneled below the two existing ponds. Impact to the ponds are not anticipated. The preferred alignment will be further reviewed and refined during the preliminary design stage to determine opportunities to avoid crossing ponds.
Watercourse Crossings	Through TRCA's staff previous experience, there are numerous locations where there are watercourses being conveyed in roadside ditches, which need to be clearly identified and avoided. For example, on Leslie Street south of Bethesda Sideroad, and south of Stouffville Road. Staff are available to conduct a site visit to assist in identifying these locations.	The current concept design has been developed with only limited data in regard to watercourses. For the next stage of design, field investigations will be completed to determine the design parameters that will meet the TRCA requirements through the consultation and permit application process.
Watercourse Crossings	On Drawing Y2-C11, there are two 1350 mm pipes proposed to cross under the Rouge River. Provide bed, bank and thalweg elevations for the river as well as the proposed obvert of the pipes and ensure there is a minimum of 2.0 m clearance between the thalweg of the river and the pipes. The rate of downcutting by the river in this location should be considered, as well as the effects of climate change which may result in the pipes having to be deeper. Update the design to ensure that a minimum of 2.0 m clearance from the obvert of the pipe to the invert of the watercourse is provided at all crossing locations. Update all drawings as applicable.	The current concept design has been developed with only limited data in regard to bed, bank, and thalweg elevations. For the next stage of design, topographical information will be collected to determine the design parameters that will meet the TRCA requirements. We've added the following statement to the drawing: "The pipe cover will be examined upon the completion of the Rouge riverbed survey during the preliminary design stage."
Watercourse Crossings	On Drawing C1-D220, identify all the existing culvert/watercourse crossing locations on the plan and profile view of the drawing to clearly demonstrate that a minimum 2.0 m clearance is provided between the obvert of the sanitary pipe to the invert of the watercourse. For example, it is challenging to determine the clearance separation provided between the existing watercourse and the proposed sanitary pipe at ~Sta. 1+500.	The current drawing package is designed to a conceptual level, more detailed information will be provided in subsequent drawing packages as the project progresses. The detailed engineering drawings will address specific requirements and provide precise details on culvert and watercourse locations.
Geotechnical	Provide detailed engineering drawings for the proposed works at	Detailed engineering drawings that are issued for

Type of Concern	TRCA Comment	How the Comment Was Considered
Engineering	the detailed design stage. Note that all engineering drawings should be signed and sealed by a licensed Professional Engineer.	construction will be signed and sealed by a licensed Professional Engineer.
Slope Stability	Clarify if any structures are being proposed near steep slopes. If yes, a slope assessment be conducted during detailed design to accurately delineate the long-term stable top of slope (LTSTOS) and clearly shown on plans, as appropriate. The slope analyses be included in the geotechnical investigation. Further, note that any proposed structures will have to be sufficiently setback from the LTSTOS.	Designs have only been developed, at this point, at a concept level and locations of alignments and other works have not been confirmed. If any structures are confirmed to be within proximity to steep slopes, a geotechnical analysis and a slope stability assessment will be carried out in subsequent stages of design to meet TRCA requirements through the consultation and permit application process.
Site Grading	At detailed design, provide a site grading plan for the proposed works. If significant site grading work is required, then a geotechnical engineer be retained to provide appropriate site grading recommendations. The site grading recommendations to be included in the geotechnical study.	During the next stages of design, site grading plans will be developed for the proposed works and a geotechnical study will be included for areas of significant grading.
Erosion and Sediment Control	At detailed design stage, provide Erosion and Sediment Control (ESC) measures and plans for TRCA's review. Ensure TRCA ESC guidelines are used in developing the site-specific ESC plans.	Erosion and sediment control plans will be part of the final design and will utilize the TRCA guidelines and consultation with TRCA as part of the plan development.
Shoreline Hazard	<p>The Duffin Creek WPCP expansion is in proximity of Lake Ontario and the proposed new outfall is within Lake Ontario. Be advised that TRCA regulatory authority extends to its jurisdictional boundary including the bed of Lake Ontario. A qualified coastal engineer should be retained to carry out a shoreline hazard study to accurately delineate the shoreline hazard limit. This will inform the level of risk and form the foundation on which approvals and location/design of structures/infrastructure will be based, as well as increase the resiliency of the Region's investment. Submit a shoreline hazard study report during detailed design. For further information, refer Section 7.4.3.4 Lake Ontario Shoreline Hazards in The Living City Policies.</p> <p>Note that TRCA peer review consultant fees will apply to the review of the shoreline hazard study as it is not part of the York Region Service Level Agreement. For more information, refer TRCA Fee Schedule.</p>	A qualified coastal engineer will be part of the design team for the Duffin Creek WPCP new outfall design. A shoreline hazard study will be part of the design package that supports any permitting and approvals necessary for construction.

Type of Concern	TRCA Comment	How the Comment Was Considered
Hydrogeology / Groundwater / Dewatering	<p>Note that expansion of the YDSS sewer to the Duffin Creek WPCP may have the potential for large scale dewatering with drawdown impacts that could extend for kilometres from the sewer alignment. The risk for this dewatering is highest for deep tunnelled sections and in particular, shafts. This dewatering could result in impacts to wetlands and watercourses, and an increase in erosion at discharge location(s). These impacts can be mitigated by optimizing the alignment to avoid deep tunnelling/shafts in highly permeable confined aquifers.</p> <p>As discussed during the meeting on August 10, 2023, TRCA notes that hydrogeological data are not yet available for this project. As this project proceeds to detailed design, it is advised that special attention be paid to the hydrogeologic conditions in the vicinity of any proposed shafts, and that deep tunnel and shaft construction methodologies be employed such that dewatering requirements are minimized. It is recommended that shafts be constructed without the need for dewatering to minimize potential impacts to groundwater fed natural features such as wetlands and watercourses. The above approach was used for the YDSS project along 19th Avenue between Bayview Avenue and Leslie Street.</p> <p>Hydrogeological knowledge gained from the previous YDSS projects should be utilized to inform both the alignment at the conceptual stage and construction methodologies at detailed design. Consultation with TRCA staff should occur as soon as hydrogeological information is available.</p> <p>a. An Environmental Management Plan (EMP) is likely required for the proposed works and should comply with TRCA's EMP Guidelines .</p> <p>i. All Zones of Influence for any dewatering is required on the air photos to determine if the ZOI's may affect wetlands, watercourses or other sensitive natural features. All dewatering outlets need to be clearly identified on the plans and should avoid direct discharge to any natural features. The dewatering rates need to be</p>	<p>At this stage in the development of concept designs, only desktop analysis of the geotechnical and hydrogeological conditions within the area that is anticipated to be impacted by construction has been carried out. To inform the next stage of design, a geotechnical scope of work and a hydrogeological scope of work will be developed and executed to provide the project teams with the information required to further the designs and answer the questions in regard to potential impacts and required design changes or mitigation measures.</p> <p>Hydrogeological information from previous YDSS projects has been considered at the concept design stage and will be further reviewed and considered in the next stages of design. Consultation with the TRCA will be carried out during the development of the designs to inform design decisions, the need for mitigation measures and the requirements for Environmental Management Plans.</p> <p>a. An EMP will be part of the consultation with TRCA during the subsequent stages of design to confirm requirements.</p> <p>b. The geotechnical and hydrogeotechnical scopes of work will include the requirements for borehole and monitoring locations.</p>

Type of Concern	TRCA Comment	How the Comment Was Considered
	<p>below the erosion thresholds of all receiving watercourses. This will need to be clearly outlined in the EMP.</p> <p>b. Borehole information is required along the pipe alignment and at shaft locations. Add borehole data to the cross sections including groundwater levels.</p>	
TRCA Owned Lands	<p>The conceptual designs indicate locations near TRCA Owned Lands. Confirm if TRCA land will be required as part of the proposed works including shafts, manholes, access, staging and stockpiling area. TRCA comments provided as a landowner are separate from comments provided under a technical, advisory, or regulatory role.</p> <p>Acquisition and Easement: If TRCA owned land transfer or easements are a requirement for the implementation of the preferred alternative, permission, and approval from TRCA and the Minister of Natural Resources and Forestry are required. The design must demonstrate that TRCA program and policy objectives are met. Formal approval typically takes 12 to 18 months from the completion of the EA Document. Contact Edlyn Wong, Senior Property Agent, Edlyn.wong@trca.ca for additional information.</p> <p>Permission to Enter: If TRCA owned land access is required for the purpose of completing technical studies associated with this project, a Permission To Enter (PTE) must be obtained from TRCA Property prior to entry. Contact Desiree Sampson, Property Coordinator, at desiree.sampson@trca.ca for additional information.</p> <p>Archaeological Resources: An archaeological review by TRCA's archaeological must precede any disturbance to TRCA owned land. If an archaeological assessment is required, scheduling will be subject to weather, seasonal programs and other field work and are at additional cost to the proponent.</p>	<p>Designs for the proposed works have progressed only to a concept level and as such, land requirements have been reviewed at only a preliminary review stage. As the designs progress to preliminary design, the land requirements will be refined and during that process, the TRCA, and any other land owners that may be impacted will be consulted with to confirm any requirements for land transfers, easements, permits and/or additional studies.</p>

Type of Concern	TRCA Comment	How the Comment Was Considered
	Contact Alistair Jolly, Archaeologist at Alistair.jolly@trca.ca for additional information.	
Advisory Comment	Shaft locations should avoid proximity to the heronry located in North Leslie, Richmond Hill to avoid noise impacts to the heronry. The heronry is located on the east side of Leslie Street, south of 19th Avenue. The proposed work area at 19th Avenue and Leslie Street is within the noise influence zone of the heronry. Timing restrictions for noise generating work may be required and limited to outside of the nesting season. For further information, contact the City of Richmond Hill.	Designs have only been developed, at this point, at a concept level and locations of shafts and other works have not been confirmed. If any structures are confirmed to be within proximity to the heronry, noise bylaws will be reviewed in subsequent stages of design to meet TRCA requirements through the consultation and permit application process.

Appendix I

Notice of Project Report

Project Report Available for Public Comment

York Region Sewage Works

In the Towns of East Gwillimbury, Newmarket, Aurora, Ajax and
Cities of Markham, Richmond Hill and Pickering

The Regional Municipalities of York and Durham are working together to carry out the York Region Sewage Works Project, a long-term wastewater infrastructure project across the Towns of East Gwillimbury, Newmarket, Aurora, Ajax and the Cities of Richmond Hill, Markham and Pickering.

As required by the *Supporting Growth and Housing in York and Durham Regions Act, 2022*, the York Region Sewage Works Project will increase the existing York Durham Sewage System, including new or expanded wastewater sewers, pumping stations and enhancements to the Duffin Creek Water Pollution Control Plant on the shore of Lake Ontario in the City of Pickering. Durham Region will support proposed work in the City of Pickering as part of the project.

The Act requires York Region and Durham Region to submit a Project Report outlining infrastructure components and costs, impacts to the environment and how those impacts will be mitigated. Figure 1 contains maps showing wastewater infrastructure components.

The York Region Sewage Works Project Report has been submitted to the Minister of the Environment, Conservation and Parks for approval, in accordance with the Act. The Project Report is publicly available at york.ca/sewageproject

COMMENTS

Comments on the York Region Sewage Works Project Report can be submitted by **Thursday, November 30, 2023** to:

York Region
York Region Sewage Works Project
Public Works
17250 Yonge Street
Newmarket, Ontario L3Y 6Z1
1-877-464-9675 ext. 75124
YorkRegionSewageWorks@york.ca

Comments will be considered by York Region, Durham Region and the Minister of the Environment, Conservation and Parks during review and approval of the Project Report.

An accessible version of materials and printed copies are available upon request.

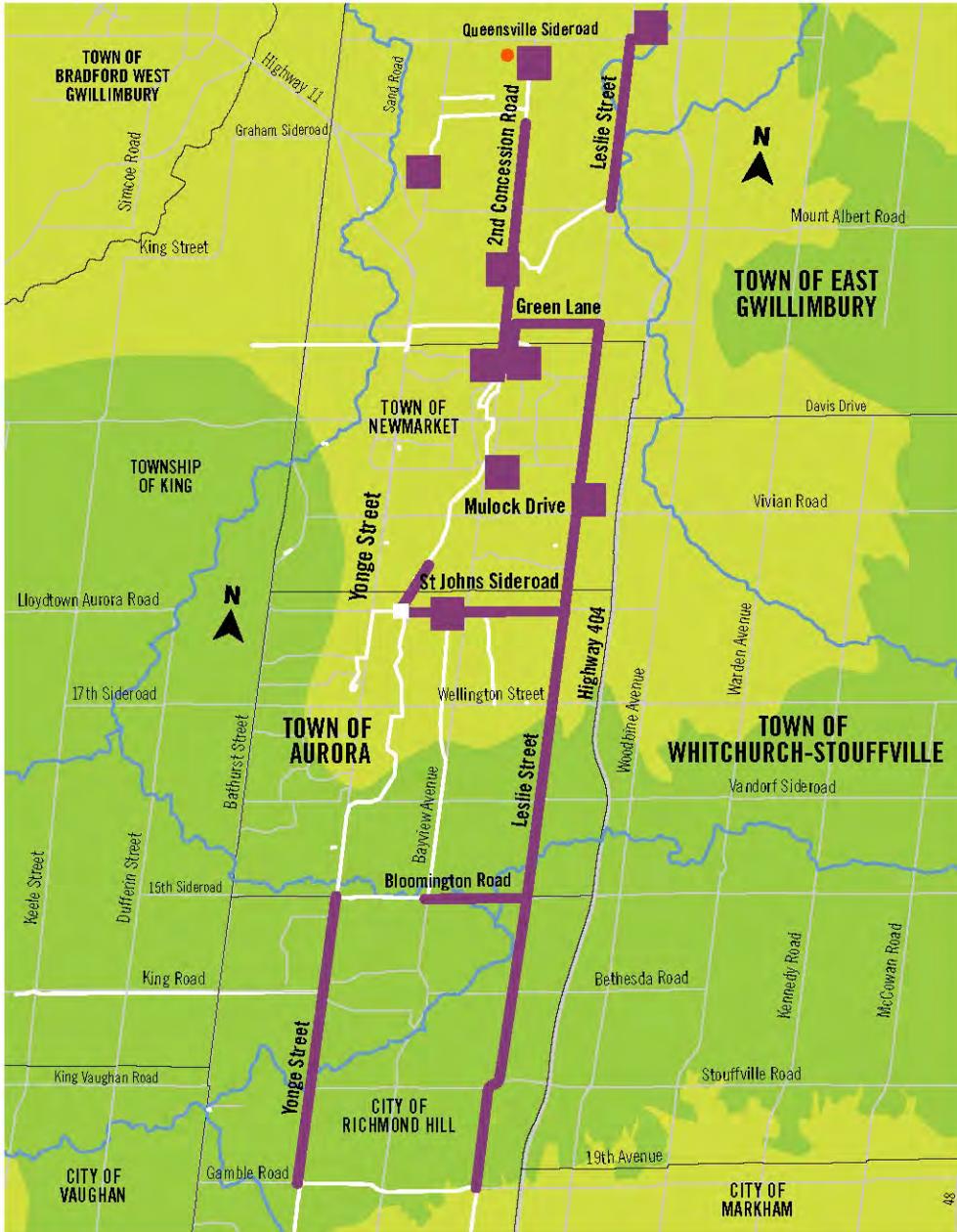
Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the *Municipal Freedom of Information and Protection of Privacy Act and Supporting Growth and Housing in York and Durham Regions Act, 2022* for consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request that your personal information remain confidential.



Visit york.ca/sewageproject to review the Project Report and to sign up for project updates.
This notice was issued on Tuesday, October 31, 2023.

Figure 1 – Wastewater infrastructure components

North York Durham Sewage System Expansion



South York Durham Sewage System Expansion



York Durham Sewage System Primary System Expansion



Project Components

- North YDSS Expansion
- South YDSS Expansion
- YDSS Primary System Expansion

Legend

- Existing York Durham Sewage System
- Municipal Boundary
- Oak Ridges Moraine
- New or Expanded Pumping Stations or Duffin Creek Plant Expansion
- New Trunk Sewer and/or Forcemain or Modifications to Existing Sewer
- New Wastewater Treatment Plant Outfall
- Holland Landing Lagoons Decommissioning