Appendix M

Public Consultation (Part 2 of 2)

Appendix M-4
Agency and Utility Consultation

Appendix M-1 – Public Consultation Report
Appendix M-2 – Environmental Assessment Study Notices
Appendix M-3 – Public Information Centre Materials
Appendix M-4 – Agency and Utility Consultation
Appendix M-5 – First Nations Consultation
Appendix M-6 – Public Consultation Details and Correspondence

Agencies and Utilities Contacted:

- Beanfield Metroconnect
- Bell Canada
- Canada Lands Corporation
- Canada Post Delivery
- CN Rail
- Cogeco Data Services Inc./Aptum Technologies (Canada) Inc.
- CP Rail
- Enbridge Gas Distribution (UTILITY)
- Enbridge Gas Distribution Inc.
- Enbridge Pipeline Inc.
- Environment Canada, Great Lakes and Corporate Affairs
- Enwave Energy Corporation
- GO Transit and Metrolinx
- Hydro One Inc.
- Hydro One Networks Inc.
- Imperial Oil
- Infrastructure Ontario
- MECP
- Metro Fibrewerx
- Metrolinx
- Ministry of Community Safety and Correctional Services
- Ministry of Heritage, Sport, Tourism and Cultural Industries
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of the Environment and Climate Change
- National Defence Canada
- Ontario Power Generation
- Prestige Telecom
- Rogers Cable
- Rogers Cable Systems
- Rogers Telecommunications
- Sun-Canadian Pipe Line Company Ltd.
- TELUS
- TeraSpan
- Toronto & Region Conservation Authority
- Toronto Hydro
- Trans Northern Pipe Line
- Transport Canada
- Videotron Ltd.
- Zayo (formerly Allstream)
- Zoya Group

From:	Yellow Creek
To:	"robert.greene@ontario.ca"; "karla.barboza@ontario.ca"; "dan.minkin@ontario.ca"; "stewart.Chisholm@ontario.ca"; "maya.harris@ontario.ca"; "steven.strong@ontario.ca"; "renee.afoom-boateng@trca.on.ca"; "chunmei.liu@ontario.ca"; "eanotification.cregion@ontario.ca"; "troy@beanfield.com"; "sharmila.kumar@telecon.ca"; "joe.bevacqua@bell.ca"; "blake.stutley@bell.ca"; "danselmi@clc.ca"; "proximity@cn.ca"; "UtilityCirculations@aptum.com"; "Brad.Swant@aptum.com"; "josie_tomei@cpr.ca"; "orest_rojik@cpr.ca"; "ann.newman@enbridge.com"; "ekriarakis@enwave.com"; "james.scharbach@enwave.com"; "Tyler.Wales@HydroOne.com"; "kirk.t.smoke@esso.ca"; "bmclean@metrofibrewerx.com"; "Paul.Collins@metrolinx.com"; "susan.rapin@opg.com"; "GT.moc@telecon.ca"; "Edgar.Henriquez@rci.rogers.com"; "John.Lionti@rci.rogers.com"; "GTA.Markups@rci.rogers.com"; "Ralph.vonEppinghoven@rci.rogers.com"; "bobbi.hunter@rci.rogers.com"; "john.lionti@rci.rogers.com"; "Info@sun-canadian.com"; "Anthony.Segreto@telus.com"; "telusutilitymarkups@telecon.ca"; "tpucc@teraspan.com"; "utility.circulations@torontohydro.com"; "vvolokitin@torontohydro.com"; "seedgar@tnpi.ca"; "landroweast@tnpi.ca"; "richard.ntoneepeeing@videotron.com"; "david.pitchforth@zayo.com"; "Utility.Circulations@zayo.com"; "shannon.mcneill@metrolinx.com"; "SecondaryLandUse@HydroOne.com"; "dawn-ann.metsaranta@ontario.ca"; "clare.pineau@ontario.ca"; "paul.d.martin@ontario.ca"; "susan.golets@ontario.ca"; "darja.keith@ontario.ca"; "carol.oitment@ontario.ca"; "karla.barboza@ontario.ca"; "Laura.E.Hatcher@ontario.ca"; "rosi.zirger@ontario.ca"; "susan.golets@ontario.ca"; "darja.keith@ontario.ca"; "carol.oitment@ontario.ca"; "peter.chackeris@ontario.ca"; "Susan.Rapin@opg.com"; "tammy.wong@opg.com"; "Rory.McGuckin@tcdsb.org"; "john.malloy@tdsb.on.ca"
Subject:	Notice of Commencement: Yellow Creek Geomorphic Systems Master Plan
Date:	January 5, 2021 2:57:00 PM
Attachments:	Yellow-Creek_Notice-Study-Commence.pdf

Hello,

This email is to inform you about the **Yellow Creek Geomorphic Systems Master Plan** being carried out by the City of Toronto. Attached is a copy of the Notice of Commencement.

Please contact me to indicate if you are:

- interested in providing input regarding this study; and
- how your agency would like to participate

If I do not hear back, you will be kept on the contact list and you will continue to receive project updates.

Thanks,

Kate Kusiak
Public Consultation
416-392-1932

www.toronto.ca/yellowcreek

From:	Yellow Creek
Bcc:	michael.vallins@cn.ca; Janice.Page@enbridge.com; Mark-Ups@enbridge.com; brent.valere@dfo-mpo.gc.ca; wesley.plant@canada.ca; shannon.mcneill@metrolinx.com; SecondaryLandUse@HydroOne.com; ramsen.yousif@infrastructureontario.ca; noticereview@infrastructureontario.ca; Joanna.Brown@infrastructureontario.ca; ainsley.davidson@infrastructureontario.ca; EnviroOnt@tc.gc.ca; dan.l.thompson@ontario.ca; aurora.mcallister@ontario.ca; Davor.Javorac@cn.ca; SecondaryLandUse@HydroOne.com; robert.greene@ontario.ca; karla.barboza@ontario.ca; dan.minkin@ontario.ca; stewart.Chisholm@ontario.ca; maya.harris@ontario.ca; steven.strong@ontario.ca; Beth.Williston@trca.ca; Sharon.Lingertat@trca.ca; chunmei.liu@ontario.ca; eanotification.cregion@ontario.ca; troy@beanfield.com; ken.elliott@bell.ca; Bell.MOC@Telecon.ca; tara.causton@bell.ca; anthony.pejovic@bell.ca; danselmi@clc.ca; proximity@cn.ca; UtilityCirculations@aptum.com; Brad.Swant@aptum.com; josie_tomei@cpr.ca; orest_rojik@cpr.ca; notifications@enbridge.com; ekriarakis@enwave.com; james.scharbach@enwave.com; Tyler.Wales@HydroOne.com; kirk.t.smoke@esso.ca; bmclean@metrofibrewerx.com; Paul.Collins@metrolinx.com; susan.rapin@opg.com; GT.moc@telecon.ca; Edgar.Henriquez@rci.rogers.com; John.Lionti@rci.rogers.com; GTA.Markups@rci.rogers.com; Ralph.vonEppinghoven@rci.rogers.com; bobbi.hunter@rci.rogers.com; john.lionti@rci.rogers.com; Info@sun-canadian.com; Anthony.Segreto@telus.com; telusutilitymarkups@telecon.ca; tpucc@teraspan.com; utility.circulations@torontohydro.com; vvolokitin@torontohydro.com; seedgar@tnpi.ca; landroweast@tnpi.ca; richard.ntoneepeeing@videotron.com; david.pitchforth@zayo.com; Utility.Circulations@zayo.com
Subject:	Notice of Public Consultation for Yellow Creek
Date:	November 15, 2023 5:05:00 PM
Attachments:	Yellow Creek_2b EA PublicConsultation Notice_1108_FINAL to print.pdf image001.png

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Dear Agencies and Utilities,

The City of Toronto has initiated a study to identify sewer and watermain infrastructure within Yellow Creek that are at risk of erosion from high flows due to storms and snow melt.

This study looks at how the City's storm sewer and watermain infrastructure can be protected within the creek using recommended solutions to help correct existing impacts and reduce or prevent future impact. This will ensure the City's infrastructure continues to operate and service residents and businesses. The solutions will be part of a Geomorphic Systems Master Plan (GSMP) for the creek that is implemented over a multi-year period.

The study will meet the requirements for Master Plan studies as outlined in the Municipal Class EA process.

Following our evaluation of alternatives, the City is recommending four projects, which will be prioritised for implementation at a later stage. Information about the four projects is available in the virtual meeting presentation deck posted on the project web page Toronto.ca/YellowCreek.

A Virtual Public Meeting will be held Monday November 27, 2023. Please see the attached Notice of Consultation for details.

If you are interested in providing comments, please reach out to us by December 17, 2023.

We will continue to keep you informed on the study's progress.

Very Best,

Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto

416-338-2985
aadila.valiallah@toronto.ca

Date	Agency/ Utility	Name	Message	Response	Action/Notes
11/09/2023	CPKC (Canada Pacific)	Crystal Watts <Crystal.Watts@cpkcr.com>	\We received the attached letter today via registered mail # RN 724 958 060 CA. CPKC does not allow easements (whether temporary or permanent) to be registered on our property. I have cc'd Hans Lincourt on this email, please reach out to him should you require a temporary, fixed term, or long term access agreement to CPKC property for the Yellow Creek Restoration Project.		
11/16/2023	Network Locates	Teraspan OpsLocates <opslocates@teraspan.com>	We do not have any utilities in the immediate work area; therefore, this is clear. If you have any questions or concerns, please don't hesitate to contact us.		
2023-11-16	Metro Fibreewerx	Alex Smith <alexsmith@connectivitywerx.com>		MFW has no plant in the project area. Please find attached our Blanket Sign Off Letter for 2023. Valid to June 1, 2024. Please retain for future Utility Circulation requests.	attachment
2023-11-16	Bell	MOC (Bell) <bell.moc@Telecon.ca>	Locates request forwarded and we are copied		
2023-11-17	Environmental Assessment Program, Ontario Region	ONT Environment / Environnement ONT <EnviroOnt@tc.gc.ca>	Thank you for your correspondence. Please note Transport Canada does not require receipt of all Individual or Class EA related notifications. We request that project proponents self-assess whether their project: 1.Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at at www.tbs-sct.gc.ca/dfrp-rbif/; and 2.Will require approval and/or authorization under any Acts administered by Transport Canada* available at http://www.tc.gc.ca/eng/acts-regulations/menu.htm. Proposed projects that will occur on federal property (including reserve lands or lands owned by federal departments other than Transport Canada) will be subject to an Impact Assessment per Section 82 of the Impact Assessment Act, 2019 prior to exercising a federal power (including full or partial funding), and/or performing a function or duty (e.g. regulatory approval or issuance of a lease) in relation to that project. If the criteria above do not apply, Transport Canada's 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 to: EnviroOnt@tc.gc.ca with a brief description of Transport Canada's expected role. *A summary of the most common Acts that apply to projects in an Environmental Assessment context were forwarded with the communication.		attachment
2023-11-19	To the TRCA	David J Agro <dagro@davidagro.ca>	Are you aware of this work being done by the City of Toronto? It looks like this is reason for the spray paint markings I noticed and originally contacted you about. https://www.toronto.ca/community-people/get-involved/public-consultations/infrastructure-projects/yellow-creek-geomorphic-systems-master-plan/ Given the very real problems due to the lack of coordination by the City and TRCA for the Rosehill Reservoir – especially related to storm water shedding and outflow from that property and lack of protection of the ravine, I hope there can be more coordination this time. As an example, if you proceed with the work we discussed below in the short term, it will probably be entirely undone by what is being prosed for the scope of work to deal with sewers and storm sewers. If they redo the sewer system, the amount of heavy equipment, excavating and grading required for that type of work, will have a massive impact on the whole ravine system. It would be better to wait to fix the creek bed until after the sewer work is done. I have copied the people I think are in charge of this at the city in hopes we can avoid some misalignments and disasters in the ravine.	The City is in regular contact with TRCA regarding plans for Yellow Creek. Based on this contact, we note that TRCA's current design assignment for Yellow Creek below Summerhill Gardens is to address an urgent erosion risk in the near-term using previously used access routes. Conversely, the low priority recommended solution identified in the study, shown on slides 18 and 24 of the online presentation, is a much longer-term consideration that will be guided by monitoring to determine where and when intervention is needed. Given the differing priority levels, TRCA's work needs to advance ahead of the City's project. Further, the City's long-term project would look to improve the channel in its existing alignment and work in concert with the improvements constructed by TRCA.	email thread with TRCA saved as pdf in Agency folder

2023-12-07	TRCA	Zack Carlan <Zack.Carlan@trca.ca>		Thank you for informing us of this PIC. I've sent Daniel our preferred next steps for TRCA's review of this master plan.	
2024-01-17	Hydro One	SECONDARY LAND USE Department <Department.SecondaryLandUse@hydroone.com>	HydroOne reposnse_attached letter saved in: "G:\SUP\PublicPA\C-Water\Geomorphic Systems\Yellow\Stakeholders and Comment Tracking_AV\Agencies"	Please see the attached for Hydro One's Response.	attachment

January 13, 2021

CFN 64293

BY E-MAIL ONLY (yellowcreek@toronto.ca)

Kate Kusiak
Senior Public Consultation Coordinator
Metro Hall, 19th Floor, 55 John Street
Toronto, ON
M5V 3C6

Dear Ms. Kusiak,

Re: Response to Notice of Study Commencement
Yellow Creek Geomorphic Systems Master Plan
Municipal Class Environmental Assessment – Master Plan
Don Watershed; City of Toronto

Toronto and Region Conservation Authority (TRCA) staff received the Notice of Commencement for the above noted Environmental Assessment (EA) on January 5, 2021. As a recognized commenting agency under the Ontario Environmental Assessment Act, TRCA has interests in this project.

PROJECT OVERVIEW

It is TRCA staff understanding that the City of Toronto is undertaking this Municipal Class Environmental Assessment (EA) to identify sewer and watermain infrastructure in Yellow Creek that is at risk of erosion from high flows due to storms and snow melt runoff. The study will evaluate and recommend solutions to reduce these erosion risks through an assessment of Yellow Creek's geomorphology (stream processes). The general study area follows Yellow Creek between Mount Pleasant cemetery at Heath Street East, to south of an existing rail corridor, west of Mount Pleasant Road in the City of Toronto.

The study will focus on:

- Identifying sewers, watermains and outfalls located within Yellow Creek that are at risk from erosion caused by flows from storms and snow melt runoff
- Developing, evaluating, and recommending solutions to reduce erosion impacts on sewers and watermains, while improving aquatic and terrestrial habitats

The proposed study will be undertaken as a Master Plan under the Municipal Class Environmental Assessment Study process under the Ontario Environmental Assessment Act. Public and agency participation will be a key component of the study.

TRCA COMMENTING ROLES

As detailed in TRCA's 2014 **The Living City Policies** (LCP), TRCA has a number of commenting roles relative to its review of this environmental assessment, including:

1. Regulatory Authority
2. Delegated Provincial Interests
3. Public Commenting Body
4. Resources Management Agency
5. Service Provider
6. Land Owner

These are further detailed in **Appendix A: TRCA Commenting Roles**.

TRCA AREAS OF INTEREST

In relation to this application, TRCA staff has identified a number of areas of interest within the study area related to these various commenting roles, including:

1. TRCA Program and Policy Areas
    a. Natural System Programs and Policies
    b. Sustainability Programs and Policies
2. Provincial Program Areas
3. Federal Program Areas

Further details are provided in **Appendix B: TRCA Areas of Interest**.

In relation to these areas of interest, please be advised that TRCA has select digital data available through an open data platform on the TRCA website that should be used to supplement the existing conditions analysis in the development of the environmental assessment. Upon request, TRCA can provide additional data for areas of interest not available on the web. Please contact the undersigned as needed.

ASSESSMENT OF ALTERNATIVES

In developing, evaluating and selecting alternatives, staff require the LCP policies be considered. TRCA staff recommends the preferred alternative meets the policies of Section 7. In particular, impacts to and opportunities for the following should be addressed:

1. Flooding, erosion or slope instability
2. Existing landforms, features and functions
3. Aquatic and terrestrial habitat and functions, including connectivity
4. TRCA property and heritage resources
5. Environmental best management practices that support climate change mitigation and adaptation
6. Community and public realm benefits

TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to the ecosystem, and avoid, mitigate or remediate hazards, in that order. In order to fulfil requirements of Ontario Regulation 166/06 at the detailed design stage, staff also requires that the preferred alternative meets LCP policies in Section 8.

In order to ensure TRCA concerns are addressed early in the review process, it is recommended that the TRCA planner be contacted when key project milestones are reached, as detailed in **Appendix C:**

Recommended Contact Points. Prior to selecting any preferred alternative solutions and design, please arrange a meeting to discuss issues that relate to our program and policy concerns. Please also contact the planner to discuss the appropriate time for a site visit; please ensure the TRCA planner is included in the technical advisory committee; and please add Nancy Gaffney , Government and Community Relations Specialist to the project mailing list to receive any public information updates

SUBMISSION REQUIREMENTS

As this project proceeds through the various stages of the environmental assessment process, please ensure the following is provided to TRCA for review and comment as the appropriate time:

Digital Submissions

1. All technical advisory committee meeting agendas, as well as draft and final meeting minutes
2. All TRCA technical meeting agendas, as well as draft and final meeting minutes
3. Draft public information boards, prior to public review
4. Notices of public meetings, including final display material and handouts
5. Draft Phase 1 and 2 Report, if applicable
6. Draft technical reports and associated materials, including a covering letter that outlines the project purpose and lists the reports enclosed for review
7. Draft evaluation criteria and matrices, including a summary that details how the criteria and weighting (if applicable) were established
8. Draft EA document, including a covering letter that outlines how previous TRCA comments have been addressed
9. Final EA document, including a covering letter that outlines how previous TRCA comments have been addressed
10. Ensure all materials are submitted in PDF format, with drawings pre-scaled to print on 11”x17” pages.
11. Materials submitted through e-mail must be less than 25 MB.
12. Materials submitted through a file transfer protocol (FTP) site must be posted a minimum of two weeks.

Please note, prior to submitting the technical reports and materials, as well as appendices related to the draft and final EA documents, it is recommended that the project manager be contacted so that review requirements can be scoped to the TRCA areas of interest.

REVIEW FEES

Please be advised that this application is subject to a $22, 575.00 application review fee (Master Plan – Standard) as per our 2018 Fee Schedule. Please note:

1. **To ensure accurate processing of your fee, please ensure your accounting department references CFN 64293 when making any payments.**
2. Payment method and timing must be noted in your covering letter response.
3. Additional fees are applied as per the fee schedule for reviews beyond three (3) submissions, including the final.
4. Payments can be made by:

a. Cheque: please attach the cheque to your resubmission. Alternatively, if sending separately through your accounting department, please request your accounting department submit the cheque to the attention of Oxana Stanislavskaya – Accounting Clerk, TRCA.
b. Credit Card: please contact Oxana Stanislavskaya at extension 6442 for payments made over the phone.
c. Electronic Fund Transfer: this option may be available through your accounting department.

Should you have any questions, please contact me at extension 5310 or at zack.carlan@trca.ca.

Regards,

Zack Carlan
Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A: TRCA Commenting Roles
Appendix B: TRCA Areas of Interest
Appendix C: Recommended TRCA Contact Points

BY E-MAIL

cc: TRCA: Beth Williston, Associate Director, Infrastructure Planning and Permits
Nancy Gaffney, Government and Community Relations Specialist
Don Ford, Senior Manager, Hydrogeology and Source Water Protection
Jaya Soora, Project Manager, Erosion Risk Management

Date: May 11, 2021 CFN 64293

BY E-MAIL ONLY (Daniel.McCreery@toronto.ca)

Daniel McCreery
Senior Engineer, Stormwater Management Infrastructure
Design & Construction, Linear Underground Infrastructure
Engineering & Construction Services
City of Toronto

Dear Mr. McCreery,

Re: Response to Draft Phase 1 and 2 Reports
City of Toronto Yellow Creek Geomorphic Master Plan
Municipal Class Environmental Assessment – Master Plan
Don River Watershed; City of Toronto; Toronto and East York Community Council Area

Toronto and Region Conservation Authority (TRCA) staff received the draft Phase 1 and 2 reports for the above-noted project on March 26, 2021.

PROJECT OVERVIEW

TRCA staff understand that the City of Toronto is currently undertaking the Yellow Creek Geomorphic Systems Master Plan (YCGSMP) which comprises a comprehensive investigation of the factors that have contributed to stream bed, bank, and erosion control infrastructure damage within the Yellow Creek channel in the City of Toronto. The study area for this project includes the aboveground reach of Yellow Creek within the Vale of Avoca between Mount Pleasant Cemetery and the crossing at Mount Pleasant Road. The investigation will guide the development of a long-term rehabilitation plan for Yellow Creek that will protect Toronto Water infrastructure while minimizing riparian ecosystem impacts and enhancing aquatic habitat. Work on the YCGSMP will take into consideration past and concurrent erosion control projects, assessments, and designs. The study will be completed within the framework of the Municipal Class Environmental Assessment process for Schedule B projects, with the integration of methodologies from the MNR *Adaptive Management of Stream Corridors* (2002) protocol.

The assessments and investigations conducted as part of the YCGSMP will identify Toronto Water infrastructure locations that cross beneath the channel, run parallel to the channel, or are within an eroding bank, to determine the amount of protection (depth of cover, lateral distance, toe protection, extent of exposure), the rate of change, and forecast how much time will elapse before the current degree of protection is lost and the infrastructure will either be exposed and/or potentially fail. The goal of the assessment is to identify High Risk sites along the study watercourse and prioritize the sites for restoration. Based on the results, conceptual restoration plans for High Priority sites will be developed.

This Phase 1 report established a problem/opportunity statement and summarized all of the reviewed background information for the site. The purpose of the Phase 2 Development of Alternative Solutions report is to further document the existing conditions, summarize the geomorphic, aquatic, and terrestrial assessments, evaluate the hazards to Toronto Water infrastructure, and assign a risk priority to identified sites.

PROJECT REVIEW

TRCA staff have reviewed the Draft Phase 1 and 2 Reports of the Master Plan process and have provided comments in line with TRCA's commenting role under the Environmental Assessment Act. It is understood that the City of Toronto will progress through four phases of the Master Plan process which does not include the Final Master Plan Report. City staff will continue to contact TRCA and consult with TRCA as the process moves forward to receive comments that are in line with the noted TRCA commenting roles. At this time, staff have provided the following comments as per **Appendix A.**

It is worth noting that TRCA Erosion Risk Management (ERM) staff have also provided comments/updates with respect to the TRCA proposed works that are currently underway within the Yellow Creek study area. TRCA IPP staff (as lead contact for this EA) and ERM staff will continue to coordinate as this Master Plan process moves forward.

REVIEW FEES

Please be advised that this application is subject to $22, 575.00 application review fee (Master Plan – Standard) as per our 2018 Fee Schedule.

1. **To ensure accurate processing of your fee, please ensure your accounting department references CFN 64293 when making any payments.**
2. Payment method and timing must be noted in your covering letter response.
3. Payments can be made by:
   a. Cheque: please attach the cheque to your resubmission. Alternatively, if sending separately through your accounting department, please request your accounting department submit the cheque to the attention of Oxana Stanislavskaya - Accounting Clerk, Finance Corporate Services, TRCA.
   b. Credit Card: please contact Oxana Stanislavskaya at extension 6442 for payments made over the phone.
   c. Electronic Fund Transfer: this option may be available through your accounting department.

Should you have any questions or require any additional information please contact me at extension 5310 or at zack.carlan@trca.ca.

Regards,

Zack Carlan
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A

BY E-MAIL

cc:

GHD	Jeff Doucette, Senior Geomorphologist
TRCA:	Sharon Lingertat, Senior Manager, Infrastructure Planning and Permits
	Jaya Soora, Project Manager, Erosion Risk Management
	Ashour Rehana, Manager, Erosion Risk Management

APPENDIX A: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (May 11, 2021)	PROPONENT/CONSULTANT RESPONSE
Planning Comments		
1.	Staff acknowledge that there will be four phases of this Master Plan process which does not include the final. It is understood these first two phases are generally functioning as existing condition reports and generally identify the sites, problem/opportunity statement and proposed approach as this process moves forward. Staff look forward to reviewing subsequent reports as each phase proceeds as TRCA staff will have additional comments within the context of TRCA's Living City Policies. We recommend that the City continue to involve TRCA staff as per Appendix A identified in the Notice of Commencement letter sent on January 13, 2021 and consult TRCA Living City Policies with respect to TRCA's policies and their incorporation into an important study such as the YCGSMP.	Noted
2.	As Yellow Creek is regulated by TRCA, implementation of the preferred alternatives will be subject to the requirements of Ontario Regulation 166/06. Staff will confirm requirements for each component of the implementation going forward as the additional phases of the Master Plan process continue. It is required that in subsequent reports it is mentioned that permits are required for all implementation of the Yellow Creek GSMP as the entire area is regulated by TRCA.	Reference to permit requirements have been included in the YCGSMP report.
3.	Please note that the study area traverse one of the City's Basement Flooding study areas (44) that has just initiated the EA process. We encourage the City to discuss project options with the applicable BF project managers to ensure that projects from both studies are coordinated to avoid duplication of efforts, institute improvements to the system, and minimize impacts to the natural system to the extent possible.	YCGSMP staff have consulted with the applicable BF project managers and have reviewed the public consultation presentation. At this time, no works are identified that would require coordination.
4.	Staff are pleased a section on climate change and climate change assessment has been included in the Master Plan Phase 1 and 2 Reports. Staff recommend that additional phases (and final) of the master plan process continue to incorporate climate change impacts and address promoting mitigation and adaptation through the implementation of the Yellow Creek GSMP.	Noted. A climate change assessment is included in the YCGSMP report.
5.	It is recommended that the City explore the existing conditions of the Yellow Creek study to assess options that look to generally avoid locating any new infrastructure within the natural system (watermains, sanitary, etc.) and if infrastructure is required	The study does not recommend the introduction of new watermains or sewers within the natural system.

	to be moved or relocated due to associated risks/damage, that the City assess opportunities for moving the subject infrastructure outside the natural system of Yellow Creek. It is understood, considering the system, that there are constraints in some instances with full relocation, but it is recommended by TRCA staff for the City to explore this.	Toronto Water's YCGSMP is a state of good repair project designed to protect Toronto Water underground piped-like assets where stream erosional processes cause excessive risk to these assets. There are no sanitary sewers in Yellow Creek, only a transmission main crossing and a few storm sewer outfalls. <u>Transmission Main Risk from Stream Erosion Processes</u> Three alternatives for the YCGSMP are evaluated: (i) null option, (ii) local works, and (iii) sub-reach scale works. As a part of sub-reach scale works, either channel works, or a combination of channel works and transmission main works, are examined. There are no plans over the next 20 years to relocate or replace the Rosehill Reservoir/Yellow Creek transmission main. Given the YCGSMP reflects an approximate 20-year planning horizon, the City has reviewed plans for the Rosehill Reservoir/Yellow Creek transmission main. Toronto Water can advise that any potential future works on this system will likely involve rehabilitation with lining techniques, to extend the asset life for another 50 plus years. In addition, there are not currently any defined projects which would require expansion of the transmission main capacity that would be triggered by population growth. Accordingly, Toronto Water can advise that the valley-based Rosehill Reservoir/Yellow Creek transmission main is essentially staying where it is for this current planning horizon. <u>Storm Sewer Risk from Stream Erosion Processes</u> The major erosion risk to storm sewers is stream erosion at outfalls or erosion caused by the segmenting of pipes connected to the storm outfall. Toronto has approximately 3600 Toronto Water outfalls over its 63,000 ha with an average storm sewer catchment area of 24 ha. Removal of storm sewers and outfalls from the stream corridor, defined as a warm water corridor of 10 m on either side of Yellow Creek's centerline, is not advised.

		For example, a significant number of outfalls discharge at the top of tablelands, or part way down the valley wall or ravine slope and cause significant erosion downstream of the outfall. This erosion is caused by concentrated flow and leads to significant downcutting of the intermittent channel and causes water quality degradation in the receiving waters due to the increased total suspended solids (TSS) loadings to the creek or river. One method of mitigating this erosion is by installing a storm pipe from the discharge point to the receiving waterbody – which is in contrast with the idea of removing sewers from the stream corridor. Another alternative is to install a "natural channel" to mitigate the erosion, however, that calls for repeated interventions on steep slopes to address erosion in the future years that may require rehabilitation every 10 to 15 years. It is City staff's observation that having a storm outfall discharging close to the creek provides an overall greater benefit to reducing erosion from concentrated flow from storm sewers. To mitigate the effects of storm pipe discharges, the City's modified design practice is twofold (i) to attempt to angle the discharge at a 45 to 30 degree angle to the direction of creek flow, (ii) use armourstone as a head wall where feasible, rather than a concrete structure, and (iii) build a rock based drop structure and short flow channel to the creek to dissipate concentrated flow energy from the pipe discharge. Given the City's as built condition is largely outfalls at the creek channel, the City is not, in its GSMPs, exploring universal reconstruction of outfalls to be outside of the creek corridor. Rather, the City is simply attempting to return priority storm outfalls, that have been impacted by stream erosion processes, like channel incision causing outfall downcutting and undermining, or bend migration and bank erosion causing outfall channel erosion, to a state of good repair.

		The above design practices have been incorporated into the YCGSMP recommended solutions.
Water Resources Comments		
6.	While TRCA agrees with the fact that urbanization over the last 50 years has significantly increased runoff to Yellow Creek, without addressing the upstream storm water runoff as a best efforts retrofit scenario, TRCA staff are of the opinion that improvements to the Toronto Water infrastructure via only watercourse improvements will be short-lived. While watercourse improvements and restoration are absolutely required for this watercourse, the solution to the problem should be two-tiered, with upstream stormwater management retrofit solutions, and in-stream fluvial geomorphology design works to address the watercourse. Without one or the other, the solution will not be complete. This is also outlined in the Don River Watershed Plan: Beyond Forty Steps (TRCA 2019) as referenced in Section 2.2.4 of the Phase 2 report where the report summarizes the three strategic plans, including, re-build and retrofit our communities to restore water balance and improve the sustainability of the urban model. Typically addressing the smaller storms such as the annual 25mm 4 hour Chicago storm, and the 2-year will help, in addition to providing some type of on-site 5mm retention via a wetland type stormwater management facility for this area prior to discharge to Yellow Creek itself. It should be understood what cost-effective strategies are available to address the root of the problem and ensure that works proposed for this stream (immediate treatment measures) substantiate in the long-term and money is spent to resolve the problem once and for all. For example, as noted in the report, since the early 1970s, channel stabilization works have been implemented to protect infrastructure and private property. However, in 2021, the condition of Yellow Creek is still very unstable, despite the continuous efforts of channel stabilization. As such, it is imperative to provide some sort of resolution in the upstream catchment area of Yellow Creek to attenuate the flows, however, this is to ensure that Toronto Water infrastructure is once and for all protected, and the Yellow Creek watercourse is re-instated to provide a win-win solution for the watercourse and the Toronto Water infrastructure.	Noted. Assessing stormwater management solutions is not part of the scope of this study.
7.	In the problem opportunity statement, instead of minimizing riparian ecosystem impacts, the study should really explore enhancing riparian ecosystem environments as that will minimize stream erosion and increase the effectiveness of any proposed infrastructure improvements.	The recommended solutions are anticipated to result in maintaining and/or improving the natural habitat of the valley.

8.	As noted in the study, it is agreed that the severe erosion experienced within this watercourse over multiple decades is likely due to poor upstream stormwater management on the land or catchment basis. In addition, it appears that the channel works such as armourstones and gabion baskets which were put in place to reduce the erosion potential of watercourse, may actually be contributing to the erosive power of the stream by increasing velocities, reducing natural channel attenuation and not allowing for the channel to move within constraints of the valley as described below. a. Increasing velocities may occur when channel sinuosity is reduced and floodplain connectivity is compromised. As such, the proponent should investigate a channel restoration design that increases the sinuosity of the channel and also increases floodplain connectivity via dispersal of bankfull flows into wet pools or wetlands adjacent to the watercourse. b. Armourstones, gabions and other hardened solutions, exacerbate the conditions of flashy creeks due to urbanization, as they increase velocities; as such shrubs, trees and natural vegetation reinforced with boulders and cobbles should be explored as part of the channel restoration design, as this reduce velocities due to greater manning's n roughness as stream flow passes through these natural features and also provides for some uptake of the stream flow. c. When the channel is not allowed to move within the constraints of the valley walls, then it is likely lower sinuosity and less energy dispersion, which potentially causes failure and erosion of stream banks and bed as is noted in this report. As such, a channel restoration design should provide greater sinuosity. As such, site specific solutions are likely not effective in the long-term unless a full channel restoration study and works with greater sinuosity and floodplain connectivity are proposed, and then the alternative solutions are tied into these works. Please explore this type of solution in the assessment.	Sub-reach based solutions are recommended in the YCGSMP.
9.	For the Yellow Creek Source Outfall (Site 1), please explore whether mitigation measures can be applied immediately downstream of the outfall. For example, whether the low-lying area where the outfall discharges, set-back appropriately from the toe of slope, can be converted into a hybrid wet pond/wetland to store more water, to improve water quality, to reduce erosion, prior to discharge to the watercourse given the erosion potential in this area. To let water rest, dissipate	The Yellow Creek Source Outfall (Site 1) falls within the project area of TRCA's ongoing Yellow Creek near Heath Street East erosion control and slope stabilization environmental assessment. https://trca.ca/conservation/erosion-risk-management/restore/heath/

	energy prior to discharge to the main channel, or can be interconnected to low flow channel of the watercourse, this will help dissipate flows.	This comment should be directed to TRCA's Erosion Risk Management group for consideration. Assessing stormwater management solutions is not part of the scope of this study.
10.	**Reach YC-1** For Reach YC-1, please explore the following: a. It is noted that the entire creek in this stretch is hardened. This is likely causing increased velocities throughout this stretch. Please explore whether vegetated buttress or natural channel design with better connectivity to the low-lying floodplain riparian areas as wet pools or wetlands (provided as part of channel restoration design) will help with reducing erosive forces and velocities in this area. So instead of focusing on directing the water as fast as possible through the channel, the channel should have sinuosity (greater meanders) to help dissipate the energy of flow and create slower and longer flow paths (which help reduce erosion) and better connectivity to the floodplain areas (so that the greater than the 2-year design storm overtops the banks, and inundates the low-lying floodplain areas); all of this will help reduce erosion in the long-term. The creek has been hardened, with armourstone gabions and riprap, and the history of events and list of emergency works appears to demonstrate that this is not working for this area, as such, a more comprehensive solution is warranted. b. The outfall at St. Clair bridge (north side, west of Yellow Creek., Site 2) appears to be opposite the direction of flow, and should be re-aligned to an oblique angle to the watercourse via trenchless technologies, parallel to the direction of flow, i.e. downstream of the bridge. c. Site 3, The second outfall that runs south of and parallel to the St.Clair bridge, there appears to be an area at the corner of St. Clair Avenue and Inglewood Drive, that is TRCA regulated and may be a location where potential stormwater storage measure can be integrated.	The YCGSMP recommended solution for Reach YC-1 is Project 3 and addresses comment parts a) and b). Note, Site 3 is part of Reach YC-2. Assessing stormwater management solutions is not part of the scope of this study.
11.	**Reach YC-2** For Reach YC-2, please explore the following: a. Site 4, it appears that the outfall is in the opposite direction of river flow and should be re-aligned to an oblique angle to the watercourse via trenchless technologies, parallel to the direction of flow. b. Wooden pedestrian bridge on YC-2 appears to be a pinchpoint for the watercourse, and should be assessed and explored to be replaced with a larger span.	The YCGSMP recommended solution for Reach YC-2 are Projects 1A and 1B and addresses comment parts a), d) and f). Comment part c) will be reviewed at the future detailed design stage. Pedestrian bridge and trail items, comment parts b) and e), are not the focus of this study, however, recommendations

	c. Wet areas and swales within low lying flatter areas (not the valley slope) may potentially be cut into wet pools or wetlands inter-connected with the watercourse to provide resting, groundwater recharge and dissipate higher flows. d. Areas with erosion scars should have the minimum slope stability, but also shows how the watercourse movement is occurring, and may be used for designing the sinuosity of the watercourse. e. Re-aligning the trail path should be considered if needed. Existing grades in the floodplain area (outside of channel) should be kept to minimize cut/fill analysis. f. A more comprehensive channel restoration solution is warranted.	are made. Recommendations for the bridge and trails will be reviewed by others for future consideration and planning.
12.	**Reach YC-3** In YC-3, please explore the following: a. adjacent to Sites 5 and 6, there is enough on the east side of some of connectivity to the watercourse, some type of meandering to dissipate flows. Again, when a channel has little sinuosity, even with armour stone walls, it is possible that banks can slowly collapse and attempt to widen. A more comprehensive channel restoration solution is warranted. b. Re-aligning the trail path should be considered if needed. Existing grades in the floodplain area (outside of channel) should be kept to minimize cut/fill analysis.	The YCGSMP recommended solution for Reach YC-3 is Project 2 and addresses comment parts a). Trail items, comment part b), are not the focus of this study, however, recommendations are made. Recommendations for the trails will be reviewed by others for future consideration and planning.
13.	**Reach YC-4** Displaced armourstone in YC-4 shows the extent of the problem with just treating the areas only, as the solution is short-lived despite all the efforts to reduce erosion and protect infrastructure. As such, a comprehensive channel restoration is needed to fully address the erosion concerns in Yellow Creek.	The YCGSMP recommended solution for Reach YC-4 is Project 4 which addresses the comment.
Ecology Comments		

14.	The high level principles present in the Phase 1 and 2 reports provide reasonable direction to the Phase 3 and 4 reports related to minimizing and mitigating ecological impacts along with exploring opportunities to improve ecological function. The Phase 3 and 4 reports will likely be of greater interest as the Phase 1 and 2 reports function more as existing conditions reports. Please provide the future reports as part of the upcoming phases of this project for TRCA staff review	Noted.
Geotechnical Comments		
15.	Provided the valley slopes are steep in this area, and are generally located in proximity of the watercourse. Furthermore, some structures and development may exist close to the slope crest. Therefore, the solutions are preferred, which the excavations at the base of slope are minimized to avoid the adverse impacts on the slope stability during construction. Further, if the disturbance to implement the solutions are extensive, then the global stability is needed to be verified by a geotechnical engineer at the detailed design stage by a geotechnical engineer to ensure the suitability of the proposed solutions, and to avoid triggering instability for the valley slopes;	Noted. The recommended solutions seek to minimize slope stability disturbance. TRCA will be consulted in advance of future detailed design assignments to determine geotechnical requirements.
16.	At the detailed design, and based on the proposed solutions, the geotechnical and slope stability studies can be needed in support of the proposed design to ensure that they will be also acceptable from a geotechnical point of view;	Noted. TRCA will be consulted in advance of future detailed design assignments to determine geotechnical requirements.
Erosion Risk Management Comments – *the below comments are from TRCA ERM staff and are generally updates regarding the existing projects within the Yellow Creek GSMP Master Plan study area.*		
17.	**Draft Phase 1 Document:** • 3.2.5 • ERM staff are working on a supplementary geotechnical investigation to help refine the LTSSC (FOS 1.3) at Heath Crescent at the request of one of the property owners that resides here. We would be happy to share the results of this investigation with Toronto Water (TW) once the report is finalized. The results of the investigation will be used to update the Class EA Project Plan and inform the detailed design for a permanent stabilization solution. It is important to note that LTSSC line defined in Geoterre's assessment was based in a FOS of 1.5; there is a chance the number of as-risk dwellings will decrease using a FOS 1.3. • 3.2.6	Given the time that has passed since these comments were provided, please review the latest text in the YCGSMP report and advise if any edits are required.

	• Stabilization measures at Rose Park Crescent have been substantially completed and final restoration is anticipated in Spring 2021
	  • ERM staff can share the as-built drawing if it would help GHD refine the HEC-RAS model and/or floodplain mapping
	  • Additional cleanup efforts will be completed by TRCA forces later this Spring/Summer to clean up the former retaining wall and deck that had slid into the floodplain
	
	• 3.3.2
	  • ERM staff have advised Urban Forest Renewal to postpone final restoration efforts until TRCA has planned and implemented repairs to the emergency works below Summerhill Gardens, tentatively in 2022
	  • ERM staff have shared the as-built drawing with TW and GHD so they can update their modelling of existing conditions
	
	• 3.3.3
	  • Please revise title to “Yellow Creek below Heath Street East Erosion Control and Slope Stabilization Project”.
	  • Please remove reference to “interim works”. TRCA initiated the detailed design process for a section of the channel spanning from the source outfall near Mount Pleasant Cemetery to 14 Rose Park Crescent.
	  • Last year, TRCA issued a soft launch of the Class EA Project Plan to all interested stakeholders to receive their input on TRCA’s planning and evaluation process for the project. We received lots of support and positive feedback relating to our proposed works, however, some concerns were raised regarding the level of risk to dwellings in study area that require TRCA to further investigate before we can continue moving forward with the project.
	  • ERM staff are confident that we will be able to complete our additional investigative work this year (LTSSC update), formally file the Class EA Project Plan, and finalize the detailed designs for channel works (Phase 1). With these objectives in mind, construction of the channel works is tentatively slated to occur in late 2022, pending the receipt of all necessary permits and approvals
	
	• 3.5.7
	  • ERM staff completed CCTV inspections of both outfalls and pipes at this site in an attempt to determine their source
	  • ERM staff can share the videos with TW and GHD upon request	

	• 3.5.9 • ERM staff retained Andrews Engineer to provide risk mitigation measures for the watermain as it was located along/under our construction access route during implementation of our emergency works below Summerhill Gardens • We'd be happy to share the risk mitigation measures with TW if they feel it would be beneficial at this stage of the EA or for future detailed design work • 4.1 – TRCA Ongoing Projects • TRCA supplied the as-built survey for the YC emergency works below Summerhill Gardens. • Please reach out to Jaya to request another copy • A geotechnical investigation is currently underway along 38 – 86 Summerhill Gardens to establish an LTSSC for the study area • ERM staff plan to coordinate meetings with landowners in summer 2021 to explain the results of the geotechnical investigation and offer work at properties where long-term risk is identified. Please reach out to Jaya for details and timelines for finalization of the report • ERM has not collected turbidity data, but one flow gauge was set up in 2018. Please reach out to Jaya Soora to request this data • 4.3 • ERM staff had our Aquatic Monitoring team survey the watercourse ahead of our emergency works and they found no fish ○ We can share any available reports/data if required	
18.	**Draft Phase 2 Document:** • 2.2.5 - See comment for Phase 1 3.2.5 above • 2.2.6 - See comment for Phase 1 3.2.6 above • 2.3.2 - See comment for Phase 1 3.3.2 above • 2.3.3 - See comment for Phase 1 3.3.3 above	Given the time that has passed since these comments were provided, please review the latest text in the YCGSMP report and advise if any edits are required.

	• 2.4 - Geotech investigation for Summerhill Gardens underway currently as well as a follow-up geotech study at 7 Heath Street East • We can provide copies of reports once finalized. • 2.12.7 - See comment for Phase 1 3.5.7 above • 2.13 - TRCA has two ongoing projects and one study (Summerhill Gardens)	

October 22, 2024 CFN 64293

BY E-MAIL ONLY (Daniel.McCreery@toronto.ca)

Daniel McCreery
Senior Engineer
City of Toronto
Metro Hall, 19th Floor
55 John Street,
Toronto, ON M5V 3C6

Dear Daniel McCreery,

Re: Response to Draft Master Plan
City of Toronto Yellow Creek Geomorphic Master Plan
Municipal Class Environmental Assessment – Master Plan
Don River Watershed; City of Toronto; Toronto East York Community Council Area

These comments respond to the Draft Master Plan received by Toronto and Region Conservation Authority (TRCA) for the above-noted project on August 9, 2024.

PROJECT OVERVIEW

TRCA staff understand that the City of Toronto is currently undertaking the Yellow Creek Geomorphic Systems Master Plan (GMCGSMP) which comprises a comprehensive investigation of the factors that have contributed to stream bed, bank, and erosion control infrastructure damage within the Yellow Creek system in the City of Toronto. As one of five ongoing GSMP's across the City, this work will identify and assess water and storm sewer infrastructure in Yellow Creek that is at risk of erosion from high flows due to storms and snow melt runoff. The study area for this project includes the 1.3 km aboveground reach of Yellow Creek within the Vale of Avoca between Mount Pleasant Cemetery and the downstream inlet structure upstream of the crossing of Mount Pleasant Road. At-risk Toronto Water infrastructure within the study area includes: six stormwater outfalls with associated storm sewer pipes, one channel inlet at the downstream limit of the watercourse, one stormwater/reservoir discharge outfall, one watermain crossing, and one watermain adjacent to the watercourse within 5 meters of the bank.

The Master Plan allows for an integrated planning approach for Yellow Creek within the City of Toronto, and a methodology for implementing the necessary rehabilitation efforts. Work on the YCGSMP will take into consideration past and concurrent erosion control projects, assessments, and designs. The study will be completed within the framework of the Municipal Class Environmental Assessment process for Schedule B projects, with the integration of methodologies from the MNR *Adaptive Management of Stream Corridors* (2002) protocol. The assessments and investigations conducted as part of the YCGSMP will identify Toronto Water infrastructure that is at risk. The goal of the assessment is to identify high risk sites along the study watercourse and prioritize the sites for restoration. Based on the results, conceptual restoration plans for high priority sites will be developed.

PROJECT REVIEW

TRCA staff have reviewed the Draft Report as part of the Master Plan process and have provided comments in line with TRCA's commenting role under the Environmental Assessment Act. It is understood that the City of Toronto will progress through Phases 1, 2 and 5 of the Master Plan process. City staff will continue to contact TRCA and consult with TRCA as the process moves forward to receiving comments that are in line with the noted TRCA commenting roles. At this time, staff have provided the following comments as per **Appendix B.**

It is worth noting that TRCA Erosion Risk Management (ERM) staff have also provided comments/updates with respect to the TRCA proposed works that are currently underway within the Yellow Creek study area. TRCA IPP staff (as lead contact for this EA) and ERM staff will continue to coordinate as this Master Plan process moves forward.

COMMENTING ROLE

Staff have reviewed the study area associated with this project in accordance with the Conservation Authorities Act, including mandatory commenting on Planning Act and Environmental Assessment Act applications. TRCA undertakes review and commenting functions in accordance with The Living City Policies.

RESUBMISSION REQUIREMENTS

1. Follow the TRCA Digital Submission Requirements for Environmental Assessment Documents to ensure all required information is provided in future submissions.
2. Please ensure the Final Report as part of the Master Plan, responses to TRCA comments and all updated reports part of the Master Plan are provided to TRCA staff for review.
3. This application is subject to a **$19, 465.00** application review fee as per our Fee Schedule. For payment options, refer to How to Pay TRCA Review Fees. Ensure your accounting department references **CFN 64293** when making payment.

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

Regards,

Zack Carlan

Zack Carlan
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services
Telephone: 1-437-880-2396
Email: zack.carlan@trca.ca

Attached: Appendix A: Documents Reviewed by TRCA
Appendix B: TRCA Comments and Proponent Responses
Enclosed: Appendix B: TRCA Comments and Proponent Responses, WORD digital file for consultant/proponent response purpose

BY E-MAIL

cc:

GHD:	Jeff Doucette, Senior Geomorphologist
TRCA:	Zack Carlan, Senior Planner, Infrastructure Planning and Permits
	Sharon Lingertat, Senior Manager, Infrastructure Planning and Permits
	Ashour Rehana, Senior Manager, Erosion Risk Management

APPENDIX A: DOCUMENTS REVIEWED BY TRCA

DOCUMENTS REVIEWED

1. Yellow Creek Geomorphic Systems Master Plan, Draft Master Plan; prepared by GHD.; dated July 2024; received by TRCA on August 9, 2024;

APPENDIX B: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (October 22, 2024)	PROPONENT/CONSULTANT RESPONSE
Planning Ecology Comments		
1.	It's unclear how the hydrologic function of the identified wetland communities in the project area will be maintained. Given the scope of the project, wetland hydrology may be impacted. Please ensure that the future phases of the study demonstrate that wetland hydrology and vegetation will be maintained. Please add to the EA document and resubmit to TRCA staff for review.	A commitment to address this at detailed design has been added to Section 10.5.2.
Planning Comments		
2.	Staff acknowledge that the Master Plan falls under Schedule B of the Municipal Class Environmental Assessment process which includes Phases 1 and 2 including identification of the preferred solution and mandatory public consultation and documentation, before moving to Phase 5 (Implementation). Staff look forward to reviewing the Final Master Plan Report, please provide when available with all relevant revisions requested by staff.	Acknowledged.
3.	As Yellow Creek is regulated by TRCA, implementation of the preferred alternatives will be subject to the requirements of the Conservation Authority Act. Staff will confirm requirements for each component of the implementation going forward. It is required that in the Final EA it is mentioned that permits are required for all implementation of the Yellow GSMP as the entire area is regulated by TRCA.	A reference to TRCA permits being required during implementation is noted in Section 10.5.2 of the Master Plan.
4.	Please note that the study area traverses one of the City's Basement Flooding study areas (44) that is in the EA process. We encourage the City to discuss project options with the Basement Flooding project to ensure that the Master Plan studies are coordinated to avoid duplication of efforts, institute improvements to the system, and minimize impacts to the natural system to the extent possible. Will this GSMP be directly coordinated with BFPP Area 44 to ensure that	YCGSMP staff have consulted with the applicable BF project manager and have reviewed the public consultation presentation. At this time, no works are identified that would require coordination. The City will continue to monitor for coordination opportunities going forward.

	repetitive intervention for erosion protection is avoided in years to come? While the GSMP's purpose is to address erosion concerns within the Yellow Creek system alone. If upstream stormwater management is not considered (one of the sources of the erosion problem), then the erosion concerns could potentially continue, in which the City would then need to continue intervention in to the watercourse. TRCA staff recommend coordination with the BFPP EA in this regard and suggest that it is outlined in the EA document if applicable.	
5.	It has been recommended that the City explore the existing conditions of the Yellow Creek study to assess options that look to generally avoid locating infrastructure within the natural system (watermains, sanitary, etc.) and if infrastructure is required to be moved or relocated due to associated risks/damage, that the City assess opportunities for moving the subject infrastructure outside the natural system of Yellow Creek. However, It is understood that there are constraints in some instances with abandonment or full relocation , especially for Yellow Creek, given the highly urbanized nature of this watercourse. Please add a section to the Draft Master Plan to provide detailed justification in the EA document indicating why this is not an alternative that is being considered.	Toronto Water's YCGSMP is a state of good repair project designed to protect Toronto Water underground piped-like assets where stream erosional processes cause excessive risk to these assets. There are no sanitary sewers in Yellow Creek, only a transmission main crossing and a few storm sewer outfalls. <u>Transmission Main Risk from Stream Erosion Processes</u> Three alternatives for the YCGSMP are evaluated: (i) null option, (ii) local works, and (iii) sub-reach scale works. As a part of sub-reach scale works, either channel works, or a combination of channel works and transmission main works, are examined. There are no plans over the next 20 years to relocate or replace the Rosehill Reservoir/Yellow Creek transmission main. Given the YCGSMP reflects an approximate 20-year planning horizon, the City has reviewed plans for the Rosehill Reservoir/Yellow Creek transmission main. Toronto Water can advise that any potential future works on this system will likely involve rehabilitation with lining techniques, to extend the asset life for another 50 plus years. In addition, there are not currently any defined projects which would require expansion of the transmission main capacity that would be triggered by population growth. Accordingly, Toronto Water can advise that the valley-based Rosehill Reservoir/Yellow Creek transmission main is essentially staying where it is for this current planning horizon. <u>Storm Sewer Risk from Stream Erosion Processes</u> The major erosion risk to storm sewers is stream erosion at outfalls or erosion caused by the segmenting of pipes connected to the storm outfall.

		Toronto has approximately 3600 Toronto Water outfalls over its 63,000 ha with an average storm sewer catchment area of 24 ha. Removal of storm sewers and outfalls from the stream corridor, defined as a warm water corridor of 10 m on either side of Yellow Creek's centerline, is not advised. For example, a significant number of outfalls discharge at the top of tablelands, or part way down the valley wall or ravine slope and cause significant erosion downstream of the outfall. This erosion is caused by concentrated flow and leads to significant downcutting of the intermittent channel and causes water quality degradation in the receiving waters due to the increased total suspended solids (TSS) loadings to the creek or river. One method of mitigating this erosion is by installing a storm pipe from the discharge point to the receiving waterbody – which is in contrast with the idea of removing sewers from the stream corridor. Another alternative is to install a "natural channel" to mitigate the erosion, however, that calls for repeated interventions on steep slopes to address erosion in the future years that may require rehabilitation every 10 to 15 years. It is City staff's observation that having a storm outfall discharging close to the creek provides an overall greater benefit to reducing erosion from concentrated flow from storm sewers. To mitigate the effects of storm pipe discharges, the City's modified design practice is twofold (i) to attempt to angle the discharge at a 45 to 30 degree angle to the direction of creek flow, (ii) use armourstone as a head wall where feasible, rather than a concrete structure, and (iii) build a rock based drop structure and short flow channel to the creek to dissipate concentrated flow energy from the pipe discharge. Given the City's as built condition is largely outfalls at the creek channel, the City is not, in its GSMPs, exploring universal reconstruction of outfalls to be outside of the creek corridor. Rather, the City is simply attempting to return priority storm outfalls, that have been impacted by stream erosion processes, like channel incision. causing outfall downcutting and undermining, or bend migration and bank erosion causing outfall channel erosion, to a state of good repair. The above points have been included in the Final Master Plan Report in Section 8.

6.	The EA document speaks to natural channel design or an engineered natural channel design, but there is no supporting information describing exactly what this is. Conceptual drawings of engineered natural channel design appear to show rip rap and armour stone. Please revise the EA document to include this information/drawings and provide for staff review. It is understood not all details may be available at this time.	Additional detail has been added in Section 10.2.1 on the potential bed and bank treatments that could be considered.
7.	Impacts associated with flood and erosion hazards have not been assessed in a detailed format yet - they will need to be fully addressed as part of future detailed design as that is required for a permit to be issued for any of the project areas. City will need to ensure that there will be no impacts on flooding, erosion or slope instability to upstream, downstream or adjacent properties in future stages. Exact requirements to be identified at detailed design (ex: detailed hydraulic analysis).	Acknowledged.
8.	With regard to detailed design projects, options that avoid or minimize impacts need to be considered and the area of natural system occupied for construction disturbance needs to be minimized.	Acknowledged.

Appendix M-5
First Nations Consultation

Appendix M-1 – Public Consultation Report
Appendix M-2 – Environmental Assessment Study Notices
Appendix M-3 – Public Information Centre Materials
Appendix M-4 – Agency and Utility Consultation
Appendix M-5 – First Nations Consultation
Appendix M-6 – Public Consultation Details and Correspondence

From:	Liu, Chunmei (MECP)
To:	Tracy Manolakakis
Cc:	Kate Kusiak; Daniel McCreery; Papageorgiou, Agni (MECP)
Subject:	RE: City of Toronto Geomorphic Studies
Date:	October 2, 2020 10:24:56 AM
Attachments:	A Proponent"s Introduction to the Delegated Aspects of Consultation with.pdf

Good morning Tracy,

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

- Mississaugas of the Credit First Nation;
- Six Nations of the Grand River;
- Haudenosaunee Confederacy Chiefs Council; and
- Huron-Wendat Nation (only if there are potential archeological impacts)

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "Code of Practice for Consultation in Ontario's Environmental Assessment Process".

Additional information related to Ontario's *Environmental Assessment Act* is available online at: www.ontario.ca/environmentalassessments

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information.

The proponent must contact the Director of Environmental Assessment Branch under the following circumstances subsequent to initial discussions with the communities identified by MECP:

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

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

Should you or your project team members have any questions regarding the material above, please contact me for further discussion.

Thank you,

Chunmei Liu | Regional EA and Planning Coordinator
Environmental Assessment Branch, **Ontario Ministry of the Environment, Conservation and Parks**
Chunmei.Liu@ontario.ca | Website: http://www.ene.gov.on.ca/
If you have any accommodation needs or require communication supports or alternate formats, please let me know.
Si vous avez des besoins en matière d'adaptation, ou si vous nécessitez des aides à la communication ou des médias substituts, veuillez me le faire savoir.

From: Tracy Manolakakis <Tracy.Manolakakis@toronto.ca>
Sent: August-24-20 10:57 AM
To: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>
Cc: Kate Kusiak <Kate.Kusiak@toronto.ca>; Daniel McCreery <Daniel.McCreery@toronto.ca>
Subject: City of Toronto Geomorphic Studies

Hi Chunmei,

Please find attached letters concerning the initiation of two Municipal Class EA studies being undertaken by the City of Toronto:

- Yellow Creek Geomorphic Systems Master Plan
- Mimico Creek Geomorphic Systems Master Plan

If you have any questions about the studies, please contact Kate Kusiak, copied on this email.

We look forward to receiving your correspondence.
Tracy

Tracy Manolakakis
Manager, Public Consultation
City of Toronto
P: 416-392-2990
Email: tracy.manolakakis@toronto.ca

Tracy Manolakakis
Manager, Public Consultation

Policy, Planning,
Finance & Administration

Program Support
Metro Hall, 19th Floor
55 John Street
Toronto, ON M5V 3C6

Reply to: Kate Kusiak
Public Consultation Unit
Tel: 416-392-1932
Fax: 416-392-2974
TTY: 416-338-0889
Email: kate.kusiak@toronto.ca

January 5, 2021

Six Nations of the Grand River
2498 Chiefswood Rd
PO Box 5000
Ohsweken, ON N0A 1M0

Re: Archaeology Study – Yellow Creek Geomorphic Systems Master Plan, Municipal Class Environmental Assessment

Hello Mississaugas of the Credit First Nation,

The City of Toronto is carrying out the Yellow Creek Geomorphic Systems Master Plan. The purpose of the study is to identify sewer and watermain infrastructure in Yellow Creek that is at risk of erosion from high flows due to storms and snow melt runoff. The study will evaluate and recommend solutions to reduce these erosion risks through an assessment of Yellow Creek.

This study will document input and comments from all interested stakeholders to determine the final recommended solutions to protect this infrastructure. All stakeholders will be provided with an opportunity to review, comment and discuss all alternative solutions.

For your reference, we have attached a copy of the Notice of Commencement (including study area map) and Stage 1 Archaeological Assessment.

- Notice of Commencement (January 5, 2021)
- Stage 1 Archaeological Assessment Yellow Creek Geomorphic System Master Plan Part of Lots 16-18, Concession II from the Bay and Part of Lot 20, Concession III from the Bay (Former Township of York, County of York), City of Toronto, Regional Municipality of York, ASI, 17 June 2020

Further information about the study can be found at toronto.ca/yellowcreek

You will be notified again at the following stage:

- Public Information Centre (PIC) – Alternative Solutions

Please note, only a Stage 1 Archaeological Assessment is being undertaken as part of this study. In the case future construction work is required, as a result of this study's recommendations, any potential future Stage 2 Archaeological Assessments will be sent to you for review and comment.

Your input is important. If you have comments about the Stage 1 Archaeological Assessment, require additional information, or would like to meet with the City to discuss this project further, please contact me at your earliest convenience.

Sincerely,

Kate Kusiak

Kate Kusiak
Public Consultation Unit
City of Toronto

cc: Daniel McCreery, P.Eng., Engineering & Construction Services, City of Toronto

TORONTO

Tracy Manolakakis
Manager, Public Consultation

Policy, Planning,
Finance & Administration

Program Support
Metro Hall, 19th Floor
55 John Street
Toronto, ON M5V 3C6

Reply to: Kate Kusiak
Public Consultation Unit
Tel: 416-392-1932
Fax: 416-392-2974
TTY: 416-338-0889
Email: kate.kusiak@toronto.ca

January 4, 2021

Haudenosaunee Confederacy Chiefs Council
2634 Sixth Line
Ohsweken, ON N0A 1M0

Re: Archaeology Study – Yellow Creek Geomorphic Systems Master Plan, Municipal Class Environmental Assessment

Hello Haudenosaunee Confederacy Chiefs Council,

The City of Toronto is carrying out the Yellow Creek Geomorphic Systems Master Plan. The purpose of the study is to identify sewer and watermain infrastructure in Yellow Creek that is at risk of erosion from high flows due to storms and snow melt runoff. The study will evaluate and recommend solutions to reduce these erosion risks through an assessment of Yellow Creek.

This study will document input and comments from all interested stakeholders to determine the final recommended solutions to protect this infrastructure. All stakeholders will be provided with an opportunity to review, comment and discuss all alternative solutions.

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Further information about the study can be found at toronto.ca/yellowcreek

You will be notified again at the following stage:

- Public Information Centre (PIC) – Alternative Solutions

Please note, only a Stage 1 Archaeological Assessment is being undertaken as part of this study. In the case future construction work is required, as a result of this study's recommendations, any potential future Stage 2 Archaeological Assessments will be sent to you for review and comment.

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Sincerely,

Kate Kusiak

Kate Kusiak
Public Consultation Unit
City of Toronto

cc: Daniel McCreery, P.Eng., Engineering & Construction Services, City of Toronto

Tracy Manolakakis
Manager, Public Consultation

Policy, Planning,
Finance & Administration

Program Support
Metro Hall, 19th Floor
55 John Street
Toronto, ON M5V 3C6

Reply to: Kate Kusiak
Public Consultation Unit
Tel: 416-392-1932
Fax: 416-392-2974
TTY: 416-338-0889
Email: kate.kusiak@toronto.ca

January 4, 2021

Mississaugas of the Credit First Nation
Department of Consultation and Accommodation (DOCA)
4065 Hwy 6
Hagersville, ON N0A 1H0

Re: Archaeology Study – Yellow Creek Geomorphic Systems Master Plan, Municipal Class Environmental Assessment

Hello Mississaugas of the Credit First Nation,

The City of Toronto is carrying out the Yellow Creek Geomorphic Systems Master Plan. The purpose of the study is to identify sewer and watermain infrastructure in Yellow Creek that is at risk of erosion from high flows due to storms and snow melt runoff. The study will evaluate and recommend solutions to reduce these erosion risks through an assessment of Yellow Creek.

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- Stage 1 Archaeological Assessment Yellow Creek Geomorphic System Master Plan Part of Lots 16-18, Concession II from the Bay and Part of Lot 20, Concession III from the Bay (Former Township of York, County of York), City of Toronto, Regional Municipality of York, ASI, 17 June 2020

Further information about the study can be found at toronto.ca/yellowcreek

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- Public Information Centre (PIC) – Alternative Solutions

Please note, only a Stage 1 Archaeological Assessment is being undertaken as part of this study. In the case future construction work is required, as a result of this study's recommendations, any potential future Stage 2 Archaeological Assessments will be sent to you for review and comment.

Your input is important. If you have comments about the Stage 1 Archaeological Assessment, require additional information, or would like to meet with the City to discuss this project further, please contact me at your earliest convenience.

Sincerely,

Kate Kusiak

Kate Kusiak
Public Consultation Unit
City of Toronto

cc: Daniel McCreery, P.Eng., Engineering & Construction Services, City of Toronto

Yellow Creek

From: Yellow Creek
Sent: November 15, 2023 5:36 PM
To: 'maxime.picard@cnhw.qc.ca'
Subject: Yellow Creek: Notice of Public Consultation
Attachments: Yellow Creek_2b EA PublicConsultation Notice_1108_FINAL to print.pdf; Public Notice Huron Wendat.pdf

Dear Treaty Partners,
In an attempt to draft personalised emails, I have accidently merged to email and circulated individual emails from my personal mail box to all staff for each Nation.
The email also had a typo in the greeting which I was expecting to edit.
The information within the email is otherwise correct.
I am attaching the Public Notice for your information and including a copy of the email content.

Kindly respond to the project mailbox yellowcreek@toronto.ca.

Respectfully,

Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Yellow Creek

From: Yellow Creek
Sent: November 15, 2023 5:35 PM
To: '1749resource@gmail.com'
Subject: Yellow Creek: Notice of Public Consultation
Attachments: Yellow Creek_2b EA PublicConsultation Notice_1108_FINAL to print.pdf; Public Notice Haudenosaunee Confederacy Chiefs Council.pdf

Dear Treaty Partners,
In an attempt to draft personalised emails, I have accidently merged to email and circulated individual emails from my personal mail box to all staff for each Nation.
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The information within the email is otherwise correct.
I am attaching the Public Notice for your information and including a copy of the email content.

Kindly respond to the project mailbox yellowcreek@toronto.ca.

Respectfully,

Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Yellow Creek

From: Yellow Creek
Sent: November 15, 2023 5:33 PM
To: 'Stacey.LaForme@mncfn.ca'
Cc: 'Fawn.Sault@mncfn.ca'; 'doca@mncfn.ca'; 'Darin.Wybenga@mncfn.ca'; 'Megan.DeVries@mncfn.ca'; 'Mark.LaForme@mncfn.ca'
Subject: Yellow Creek: Notice of Public Consultation
Attachments: Public Notice Mississaugas of the Credit FN.pdf; Yellow Creek_2b EA PublicConsultation Notice_1108_FINAL to print.pdf

Dear Treaty Partners,
In an attempt to draft personalised emails, I have accidently merged to email and circulated individual emails from my personal mail box to all staff for each Nation.
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The information within the email is otherwise correct.
I am attaching the Public Notice for your information and including a copy of the email content.

Kindly respond to the project mailbox yellowcreek@toronto.ca.

Respectfully,

Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Yellow Creek

From: Yellow Creek
Sent: November 15, 2023 5:31 PM
To: 'markhill@sixnations.ca'; 'lonnybomberry@sixnations.ca'
Subject: Yellow Creek: Notice of Public Consultation
Attachments: Public Notice Six Nations of the Grand River.pdf; Yellow Creek_2b EA PublicConsultation Notice_1108_FINAL to print.pdf

Dear Treaty Partners,
In an attempt to draft personalised emails, I have accidently merged to email and circulated individual emails from my personal mail box to all staff for each Nation.
The email also had a typo in the greeting which I was expecting to edit.
The information within the email is otherwise correct.
I am attaching the Public Notice for your information and including a copy of the email content.

Kindly respond to the project mailbox yellowcreek@toronto.ca.

Respectfully,
Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Indigenous communities contacted

1. Mississauguas of the Credit First Nation
2. Six Nations of the Grand River
3. Haudenosaunee Chiefs Council
(4. Huron Wendat, only if there is Arch potential)

Study milestone	Milestone description & steps	Initial contact date	Follow-up date
Study Commencement	Inform community of the study purpose, area and opportunities for input.	01/05/2021	
PIC – Alternative Solutions/Evaluation	Inform community of the study alternative solutions/evaluation and opportunity to provide comment.	11/15/2023	
Archaeology Report	Provide a copy of the Stage 1 archeological report.	01/05/2021	
PIC – Recommended Design (Schedule C)	Inform community of the study recommendations and opportunity to provide comment.	11/15/2023	

From: Peter Graham
To: Yellow Creek
Subject: [External Sender] RE: Yellow Creek: Notice of Public Consultation
Date: November 16, 2023 9:56:50 AM
Attachments: image001.png

Good morning Aadila,

We're particularly interested in advocating for soft infrastructure along the creek bed. As the specific restoration methods will be determined after the study's complete (why is that?), we're asking you to reach out to us then.

Thank you, Peter

From: Lonny Bomberry <lonnybomberry@sixnations.ca>
Sent: Wednesday, November 15, 2023 9:29 PM
To: Peter Graham <LRCS@sixnations.ca>
Subject: Fwd: Yellow Creek: Notice of Public Consultation

Get Outlook for iOS

From: Yellow Creek <yellowcreek@toronto.ca>
Sent: Wednesday, November 15, 2023 5:30:53 PM
To: Mark B. Hill <markhill@sixnations.ca>; Lonny Bomberry <lonnybomberry@sixnations.ca>
Subject: [External] Yellow Creek: Notice of Public Consultation

Dear Treaty Partners,
In an attempt to draft personalised emails, I have accidently merged to email and circulated individual emails from my personal mail box to all staff for each Nation.
The email also had a typo in the greeting which I was expecting to edit.
The information within the email is otherwise correct.
I am attaching the Public Notice for your information and including a copy of the email content.

Kindly respond to the project mailbox yellowcreek@toronto.ca.

Respectfully,
Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Comment Tracking

Date	Indigenous community	Name	Response Method	Message	Response
01/06/2021	Mississaugas of the Credit First Nation	Megan DeVries	Megan.DeVries@mncfn.ca	Thank you for providing the Stage 1 AA of Yellow Creek Geomorphic Systems Master Plan. Please note that, in order to continue maintaining DOCA capacity for fulsome project participation, DOCA charges for technical review of project information. In the exercise of its stewardship responsibility, DOCA seeks to work together with project proponents and their archaeological consultants to ensure that archaeological work is done properly and respectfully. DOCA has retained technical advisers with expertise in the field of archaeology. These experts will review the technical aspects and cultural appropriateness of the archaeological assessments and strategies associated with your project. Upon completion of these reviews, MCFN will identify, if necessary, mitigation measures to address any project impacts upon MCFN rights. For cultural materials and human remains, DOCA may advise that this includes ceremonies required by Anishinaabe law, as well as request adjustments to the proposed fieldwork strategy. The proponent is expected to pay the costs for MCFN to engage in a technical review of the project. DOCA anticipates at this time that all archaeological review will be undertaken by in-house technical experts, but will advise the proponent if an outside peer-review is required. Please find attached the agreement that covers MCFN's inhouse technical review of the archaeological assessments and strategies associated with your project(s). If you could please fill in the additional required information, highlighted in yellow, and return to us a signed copy, that would be greatly appreciated. After we have received it, we can execute the contract on our end and return the completed contract to you. Afterwards, we will proceed with report review.	I've shared your letter and agreement with the project team and are currently reviewing this with our legal services staff. We will contact you once this review has taken place and will offer a meeting or conference call to discuss how we can work together.
01/26/2021	Mississaugas of the Credit First Nation	Megan DeVries	Megan.DeVries@mncfn.ca	I am just writing to follow up the request below. Any update you can provide would be appreciated.	Hello Megan, I've shared your letter and agreement with the project team and are currently reviewing this with our legal services staff. We will contact you once this review has taken place and will offer a meeting or conference call to discuss how we can work together. Thank you for your patience,
09/01/2020	Mississaugas of New Credit	*Megan DeVries*	*Email*	*Clarification - Stage 1 Arch Report from Yellow Creek with Stage 2 Arch Report for St Clair Outfall. Prior to Notice of Commencement.*	Acknowledged receipt September 2, 2020
09/15/2020	**Mississaugas of New Credit**	Megan DeVries	Email	Follow up if she had any questions	No response received
09/15/2020	Mississaugas of New Credit	Megan DeVries	Phone	Follow up if she had any questions and left a voicemail.	No response received

Date	Indigenous community	Name	Response Method	Message	Response
2023-11-16	Six Nations	Peter Graham	LRCS@sixnations.ca	We're particularly interested in advocating for soft infrastructure along the creek bed. As the specific restoration methods will be determined after the study's complete (why is that?), we're asking you to reach out to us then.	Thank-you for contacting the City of Toronto. This message is to acknowledge your ema This study is intended to understand the overall processes at work in Yellow Creek. Specific restoration methods will be determined at a future detailed design assessment stage when site specific physical conditions can be assessed for each project site. Slide 13 of the online presentation depicts the methods most used for Natural Channel Design. In general, the solutions involve bed and bank improvements and the introduction of stone to provide stability, given the high speed of stream flows. The photo of Mud Creek represents a likely method for future implementation. Mud Creek is similar to Yellow Creek and is located immediately to the east. The intent of Natural Channel Design is to provide watercourse stability to limit erosion risk to City infrastructure while also improving environmental conditions. Residents will be notified prior to any future construction plans. Thanks, il. All submissions will be documented, reviewed by the project team and included as part of the project record. For project related questions, kindly give us a few days to respond as we share your email with the project team.

Appendix M-6
Public Consultation Details and Correspondence

Appendix M-1 – Public Consultation Report
Appendix M-2 – Environmental Assessment Study Notices
Appendix M-3 – Public Information Centre Materials
Appendix M-4 – Agency and Utility Consultation
Appendix M-5 – First Nations Consultation
Appendix M-6 – Public Consultation Details and Correspondence

Community Groups Contacted:

- Avoca Residents Association
- Cycle Toronto
- Cycle Toronto Midtown
- Deer Park Junior and Senior Public School
- Deer Park Ratepayers Group
- Deerpark Residents Group
- Evergreen
- Midtown Ravine Working Group
- Midtown Yonge BIA
- Moore Park Residents' Association
- North Rosedale Residents' Association
- Ontario Environment Network (OEN)
- Pollution Probe
- Rosedale Main Street
- Sierra Club - Ontario Chapter
- South Rosedale Residents' Association.
- Summerhill Residents Association
- Toronto Environmental Alliance
- Toronto Green Community
- Toronto Park People
- Ward 10+11 Bikes

From:	Yellow Creek
Bcc:	jstephenson@bengaloil.com; Nathan Wener; Samara Lijiam; Councillor Saxe; tamara@cycleto.ca; john.taranu@gmail.com; michaelblack@sympatico.ca; shelly.maki@tdsb.on.ca; info@deerparkresidents.ca; info@deerparkresidents.ca; rplitt@evergreen.ca; info@midtownyongebia.com; president@moorepark.org; carolyn.bennett@parl.gc.ca; Chrystia.Freeland@parl.gc.ca; JAndrew-QP@ndp.on.ca; JBell-QP@ndp.on.ca; info1@northrosedale.ca; oen@oen.ca; rcarlson@pollutionprobe.org; info@rosedalemainstreet.ca; ontariochapter@sierraclub.ca; southrosedaleresidents@gmail.com; summerhillresidentsassociation@gmail.com; emmay@torontoenvironment.org; info@torontogreen.ca; dharvey@parkpeople.ca; info@parkpeople.ca; chiddicks@gmail.com; jbossons@gmail.com
Subject:	Community stakeholder meeting: Yellow Creek Restoration and Water Infrastructure Protection
Date:	November 15, 2023 11:30:00 AM
Attachments:	image001.png

Dear interested and affected parties,

The City of Toronto has initiated a study to identify sewer and watermain infrastructure within Yellow Creek that are at risk of erosion from high flows due to storms and snow melt.

This study looks at how the City's storm sewer and watermain infrastructure can be protected within the creek using recommended solutions to help correct existing impacts and reduce or prevent future impact. This will ensure the City's infrastructure continues to operate and service residents and businesses. The solutions will be part of a Geomorphic Systems Master Plan (GSMP) for the creek that is implemented over a multi-year period.

We are inviting groups, organisations and institutions with a direct interest in Yellow Creek to a **virtual meeting** to learn more about the study recommendations and to provide feedback.

Meeting Details:

- Date: Friday November 24, 2023
- Time: 10 – 12 p.m.
- **RSVP with your name and organization, by email to: yellowcreek@toronto.ca by 5pm Wednesday November 22, 2023**

To ensure all participants have an opportunity to provide feedback, we kindly ask that only one representative from each organization attends this meeting. The meeting link and dial-in number will be provided by 9:00am on the morning of the meeting.

For more information visit the project web page: Toronto.ca/YellowCreek

Very Best,

Aadila Valiallah (she/her)
Senior Coordinator, Public Consultation Unit
Policy, Planning, Finance & Administration
City of Toronto
416-338-2985

TORONTO

Public Meeting - Yellow Creek GSMP

Date: Monday, November 27, 2023
Meeting Type: Virtual
Start time: 6:00 p.m. End Time: 8:00 p.m.
Total Participants: 51

Project Overview:

The City of Toronto has initiated a study to identify sewer and watermain infrastructure within Yellow Creek that is at risk of erosion from high flows due to storms and snow melt.

This study looks at how the City's storm sewer and watermain infrastructure can be protected within the creek using recommended solutions to help correct existing impacts and reduce or prevent future impact. This will ensure the City's infrastructure continues to operate and service residents and businesses. The solutions will be part of a Geomorphic Systems Master Plan (GSMP) for the creek that is implemented over a multi-year period.

Meeting Objectives:

The public is invited to learn more about the study, ask questions and provide feedback on potential impacts of the recommended solutions.

Meeting Overview:

The meeting was facilitated by Aadila Valiallah, Senior Coordinator of the Public Consultation Unit. Daniel McCreery, Senior Engineer, Engineering & Construction Services presented an overview of the study.

Questions & Comments

The following questions and answers were provided during the meeting. All questions have been categorized by topic.

Topic	Questions & Comments	Project Team Response
Study area concerns	Yellow Creek is losing 1 ft of soil each year.	
	The works at Yellow Creek are prioritized as medium term (5-10 years), However, there has been quite a heavy flow of water/ storm in Yellow Creek which makes erosion worse. If this continues, and work is not done sooner, it may	Conditions along creeks are constantly monitored as part of an adaptive management program. The current study is a preliminary step for the recommendations and implementation of projects to follow.

Topic	Questions & Comments	Project Team Response
	turn out to be more expensive to repair at a later time (5-10 years later).	Impacts from urbanization and climate change (rainstorms and snow melt) are considered as part of the study. Erosion is a natural process as streams work to move water and sediment. However, excessive erosion can occur in some cases due to changes in inputs and conditions. An element of the study is to observe where the meander of the stream "wants" to flow so that we can understand the system, determine what needs to be done and prioritise work.
Watercourse concerns (city-wide)	Why is the City not treating the ravines issue as a storm sewerage issue? Every time that there is a storm, erosion worsens. There is a major erosion issue near Inglewood Drive.	We have looked at all the erosion sites. They are all documented and will be recorded as part of the environmental study report. Information is circulated with internal and external agencies including the Toronto Region and Conservation Authority (TRCA) to determine the best way to address the issues.
Backlog in water projects	What is the backlog of water projects with Toronto Water? Conditions getting worse each year. Urgent plans are needed. What are the additional funds required to deal with issues in the ravines? We've got to come up with a plan that deals with the City-wide backlogs to make ravines safe, which also include the land in the ravine area. Councillors determine the budget allocated to Toronto Water. We need to let them know that the problem is pressing.	The evolution for the responsibility for watercourse management has had many changes. In terms of backlog, they are beyond the current study scope. Findings from other GSMPs will be considered holistically / collectively to determine the necessary works and prioritization city-wide.

Topic	Questions & Comments	Project Team Response
City-wide coordination	Who is responsible for ensuring that all the elements and agencies involved and impacted are taking a coordinated approach as opposed to working in "silos"? How will water projects be coordinated with trail projects? What are the timelines for integrated planning?	In 2014, council mandated the 'Ravine Capital Coordination Committee', which is responsible for coordinating the Ravine Strategy with Parks Forestry and Recreation (PF&R), Toronto Water (TW),Transportation Services (TS), the TRCA etc. – Any divisions and units that conduct work at or near ravines are included in the committee for addressing issues and coordinating works necessary to address watercourse/ ravine-related projects
Process and timeframes	Approximately how much time is needed for a medium or low priority project to be dealt with?	Only project 1A is prioritized as medium term, which is anticipated to be 5-10 years away from implementation. Low priority projects could be anytime between 10-20 years.
Project details	What will be done about the collapsing gabion baskets coming out of the culvert near Mount Pleasant Cemetery? What is the time frame for that work?	The TRCA is working on that area as a Municipal Class EA, the City does not have a timeline on this project, but TRCA provides regular updated on their website.
Project scope – slopes	The ravine slopes are fairly steep along Yellow Creek. The study seems to be focused on the risk of the stream bed – what about the risk of property damage of general slope slippages (I think there have been 4 over the last 10 years). How does that general risk get evaluated?	The focus of the study is on watercourse erosion impacting Toronto Water infrastructure in the creek. Findings and recommendations regarding erosion will be shared with partner agencies for future planning. The TRCA has an erosion risk management program to address erosion on private property.
	There was a landslide just north of St Clair a couple of years ago. Is that site part of your mandate for the current project scope?	It was erosion on private property higher up the slope. It is part of the Rose Park Crescent Slope Stabilization Project, which is part of TRCA's erosion risk management program.

Topic	Questions & Comments	Project Team Response
Project scope - stairs	Is there a connection between the prioritization of the water studies and the need for attention to deterioration of the ravine entrance staircases that is due to erosion?	The study would provide the foundational piece to internal partners (PF&R), responsible for infrastructure repairs for future planning.
Project Scope - trails	I know that trail work is out of scope, but it seems to me that there is an enormous opportunity to leverage the capital equipment deployed for the stream bed (to fix the trail). In particular, the Heath Street stairs and the trail south of the St Clair bridge.	The study is part of the planning process to develop a master plan. The projects that are identified will be submitted for implementation. We cannot always address all projects identified in the short term due to City-wide priorities. The study recommendations will be shared with other agencies for future planning.

Project Team and Panelists

Engineering & Construction Services
Hazel Breton, Manager
Daniel McCreery, Senior Engineer, Project Manager

Toronto Water
Bill Snodgrass, Senior Engineer
Robert Chan, Senior Engineer

Public Consultation Unit
Aadila Valiallah, Senior Coordinator
Carol Lee, Coordinator
Daniela Castellanos Forero, Coordinator

Parks, Forestry & Recreation
Raymond Vendrig, Manager, Forest & Natural Area Management

Councillors
Councillor Dianne Saxe
Samara Lijiam, Councillor Matlow's office

GHD
Jeff Doucette, Project Manager

Yellow Creek GSMP
Interest Groups

Date: Friday, November 24, 2023
Meeting Type: Virtual
Start time: 10:00 a.m. End Time: 12:00 p.m.
Total Participants: 23

Project Overview:

The City of Toronto has initiated a study to identify sewer and watermain infrastructure within Yellow Creek that is at risk of erosion from high flows due to storms and snow melt.

This study looks at how the City's storm sewer and watermain infrastructure can be protected within the creek using recommended solutions to help correct existing impacts and reduce or prevent future impact. This will ensure the City's infrastructure continues to operate and service residents and businesses. The solutions will be part of a Geomorphic Systems Master Plan (GSMP) for the creek that is implemented over a multi-year period.

Meeting Objectives:

Stakeholder groups and organisations were invited to learn more about the study, ask questions and provide feedback on potential impacts of the recommended solutions.

Meeting Overview:

The meeting was facilitated by Aadila Valiallah, Senior Coordinator of the Public Consultation Unit. Daniel McCreery, Senior Engineer, Engineering & Construction Services presented an overview of the study.

Questions & Comments

The following questions and answers were provided during the meeting. All questions have been categorized by topic.

Theme	Questions & Comments	Project Team Response
Coordination of city-departments	Which departments at the City are involved in the larger *rivers and streams working group*? Will public comments raised in this study be brought to the working group?	The Ravine Strategy has a capital coordinating committee, that involves all city divisions and outside agencies that work in or have overlapping interest in ravines, including Toronto Water, Transportation

Theme	Questions & Comments	Project Team Response
		Services, Parks Forestry and Recreation, and the Toronto Region and Conservation Authority We meet regularly to discuss upcoming projects within a 5-10 year timeframe. We review projects and coordinate the work. At-risk infrastructure is fundamental and needs to be addresses prior to the next-level of work and improvements. The Study Report will be circulated to the partner agencies. An inter-divisional working group led by PF&R will review the report recommendations and work together to address issues raised in the study.
	It was gratifying to hear Raymond Vendrig speak about a coordinated view of issues across 'silos'. However, it still remains mind-boggling that even this group cannot see the critical need to maintain the last bridge which seems to be just north of the 2nd remediation project in Summerhill Gardens. This is a vital connection to the waterfront via the Brickworks paths. It connects this area to the Don Valley trails, the waterfront, Bayview extension bike path, trails to Sunnybrook etc. How that coordinated group cannot see fit to take advantage of all the resources which will be in this section AGAIN, causes me to question how this overarching group functions. Raymond, I believe just said this is out of scope; yet he did mention a cycling infrastructure group. This is THE way to get a bicycle from here to all the downstream paths.	

Theme	Questions & Comments	Project Team Response
Prioritisation Erosion on private property	1. Is Project #1A being given highest priority? Is the area backing from **Inglewood Drive** also included in Project #1A? 2. The study focusses heavily on TW infrastructure, but there is also a profound erosion issue around this area, which poses danger to the nearby private residences near **Inglewood Drive**. Will erosion issues be addressed in the study? 3. Are there channels for private property owners to bring erosion issues up to the Government and/or agencies?	1. Project #1A is the highest priority and is approximately 85m going downstream from St Clair. The stretch near Inglewood Drive is included in Project #1B. 2. The focus is on protecting water infrastructure, but the report does document all erosion sites in the watercourse. The information and recommendations will be shared with partner agencies for future planning. 3. Property owners can reach out to TRCA Erosion Risk Management group to monitor risks.
Prioritisation	John Bossons – What does it take to bump the priority of Yellow Creek up?	The current GSMP studies are the mechanism for City-wide assessment of rivers and streams. There's a backlog of infrastructure projects from storms dating back to the early 2000s. It could take 5-10 years to complete the study work, and that is when the City will get a better picture of project prioritisation across the City.
Prioritisation, timelines and coordination	Tom Connell – 1. What needs to be done in order to advance through the 5–10-year timeframe, and get a higher priority for actually getting the work done? 2. For TRCA works just below Summerhill Gardens, what is the coordination between the TRCA and Toronto Water on that?	1. We are currently in the data gathering phase with the current GSMPsThe actual timeframe and work schedules will depend on the needs and priorities of all works required in the City. Toronto Water currently has 100-200 outfalls across the City that look like the outfalls at Yellow Creek or are in much worse condition. All recommended projects will then be prioritized based on all works required across the City. 2. The current work that TRCA is carrying out at Summerhill Gardens is also conducted by the same consultant, GHD. If a bridge gets rebuilt by the TRCA under their project, additional works in the area will

Theme	Questions & Comments	Project Team Response
		take place around the project in the upstream and downstream area. Work will not be repeated at the same location.
Private funding	I agree that the current work is fundamental, but the erosion issues are also essential to the study area. We do believe that there is an opportunity to raise private money to supplement the Government in carrying out needed work. A more holistic plan is required to coordinate with different Government divisions. Is there a ballpark figure as to the costs for the works?	High-level costs for the recommended solutions will be included in the study report for review.
Sharing meeting notes		A meeting summary will be provided in the public consultation report, and the meeting notes will be circulated to meeting participants. Email responses will be provided for email comments, Comment tracking will be summarised in the public consultation report, details will be included as an appendix in the final study report.
Slope erosion	1. At Inglewood Drive, erosions has spread 6ft since 2016, if the issue is not addressed until 10 years from now, the erosion may spread up to 20ft wide – highlighting the importance of quick response to issues. 2. Will the EA report address this issue?	Feedback and recommendations on erosion will be included in the study report and shared with partner agencies as part of the Ravine Strategy. Erosion on private property is handled by the Toronto Region and Conservation Authority who are part of the Ravine Strategy working group.
Study Report	1. Is the study report being made public? We have not seen it yet. 2. Will there be another public consultation process after the report has been published? It might be more appropriate to present the report with the stakeholder groups and provide feedback once the report is published.	1. The Study report will be available on the project website. Public consultation forms part of the study. A notice will be circulated when the report is available. 2. There will not be any further public consultation on the study, once the report is published.

Theme	Questions & Comments	Project Team Response
Timeframes – long term	John Bossons – Medium-term projects are 5-10 years out. I would like to learn about the long-term timeframe?	A rough estimate for the long-term timeframe is about 10-20 years out. The current block wall structure along Yellow Creek was put in place a long time ago (since the 1900s, ref slide 34). the structure holds up the banks along the meander of the creek and is holding up better than many newer wired basket walls at other creeks around the City. The current condition at YC is performing well and will be considered for upgrades/ improvements on a longer-term timeframe.
Timeframes, prioritization and project scope	1. What is defined as medium term? 2. What is the rationale behind the prioritizing order of projects? 3. It is quite disappointing to know that the current study will not be able to swiftly address the current issues along Yellow Creek	1. Medium term implementation is 5-10 years. We are still in the study phase, gathering information for several of the GSMPs City-wide 2. Recommended projects were evaluated and prioritized based on study area and risk to Toronto Water infrastructure. Timelines are at a high-level to allow for factoring in future City-wide prioritisation. 3. Prioritization is important as we work City-wide. Once studies are complete the City will determine timelines.
Trail repairs	Can the prioritized Project #1A include trail repairs above the site? There is a footpath immediately above Project #1A, and the slope at that site is heavily eroded. Would the trails/ footpaths be improved above that site?	The outfall site and slope will be addressed in Project #1A. A minor realignment of the watercourse will also take place so that the watercourse will be further away from theslope. Toronto Water works will be prioritized. Trail improvement and stabilization work will be coordinated through the Ravine Strategy working group once the water infrastructure works are complete.

Project Team and Panelists

Participants

Chris Fraser
James Stephenson, Avoca Residents Association
Jim Packer, Summerhill Residents Association
Joan York, Midtown Ravines Group, Deer Park
John Bossons, Midtown Ravines Group
Mary Renaud, Deer Park Residents Group
Paul Cravit, Avoca Residents
Rob Spindler, Moore Park Residents Association
Tim Ross, Midtown Ravine's Group
Tom Connell, North Rosedale

Engineering & Construction Services
Hazel Breton, Manager
Daniel McCreery, Senior Engineer, Project Manager
Chunying Zhao, Project Manager

Toronto Water
Bill Snodgrass, Senior Engineer
Robert Chan, Senior Engineer

Public Consultation Unit
Aadila Valiallah, Senior Coordinator
Carol Lee, Coordinator

Parks, Forestry & Recreation
Cheryl Post, Natural Environment Specialist
Raymond Vendrig, Manager, Forest & Natural Area Management

Councillors
Councillor Dianne Saxe
Benjamin, Councillor Dianne Saxe's office

GHD
Jeff Doucette, Project Manager

Yellow Creek GSMP
Interest Groups

TRCA
Ashour Rehana, Senior Manager
Courtney Munro, Project Manager

Date Received	Message	Response
2023-11-15	The intial part of your presentation is about sewers. And why sewers are very important they are not the only thing that is important when thinking about rivers and the natural habitat. Has there been any discussion about naturalizing more of Yellow Creek and Mudcreek? They are both stubby rivers that stop prematurely short of the trail entrances. 1. Creek's reemergence at Moore Ave is well short of what it could be 2. Creek's reemergence in the Park Driver Reservation Lands off of Mount Pleasant starts too late. It would be so much nicer if they extended as far as they can. It always feel like Toronto cares very little for its rivers.	The current study focuses on Toronto Water storm sewer and watermain infrastructure at risk of erosion in Yellow Creek within the aboveground length of Yellow Creek from south of Mount Pleasant Cemetery to the southern part of David A. Balfour Park near Mount Pleasant Road. The study does not contemplate areas of Yellow Creek outside this study area or neighbouring watercourses. The recommended solutions from the study aim to improve the condition of the watercourse by protecting storm sewer and watermain infrastructure at risk of erosion while also aiming to improve watercourse environmental conditions.
2023-12-22	(cont'd from 2023-11-15) I understand that. But the scope is too limited. Toronto can and should expand their scope to restoring as much natural habitat as is practically possible. A creek is not just a sewer.	Thank you for your follow up reply to the project team. Your comments have been included in the project file.
2023-11-17	Work is of greater urgency due to overall risks of impact from erosion in the creek, to the bridge, trail and street. Phone call notes: The resident has further identified that the project #1 location on the map seems misaligned with the Site 4 location by about 100m. The resident fixed the site 8 year ago with a bunch of "robust teenagers" making a buttress with 8X8 lumber, which has since been impacted by erosion. The locals keep an eye on the vulnerability of the structure and stream walls. There is a structure which is 70 years old which holds up a public path and steep wall and the street above. The structure has been failing for +/- 15 years. The cause is the immense power of the stream during a storm (which goes up 3-4 feet).	

2023-11-23	Earlier this week, I received a flyer from the City regarding the Yellow Creek Study. Although I cannot attend the virtual event, I hope that the following comments will be considered in City's plans. I have been living on Rosehill Avenue since 2017, and have spent many pleasant hours walking along Yellow Creek. Over the past few years, the ravine ecosystem has continued to deteriorate in several areas; - ground water from the western slopes along the paved walk continues to damage the landscape as a result of constant flooding - extensive erosion by the first bridge across the creek is simply barricaded, but clearly work has to be done to restore and support this stretch of the foot path and water - at some point there was a second bridge, the stone supports remain, but the bridge is gone. Can this be fixed? - I am concerned that invasive species (particularly fragmites) threaten the viability of native plants, although I was pleased to see planting a few years ago, on the ground adjacent to the missing bridge - access to the ravine via wooden steps is dicey, to say the least, and these should be reinforced or replaced in several areas, which have likely been identified - there are doubtless sections of the creek not easily visible to most visitors, but any efforts to stabilize potential erosion are welcome The river bed is certainly home to many species, and I have seen mallards by the creek a few years ago. It is a natural pathway for animals, and is an essential part of Toronto's storied ravine system. It is one of our greatest natural assets. Could you please add my name to the distribution list for any meeting minutes/links or for future consultation. This is an important project and I wish you and your colleagues all the best.	The City is in regular contact with TRCA regarding plans for Yellow Creek. Based on this contact, we note that TRCA's current design assignment for Yellow Creek below Summerhill Gardens is to address an urgent erosion risk in the near-term using previously used access routes. Conversely, the low priority recommended solution identified in the study, shown on slides 18 and 24 of the online presentation, is a much longer-term consideration that will be guided by monitoring to determine where and when intervention is needed. Given the differing priority levels, TRCA's work needs to advance ahead of the City's project. Further, the City's long-term project would look to improve the channel in its existing alignment and work in concert with the improvements constructed by TRCA.
2023-11-23	First, I want to thank you for inviting us at the Working Group meeting to enumerate the erosion issues that concern us in the Vale of Avoca (Yellow Creek ravine). I have a lot of respect for your competence and professional experience, and know you are well aware of the reasons why erosion in this ravine is such a critical issue. To TW: As you suggested, I have appended some brief notes on key erosion locations in Yellow Creek for use in tomorrow's meeting. It's only a partial list, indicative of the number of sites where erosion is critical. I've also added some comments on the stormwater water force. As you noted when we walked the ravine in June, the flow statistics resulting from the geomorphic study's instrumentation at the bridge — an astounding 4-6 meters per second during observed storm peaks, I believe you reported — just underline the force of the stormwater flow that occurs in what are now annual or twice-to-thrice annual storms. This will only get worse thanks to global warming. I do appreciate the priority Toronto Water appropriately gives to protecting water pipes and sanitary sewer infrastructure. But I also want to emphasize our view that Toronto Water has a responsibility to deal with the erosion issues caused by its use of the Yellow Creek as an open-air storm sewer. I look forward to further discussion of these issues on Friday and to your suggestions on how the necessary erosion control work in the ravine can be expedited. The reason we need the geomorphic study expanded is that so it can provide detailed guidance on what needs to be done, how it can be done, and what (at least in rough figures) it will likely cost.	From TW: Thank you for your email. It is most appreciated. As I mentioned on Tuesday, as a part of the EA process, we are in the public consultation phase. Hence, the request from the City is for you to , verbally if you wish, and in addition if possible in writing, use two opportunities to provide these concerns to the EA process : at the Stakeholder event and / or at the PIC. These concerns will become part of the written record of issues that came up and will be addressed / answered in the Environmental File Report. Where possible, an answer may be provided during the two meetings. The additional suggestion that I made in answer to your question on Tuesday was to ask about how the early EA study components support next steps of the inter divisional process for your identified issues. Further from TW: Early discussions with the Councillors and the Ravine Working Group, before the RFP was sent out always emphasized that the Yellow Creek GSMP EA was the first of several tasks needed for the Vale of Avoca. The Yellow Creek GSMP EA was foundational in that it would delineate how the creek would behave now and in the future, and that corrective works identified for Yellow Creek would focus on TW infrastructure. This has been communicated in subsequent updates on the study to the working group. The Vale of Avoca Staff Report of June 2023 (https://www.toronto.ca/legdocs/mmis/2023/ie/bgrd/backgroundfile-237424.pdf) prepared by PFR Staff with the support of other Departments (including Toronto Water and ECS) will be followed, in terms of implementation. The section Next Steps for the Vale of Avoca/Yellow Creek Staff Report says: The current Yellow Creek GSMP EA and future trail plan, as outlined in this report, will allow staff to identify a long-range plan for the ravine parkland and watercourse for future implementation. With support from the University-Rosedale Councillor's office, City staff will continue to engage and collaborate with the working group on next steps and key investments. PFR, Toronto Water and the TRCA will prioritize potential projects within their respective city-wide programs and will continue to identify opportunities and submit applications for intergovernmental funding to protect and enhance Toronto's ravines, including the Vale of Avoca. The above Update for the Working Group follows the process identified in the Staff report. The City will not be changing the scope of the Yellow Creek GSMP EA. The concerns regarding broader erosion issues in the ravine will be addressed as part of inter-divisional coordination identified in the Vale of Avoca / Yellow Creek Staff Report after the Yellow Creek GSMP EA is completed. At this point in the EA process, we are not addressing the concern about future inter divisional coordination, nor expediting erosion work. As the Staff Report indicates, these activities are part of each divisions/ Department's future prioritization process and Annual Capital budget activities.

2023-11-24	I would like to see the study and work done increased to include the trails and entrances to the ravine; some of the trails are in poor condition; the entrance to the ravine on the east side from Heath Street has been blocked for several years, earlier this fall the stairs to the ravine from Mt. Pleasant south of Inglewood Drive were obstructed by at least 3 fallen trees, the trail on the west side of the creek north of the railroad tracks is always muddy and at times under water. Unfortunately I was unable to add these comments to the survey. Please send me feedback, as I am out of the country and unable to attend the meeting on November 27th.	Thank-you for your interest in the Yellow Creek Study. All submissions have been documented, reviewed by the project team and included in the project record. I have added your email address to the project email list for updates.
2023-11-24	We much appreciate the detailed discussion and look forward to more information over the next few months. We will also follow up on getting the priority for the mill dam problem area increased. Very grateful to Jeff for confirming the current erosion rate! We look forward to more on all this at the 2024 Q1 VofA Working Group meeting. And in the meantime would appreciate the slide deck.	
2023-12-20	I live a couple of blocks away from the ravine. I don't think the main trail from Summerhill Gardens has been named ? Is there a procedure for naming a trail in the Yellow Creek Ravine. if so who would field a request like this. Please add me to the mailing list.	Regarding your questions about trail naming, the subject Yellow Creek study is not focused on trails, trail access, trees, invasive species or other park features. Please contact 311 Toronto at 311@toronto.ca regarding your trail naming questions. As well, your name will be added to the distribution list for future project updates for the Yellow Creek Restoration and Water Infrastructure Protection Study Geomorphic Systems Master Plan.
2023-12-22	Thank you for getting in touch and replying to my earlier email. I can see from your credentials that invasive species is not your area of expertise! I appreciate you passing on my comments to the Parks department. As a side note, a few weeks ago, as I was walking around the perimeter of the adjoining reservoir, I could see the creek at the bottom....and the water was yellow! Whatever next steps are taken, Toronto's ravines are very special and historic places. Thank you for taking good care of them on our behalf. Best wishes for a happy holiday, and a great year ahead for our environment.	

City of Toronto Parks Forestry & Recreation Comments

Date	Parks, Forestry & Recreation (PF&R) Comments	Response
December 5, 2024	• PF&R staff have reviewed the priority ranking of the 10 Toronto Water (TW) Infrastructure sites and after meeting with TW staff, understand the proposed timelines for work related to TW infrastructure in the Vale of Avoca. We will use that information to help inform future PF&R capital work. • After reviewing the study and meeting with TW and Engineering & Construction Services (ECS) staff, potential areas have been identified that PF&R could consider as part of a future trail building exercise that is scheduled to begin in 2025 as per I&E Committee Meeting Item: 2023-IE5.2 • The Geomorphic Systems Master Plan (GSMP) has helped identify areas of concern with respect to erosion in relation to the success/failure of bank stabilization work carried out in years past. • PF&R staff will use the GSMP and consult with TW, ECS, Toronto Region Conservation Authority and other partners in the future to identify where construction access points and construction routes might be planned, to help with the planning of trails, bridges and access points. • One recommendation for future GSMP studies: it would be beneficial to coordinate with PF&R on future GSMP studies to take into account trails and other Park assets. This may require budget coordination between Divisions and may extend the timeline for studies, but it could lead to efficiencies later on and ultimately better outcomes for the ravines. This coordination is well underway on the RFPs currently under development for EAs for Upper Black Creek and East Don (anticipated to be released later this year/early next year). We appreciate the efforts of ECS and TW to implement these beneficial changes to the process.	Toronto Water – December 19, 2024 The YCGSMP project team is pleased the master plan is able to contribute to Parks, Forestry & Recreation initiatives. Toronto Water and Engineering and Construction Services can share access route information during detailed design of projects to support the planning of Parks, Forestry & Recreation projects. The primary aim of Toronto Water GSMP's are to protect Toronto Water assets. However, collaboration on future GSMPs where it is beneficial to both City divisions can be defined in future discussions external to the YCGSMP EA process.

APPENDIX B: TRCA AREAS OF INTEREST

TRCA PROGRAM AND POLICY AREAS *Note: Additional program and policy information may be available at www.trca.ca, or by request.*	
Natural System Programs and Policies	
Systems Approach	TRCA follows a systems approach in which the natural features and water resources are considered in relation to each other and the broader landscape in which they occur. The systems approach recognizes the role that linkages and connectivity within the natural system has in supporting ecological and hydrologic processes and functions that are vital to maintaining a healthy and robust natural system that is resilient against the impacts of urbanization and climate change. TRCA may require an assessment of the existing systems, together with an evaluation as to how the proposal may impact the systems.
Aquatic Systems, Species and Habitat	The aquatic system includes watercourses, wetlands, and flora and fauna species. Aquatic species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity. TRCA has prepared watershed plans or strategies, as well as fisheries management plans for some watersheds. The proposal must prevent negative impacts to the aquatic system, and as such, TRCA may require an assessment of the existing aquatic system, an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or strategy, and/or an evaluation as to how the proposal will meet the objectives of the fisheries management plan.
Terrestrial System, Species and Habitat	The terrestrial system includes landscape features, vegetation communities, and flora and fauna species. Terrestrial species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity. TRCA has identified the need to improve both the quality and quantity of terrestrial habitat. TRCA's **Terrestrial Natural Heritage System Strategy** sets measurable targets for attaining a healthier natural system by creating an expanded and targeted land base. It includes strategic directions for stewardship and securement of the land base, a land use policy framework to help achieve the target system, and other implementation mechanisms. TRCA may require an assessment of the existing terrestrial species and habitat, together with an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or terrestrial natural heritage strategy, as well as prevent negative impacts to the terrestrial system.
Environmentally Significant Areas	Environmentally Significant Areas have been identified by TRCA based on a set of ecological criteria regarding the function, significance and rarity of the features or species found in the area. These areas should be identified in the assessment of the terrestrial species and habitat, as noted above.
Groundwater Systems	
Aquifers and Hydrogeological Features and Functions	Groundwater systems include aquifers and their functional connections to surface water. The extraction and discharge of groundwater has the potential to negatively impact surrounding natural features and their functions. Even small amounts of groundwater extraction may reduce contributions to groundwater dependent features such as wetlands, springs, or fish spawning habitat. In addition, the discharge of groundwater must be controlled to avoid impacts to

	watercourses and fish habitat from temperature, erosion and sedimentation, as well other water quantity and quality issues. TRCA may require geotechnical or hydrogeological investigations to confirm dewatering and discharge requirements, and to identify appropriate mitigation measures with respect to potential impacts to natural features and functions.
Surface Water Systems	
Watercourses	Typically, watercourses are associated with aquatic species, and direct or indirect habitat. Any alteration or interference to a watercourse (e.g., straightening, diverting, realigning, altering baseflow) has the potential to impact fish communities, but may also affect the Regulatory Flood Plain, erosion or other natural channel processes. TRCA may require an environmental study or site confirmation of watercourse locations.
Meander Belt	Channel migration has a significant impact on infrastructure, structures and property located near river systems. Determining channel stability is important to ensure that damage from erosion, down-cutting or other natural channel processes is avoided. TRCA may require a meander belt delineation study or fluvial geomorphology analysis to confirm that any development does not conflict with natural channel processes.
Regulatory Flood Plain	The Regulatory Flood Plain is the approved standard used in a particular watershed to define the limit of the flood plain for regulatory purposes. Within TRCA's jurisdiction, the Regulatory Flood Plain is based on the greater of the regional storm, Hurricane Hazel, and the 100-year flood. TRCA's framework for Flood Plain Management is the LCP. TRCA may require a flood study or hydraulic update to confirm that there will be no impacts to the storage or conveyance of flood waters.
Wetlands	Wetlands are sensitive natural habitats that play an important role in numerous physical, chemical and biological processes, including storm water control, natural habitat and water quality improvement. Most wetlands are designated by the Ministry of Natural Resources and Forestry as Provincially Significant or Locally Significant. Other wetlands have also been identified on a site specific basis by TRCA. All wetlands are regulated under Ontario Regulation 166/06. TRCA may require an environmental study or site confirmation of wetland locations.
Storm Water Management, including Green Infrastructure	Stormwater management is integral to the health of streams, rivers, lakes, fisheries and terrestrial habitats, and source water protection is integral for managing the quality and quantity of drinking water at its source. TRCA requires all development, infrastructure and site alteration meet the criteria in the TRCA 2012 Stormwater Management Criteria document for water quantity, water quality, erosion control, discharge water temperature, and water balance for groundwater recharge and natural features. Green Infrastructure techniques, including Low Impact Development (LID) measures should be used to address issues related to stormwater management, as well as maximize ecosystem services and mitigate the impacts of urbanization

	and climate change. For further information, please refer to the TRCA Introduction to Green Infrastructure, the Sustainable Technologies Evaluation Program (STEP) -Urban Runoff Green Infrastructure and the STEP 2010 Low Impact Development Stormwater Management Planning and Design Guide.
Flood or Erosion Control Structures	There is an existing flood or erosion control structure (e.g., dam, weir, berm, channel) located in the project vicinity that must be considered as the project proceeds. A meeting with TRCA should be arranged as early as possible.
Valley Slopes	
Crest of Slope	Valley and stream corridors are dynamic systems that provide important natural functions and linkages for the physical, chemical and biological processes of wildlife, watercourses, and other natural features. The crest of slope identifies the physical limit of these corridors; however, due to ecological sensitivities, development restrictions typically extend beyond the actual crest of slope. TRCA may require the determination of the long term stable crest of slope (or toe of slope) through a staking with TRCA staff, as well as a geotechnical assessment.
Sustainability Programs and Policies	
Climate Change	In October 2017, MECP released a guideline under the Ontario environmental assessment legislation directing that all projects going through the EA process, including IEAs, Class EAs, and those governed by EA regulations, must consider impacts to and opportunities for climate change mitigation and adaptation, and consider the vulnerability of projects to climate change. It was further recommended that applicable policies in the 2014 **Provincial Policy Statement** be addressed, including but not limited to encouraging green infrastructure and strengthening stormwater management requirements; requiring consideration of energy conservation and efficiency, reduced greenhouse gas emissions and climate change adaptation (e.g. tree cover); and consideration of the potential impacts of climate change that may increase the risk associated with natural hazards (e.g. flooding due to severe weather). The climate change section of the EA should include recommendations for Green Infrastructure, Sustainable Energy, Sustainable Buildings and Sustainable Construction Practices, as further described below. It is recommended that a completed Sustainable Technologies for Green Building, Green Infrastructure, and Sustainable Energy Design in Evaluation Matrix be included in the EA document.
Sustainable Infrastructure & Buildings	The sustainability of infrastructure and buildings determined through a variety of factors through planning, design, construction, operation, maintenance and decommissioning. Sustainability factors include the efficiency environmental impact of project inputs through all phases, including energy, water and natural resources/materials. The type and amount of energy used in construction and operation is one of the most significant factors affecting climate change, the ecological footprint of our communities, and ultimately our ability to create sustainable communities. As supported by the LCP, TRCA advocates that proponents consider the use of appropriate sustainable energy networking (e.g., community energy project),

	technologies (e.g., solar lights, etc.) and practices (e.g., selection of materials, transportation of materials, energy efficiency, passive solar energy) in their projects. Various sustainability best management practices include sustainable procurement, reusing resources, using recyclable/recycled resources, protecting natural systems, eliminating toxics, applying life-cycle costing and ensuring a high quality of construction. If designed appropriately, sustainable infrastructure or buildings generally cost less to operate, are more resilient and adaptable as comparted to standard designs and are an aesthetic and environmental benefit to the community. TRCA recommends that a commitment to sustainable infrastructure or buildings through all project phases be made in the EA document. Please consider using a rating system such as Envision or LEED to guide the EA and detailed design.
Sustainable Communities	The TRCA Living City vision is based on a foundation that includes Sustainable Communities. Planning for community sustainability requires the identification of the complex and inter-related social, economic and ecological systems involved; TRCA supports a systems approach to developing integrative and adaptive solutions to improve community sustainability. Key socio-economic systems include: transportation facilities (including trails, sidewalks & multi-use pathways), community greenspaces (including parks), urban forests, cultural heritage resources, and the local economy. For transportation projects, a context sensitive design/solutions framework are encouraged.
Archaeological and Heritage Resources	TRCA watershed strategies include recommendations for the management of archaeological and heritage resources in accordance with Ministry of Culture and Municipal standards. The project should aim to preserve, protect and celebrate archaeological and heritage resources where possible.
PROVINCIAL PROGRAM AREAS	
Credit Valley - Toronto & Region - Central Lake Ontario (CTC) Source Protection Plan	The Clean Water Act, 2006 ensures communities protect their drinking water supplies through prevention by developing collaborative, watershed-based source protection plans that are locally driven and based on science. Please be advised that the subject property appears to fall within the Highly Vulnerable Aquifers (HVA), vulnerable areas under the Credit Valley - Toronto and Region - Central Lake Ontario Source Protection Plan (CTC SPP). Please confirm that the preferred alternative design for this project conforms with the CTC SPP. For additional support, please consult with the Risk Management Official (or Source Protection Lead if City of Toronto) as copied on this letter. Please note that in accordance with Ontario Regulation 166/06, permits from TRCA may be required for mitigation solutions that are designed to ensure conformity with the CTC SPP.
PROVINCIAL PROGRAM AREAS	
Please contact the Ministry of Natural Resources and Forestry to confirm if there are program interests related to this project for: • **Areas of Natural and Scientific Interest** (ANSI) • **Provincially Significant Wetlands** (PSW) • **Provincially Endangered Species under the Species at Risk Act** (SARA)	

Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.

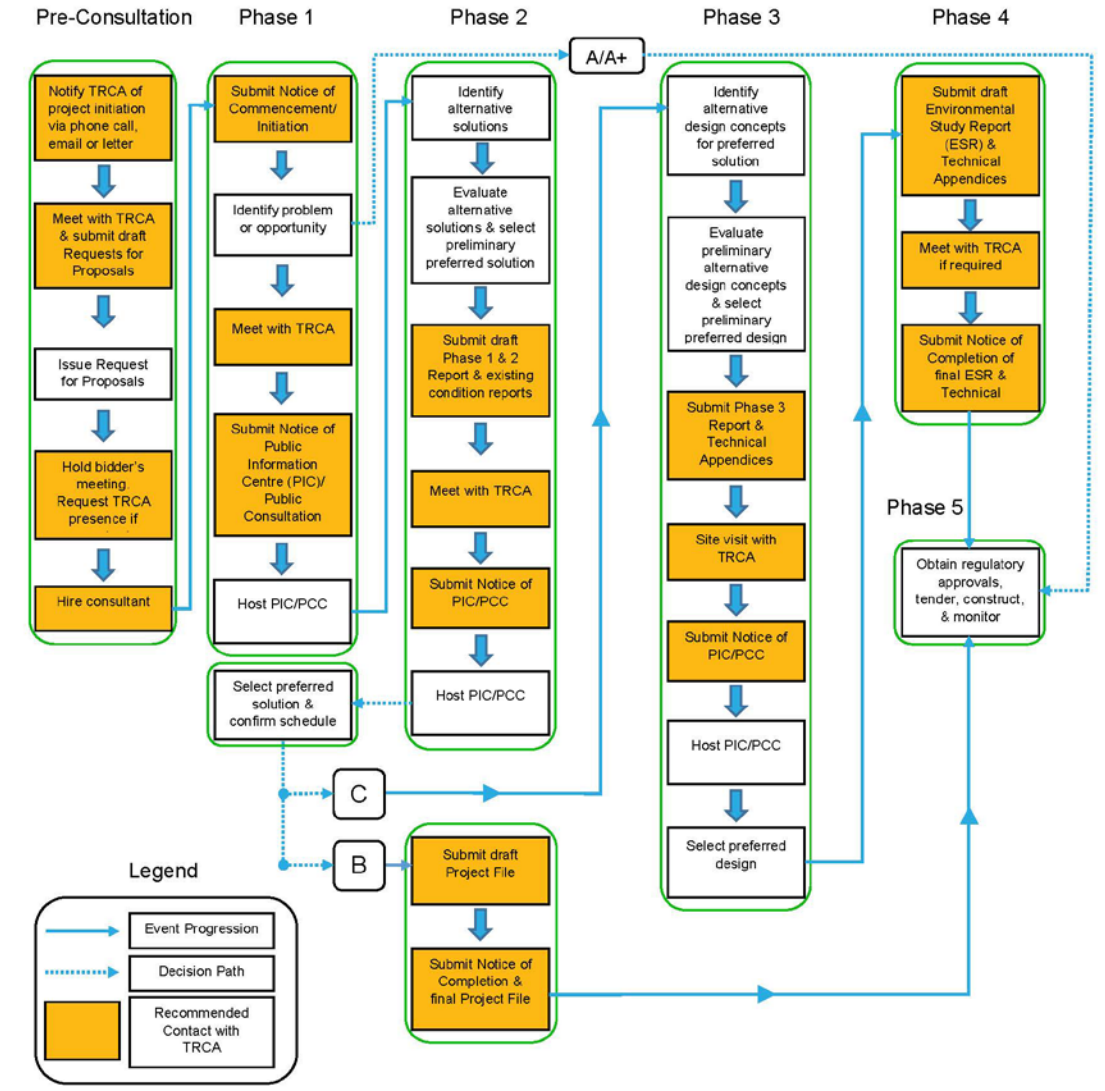
FEDERAL PROGRAM AREAS

Please contact the relevant federal agency to confirm if there are issues related to:

- Asian Long-horned Beetle Regulated Area
- Federally Endangered Species under the **Endangered Species Act** (ESA)
- The **Fisheries Act**

Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.

Appendix C: Recommended TRCA Contact Points in the Municipal Class EA Process



Appendix M-7
Impacted Properties

Appendix M-1 – Public Consultation Report
Appendix M-2 – Environmental Assessment Study Notices
Appendix M-3 – Public Information Centre Materials
Appendix M-4 – Agency and Utility Consultation
Appendix M-5 – First Nations Consultation
Appendix M-6 – Public Consultation Details and Correspondence
Appendix M-7 – Impacted Properties

Mika Raisanen, P.Eng.
Director, Design & Construction,
Linear Underground Infrastructure

Engineering & Construction Services

Metro Hall
55 John Street
20th Floor
Toronto, Ontario M5V 3C6

Hazel Breton, P.Eng.
Manager, Stormwater
Management Infrastructure

October 31, 2023

To: [redacted]

Subject: Yellow Creek Restoration and Water Infrastructure Protection
Property Impacts associated with your property at [redacted]

The City of Toronto is carrying out a study to identify and protect sewer and watermain infrastructure within Yellow Creek that is at risk of damage due to erosion impacts from high flows due to storms and snow melt. This will ensure the City's infrastructure continues to operate and service residents and businesses. The recommended solutions from the study will be part of a Geomorphic Systems Master Plan (GSMP) for the creek that is implemented over a multi-year period.

The City has completed a risk assessment of storm sewer and watermain infrastructure sites along Yellow Creek and an evaluation of possible solutions for protecting City infrastructure. The City is recommending 4 projects, consisting of creek bed and bank improvements, to address 9 water infrastructure sites.

You are receiving this letter because one of the recommended projects intersects with, or is adjacent to, your property along Yellow Creek. Future implementation may require use of a temporary or permanent easement on your property. An easement is a "right of use" of your property for a specific purpose. Additionally, depending on the future design of the recommended solution, tree removal and replanting may be necessary.

Please see the reverse map indicating the area of the recommended project. Property owners affected by the future work will be contacted during a future design phase, after the study is complete. Confirmation of easement requirements will be communicated at that time.

We want to ensure that any comments or questions you have are heard.

If you have questions at this time, or want to discuss the study, please contact the project team by Friday December 8, 2023. We can arrange a virtual meeting, speak via phone, or communicate via email.

Staff contact for the study:

Aadila Valiallah
Senior Public Consultation Coordinator
416-338-2985
aadila.valiallah@toronto.ca

The City is consulting the public on the study recommendations and impacts. Public consultation will take place Monday November 27, 2023, via a Virtual Public Meeting. Additional information about the study and the Virtual Public Meeting can be found on the project web page: toronto.ca/YellowCreek. A Public Notice will be mailed to all residences in the study area.

Next Steps
The study is following the Municipal Class Environmental Assessment study process for Master Plans, which is an approved planning process under the Ontario Environmental Assessment Act and includes opportunities for public input.

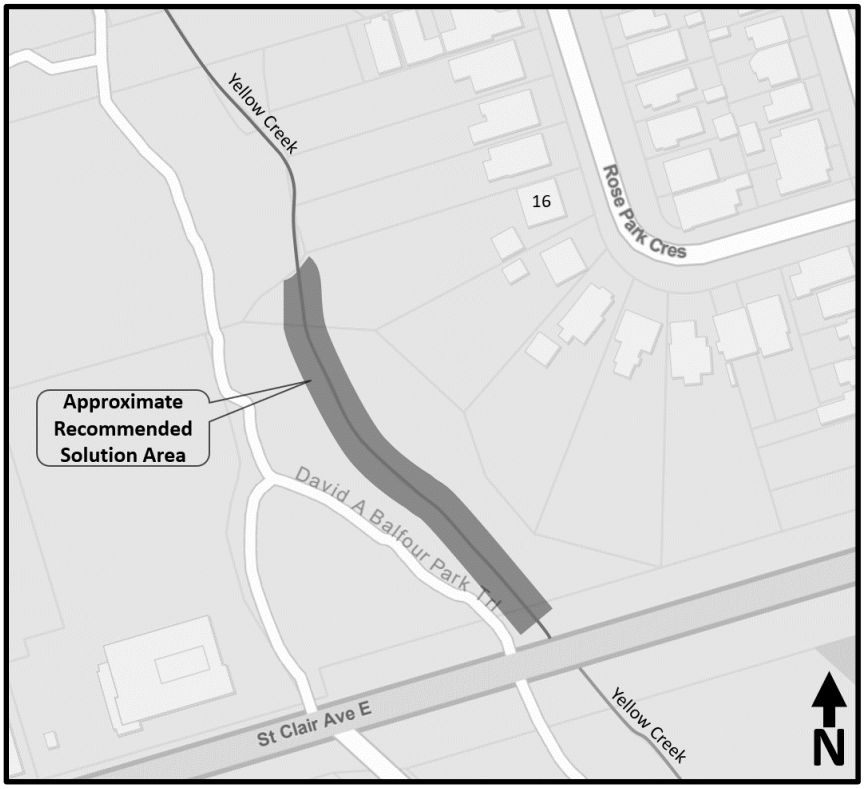
Following public consultation, the City will finalize the study recommendations and publish a Master Plan report for a 30-day public review period. During the 30-day review period, a request can be made to the provincial Minister of the Environment, Conservation and Parks for an order requiring a higher level of study or that conditions be imposed, only on the grounds that the requested order may prevent, mitigate, or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights.

Once the Master Plan is approved, the recommended solutions will be included in the City's Stream Restoration and Erosion Control Program and implementation of projects will be prioritized city-wide. Affected property owners will be contacted as part of a future design phase after the study.

Sincerely,

Hazel Breton, P.Eng.
Manager
Stormwater Management Infrastructure
Design & Construction, Linear Underground Infrastructure
Engineering & Construction Services

MAP OF YELLOW CREEK RECOMMENDED SOLUTION AREA NORTH OF ST. CLAIR AVE. E.



From: Crystal Watts
To: Aadila Valiallah
Cc: Hans Lincourt; Suresh Sharma
Subject: [External Sender] Yellow Creek Restoration Project impacting PIN 21119-0162
Date: November 9, 2023 3:17:22 PM
Attachments: image001.png
image2023-11-09-130722.pdf

Hello Aadila,

We received the attached letter today via registered mail # RN 724 958 060 CA. CPKC does not allow easements (whether temporary or permanent) to be registered on our property. I have cc'd Hans Lincourt on this email, please reach out to him should you require a temporary, fixed term, or long term access agreement to CPKC property for the Yellow Creek Restoration Project.

Thank you,

Crystal Watts
Analyst Real Estate
7550 Ogden Dale Road SE, Building 1
Calgary AB T2C 4X9

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Date	Impacted Property	Message
09-Nov	Canadian Pacific PIN 21119-0162	We received the attached letter today via registered mail # RN 724 958 060 CA. CPKC does not allow easements (whether temporary or permanent) to be registered on our property. I have cc'd Hans Lincourt on this email, please reach out to him should you require a temporary, fixed term, or long term access agreement to CPKC property for the Yellow Creek Restoration Project.
15-Nov	Canadian Pacific PIN 21119-0162	Thank-you for the correspondence. The City is currently developing a Master Plan for the creek and final impacts on he property are not yet known. Once the Master Plan is approved and included in the City's Stream Restoration and Erosion Control Program, project that have been prioritised will move into detailed design. Further follow-up will be done at that time. I have noted Hans Lincourt as the contact person. For updated information on the study and Master Plan process please visit the project web page.

Impacted Property #	Impacted Property Street	Letter (insert copy into cell - see Tip Sheet)	Type of Notification Issued (registered letter, email, personal delivery etc…)	Date Issued	Confirmed Receipt? If no, how many attempts made to reach owner?	PCU Notes
16	Rose Park Cres	saved in file	registered mail	31-Oct-23		
PIN 21119-0162	PIN 21119-0162	saved in file	registered mail	31-Oct-23	received	email correspondence