

RECORD OF PUBLIC ENGAGEMENT

Gibraltar Point Erosion Control Project, Addendum

**Class Environmental Assessment for Remedial Flood and Erosion
Control Projects**

February 2018

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1 OVERVIEW

The Gibraltar Point Erosion Control Environmental Assessment (EA) Addendum process contains a consultation program that exceeds the requirements of section 4.2 (Table 4) of Conservation Ontario’s *Class EA for Remedial Flood and Erosion Control Projects* (Amended 2013). The consultation activities undertaken are summarized in the following sections. In addition to the legislated public consultation requirements, the Addendum process for the Gibraltar Point Erosion Control Project includes additional engagement activities such as presentations to a Community Liaison Committee, a project website containing information and feedback forms for the project and a Public Meeting. Engagement with Indigenous communities was also an important part of the Gibraltar Point EA Addendum process and is documented in a separate report.

1.1 Notice of Intent

A Notice of Intent was distributed on August 12, 2016 in the local newspaper and was directly mailed to members of the Community Liaison Committee, representatives at Conservation Ontario and several other government agency representatives. **Table 1** contains a list of stakeholder groups that received the Notice of Intent for the Gibraltar Point Erosion Control EA Addendum Project. The Notice of Intent included an introductory letter to the community and an information package, which included a summary of the project history, a study area map, the formal Notice of Intent publication for newspapers, and a summary of upcoming project work.

Table 1. Stakeholders contacted on August 12, 2016 through a Notice of Intent.

Agency	Contact
CLC members	All CLC Members
Indigenous community representatives	See Record of Indigenous Engagement
TRCA Internal Technical Staff	TRCA Staff
Leslie Rich/Bonnie Fox - Conservation Ontario	Leslie Rich and Bonnie Fox
MOECC	Chunmei Liu and John Arciuh -
City of Toronto Water -	Bill Snodgrass
MNRF	Chris Hislop; Emily Funnell; Margaret Berube; Megan Eplett; Mark Heaton; Steve Varga; Peter Felix -- - -
Polster Environmental (interested person requesting information)	David Polster -
Park Supervisor, Toronto Island, City of Toronto	Warren Hoselton,
Waterfront Parks, City of Toronto	James Dann,
Ministry of Attorney General	Laurie Esienberg -
Environment Canada	Laud Matos
Ports Toronto	Michael Riehl
Ontario Ministry of Transportation	Roger Hanmer
Transport Canada	Suzanne Shea

The stakeholders listed in **Table 1** will also be contacted during the release of a Notice of Filing.

1.2 Community Liaison Committee

The TRCA engaged members of the CLC throughout all project milestones, including the detailed design stages following approval of the 2008 Environmental Study Report (ESR) and during the EA Addendum process in 2016. TRCA held meetings with the CLC on March 24, 2010 and on June 16, 2010 to discuss the detailed engineering and construction approach for the Gibraltar Point Project. Additional meetings with City agencies and the Ministry of Natural Resources and Forestry occurred between 2010 and 2013 prior to commencement of the Addendum. All work on the project was halted after completion of preliminary detailed design report in 2015.

In 2016, a Notice of Intent was distributed to members of the CLC and other stakeholders. TRCA staff also held a meeting with the CLC on September 27, 2017 at Artscape Gibraltar Point (on the Toronto Islands) to present the Addendum project timelines and next steps. Additional information was provided with respect to the review and confirmation of the preferred concept identified in 2008 approved ESR Report.

In November 2017, a notice for a public meeting was released in the local newspaper (The Mirror, Beaches) and individual letters were distributed to stakeholders advertising the public meeting for the Gibraltar Point EA Addendum. A record of meeting minutes and presentation materials used at the public meeting are provided in **Appendix B** of this report. Overall, members of the CLC were in support of the project and expressed a level of urgency with undertaking construction of the project. CLC members also requested that the TRCA monitor the project and consider impacts to natural features if the detailed design process involves undertaking land based access during construction. **Appendix B** contains a detailed record of engagement activities with members of the CLC.

1.3 Public Meeting

In the interest of good planning and project management, a public meeting was held at the Harbourfront Centre on November 16, 2017 to present and receive feedback on the Addendum process and refinement of the preferred design concept for the Gibraltar Point Erosion Control Project. A Notice of the Public Meeting was posted in the local newspaper 2 weeks prior to the meeting. A presentation by TRCA technical staff and Consultant Team as well as a comment form were presented to participants at the open house. All information provided at the public meeting, including a copy of the panels, and presentation slides were posted to the project website. A presentation and comment form was provided to members of the public at the public meeting as well as online. Presentation materials and comments received at and following the public meeting are in **Appendix C**.

1.4 Notice of Filing

A Notice of Filing was prepared and released on March 22, 2018 in the local newspaper (The Beaches, Mirror) at the time of filing the ESR Addendum. A copy of the Notice of Filing is provided in **Appendix D** of this report. The Notice of Filing is accompanied by the Addendum Report and original 2008 ESR Report and hard copies of the Addendum report is also providing in two public libraries (City Hall and Fort York Public Library) on March 22, 2018. Comments on the Addendum report will be collected for a period greater than 15 days, ending April 12th 2018. The Notice of Filing and Copies of the Addendum Report are also circulated to members of the CLC, Conservation Ontario, and interested persons identified during the EA Addendum process.

APPENDIX A

TRCA
Gibraltar Point Erosion Control Project, Addendum
NOTICE OF INTENT INFORMATION PACKAGE

Thursday, August 18, 2016

Re: Gibraltar Point Erosion Control Project, Addendum – Notice of Intent

Toronto and Region Conservation Authority (TRCA) is initiating an addendum to an Environmental Assessment (EA) completed in 2008 to provide long-term erosion protection of the Toronto Island, along the southwest shoreline, approximately located between Hanlan's Beach and Gibraltar Point, in the City of Toronto. This will be completed through the planning and design process prescribed by the *Conservation Ontario Class Environmental Assessment for Remedial Flood and Erosion Control Projects*.

A "Notice of Intent" formally initiating the study appeared in the Beach Mirror and The Parkdale Villager newspapers on August 18, 2016.

If you have any comments or questions about the project or wish to be involved in this study, please do not hesitate to contact me by phone at **(416) 661-6600 Ext. 5249** or by email **crochon@trca.on.ca**.

Sincerely,



Caitlin Rochon
Project Coordinator, Project Management Office
Toronto and Region Conservation Authority

Enclosed (2) Notice of Intent, Study Area Map

Study Area



**Gibraltar Point Erosion Control Project, Addendum
Notice of Intent Information Package**

**Class Environmental Assessment for
Remedial Flood and Erosion Control Projects**

August 24, 2016

Notice of Intent

NOTICE OF INTENT GIBRALTAR POINT EROSION CONTROL PROJECT ADDENDUM

Toronto and Region Conservation Authority (TRCA) has commenced an addendum study to an Environmental Assessment (EA) that was completed and approved in 2008 to provide long-term erosion protection of the Toronto Island, along the southwest shoreline, approximately located between Hanlan's Beach and Gibraltar Point, in the City of Toronto. Erosion control measures were not implemented within five years of the approval, and as such, an addendum under Section 6.0 of the *Class Environmental Assessment for Remedial Flood and Erosion Control Projects* (Class EA) process is required.

TRCA invites you to participate in this study, which is subject to approval through the Class EA addendum process approved for this type of undertaking. Your input will be incorporated in the planning and design process for this project.

If you wish to be involved in this study, or to receive further information please contact:

Ethan Griesbach
Project Manager II
Toronto and Region Conservation Authority
Office Location: 101 Exchange Avenue, Vaughan, ON L4K 5R6
Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4
Phone: 416-661-6600 ext. 5364
Email: egriesbach@trca.on.ca
Website: www.trca.ca/gp

Subject to comments received as a result of this addendum study and the receipt of necessary approvals and funding, TRCA intends to proceed with the construction of this project.

Pour recevoir ces renseignements en français, veuillez communiquer avec nous à l'adresse suivante: egriesbach@trca.on.ca

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

Notice Published: August 18, 2016



Project History

Gibraltar Point is located at the southwesterly tip of the Toronto Islands, on Lake Ontario. Erosion has been documented at Gibraltar Point since 1879. In 1972, significant storm damage prompted the first of several studies recommending various long-term remedial solutions. Despite these recommendations, no major remedial actions were financially supported. Attempts were made to protect the Gibraltar Point shoreline with gabion baskets and rubble. These attempts had short-term success as they failed to address the large-scale coastal processes affecting the site.

A severe storm event in February 2004 caused significant damage to an existing washroom building and associated infrastructure, prompting the City of Toronto to request the assistance of the Toronto and Region Conservation Authority (TRCA). TRCA responded by immediately securing the shoreline adjacent to the washroom with emergency shoreline protection.

TRCA with support from the City of Toronto, completed an Environmental Study Report (ESR), in accordance with Conservation Ontario's *Class Environmental Assessment for Remedial Flood and Erosion Control Projects* (Class EA) to develop a long-term solution to address the shoreline erosion around Gibraltar Point (TRCA, 2008). As part of the Class EA process, TRCA retained Shoreplan Engineering to complete a coastal analysis to determine the regional processes around Gibraltar Point and assist with the development of alternative long-term solutions to the shoreline erosion.

The results of Shoreplan's investigations determined that although erosion and deposition are occurring at various locations between the Western Gap and Gibraltar Point, there is an overall net loss of sand resulting in ongoing shoreline erosion. A comparison of hydrographic survey data shows a lowering of the lakebed in the nearshore area around Gibraltar Point, which is consistent with the undermining and eventual failure of previous local shoreline protection works. Furthermore, Shoreplan's findings indicated that over the next 100 years, a substantial loss of highly valuable recreational and ecological land is projected, ultimately resulting in the breaching of the Islands from Lake Ontario to the Inner Lagoons within the next 20-25 years.

The preferred alternative identified through the Class EA process was a sand management plan, which recognized that some form of offshore structure would likely be required to reduce the volume and frequency of sand required to be placed up drift of Gibraltar Point. The preferred offshore concept developed through the Class EA process was a breakwater. On March 17, 2008 the findings of the Gibraltar Point Erosion Control Project were approved under the Class EA process. A copy of the Environmental Study Report can be found on the project website (www.trca.ca/gp).

In 2009 TRCA and the City of Toronto retained W. F. Baird and Associates (Baird) to undertake a Phase II Coastal Engineering Study (Phase II Study) which included coastal engineering analysis and final design for the Class EA outcomes. As part of their Phase II Study, Baird was directed to complete two supporting assessments: 1) evaluate potential offshore sand sources for an active sand management approach at Gibraltar Point; and 2) and assess the projects potential impacts on the formation of transitional hind dune system present at Hanlan's Beach.

1) Baird concluded that if an entirely non-structural approach for erosion control was selected, approximately 30,000 to 60,000 cubic metres of sand (or 3,000 to 6,000 truckloads) would be required every year in the area of Gibraltar Point, to avoid continued erosion through the existing coastal processes. Given the uniqueness of the sand dune processes along Hanlan's beach, the sand selected would also need to meet very specific conditions to allow those dune processes to continue. The report evaluated a variety of local nearshore sand sources along Lake Ontario. It concluded that all of the sources were either inappropriate for use at Gibraltar Point due to physical limitations (e.g., grain size, sand quality, volume) and/or incompatibilities with other shoreline management strategies. It is also fundamentally impractical to deliver the required volumes of sand on an annual basis, without significant costs and significant disruption to beach users.

2) In 2010, in order to address comments raised on the projects potential impact to the formation of the transitional hind dune system present at Hanlan's, Baird and TRCA met with two independent volunteer experts on the project Community Liaison Committee. The two experts agreed with Baird's analysis that:

- (i) the observed westward advance of Hanlan's Beach and the formation of transitional hind dunes was due to human expansion of the Toronto Island Airport, and
- (ii) Hanlan's Beach has likely reached capacity, and, hence, the beach front will no longer migrate westward as a result of ongoing erosion at Gibraltar Point. Therefore, the observed transitional hind dunes will shortly, or have already begun to stabilize to upland forested habitat, even without any intervention (i.e. no focused sand management or off-shore structure).

As a result of the supporting studies, Baird's Phase II Study will complete a detailed assessment of offshore structures that could be combined with a sand management approach; that, would involve the placement of locally acquired sand onto the shoreline in the area of Gibraltar Point, over a period basis, to restore land lost to erosion. Possible offshore structures for a preferred alternative identified in the 2008 Class EA include submerged sills, low-crested structures, emergent breakwaters, and groynes. Two additional alternatives will be assessed including a stand-alone sand management approach and an offshore breakwater, groyne, with focused sand management. Subject to the findings of the addendum process and prior to construction, Baird will finalize their Phase II Study.

Since 2008, the unprotected land around Gibraltar Point continues to be subject to significant erosion, putting places of culture, natural ecosystems (such as Environmentally Significant Area, an Area of Natural and Scientific Interest, and Provincially Significant Wetlands) and built infrastructure in jeopardy of complete loss. This project seeks not only to protect the loss of the island, and risks to infrastructure, but also to ensure that sand transport remains in place to maintain existing beaches and sand dunes.

In 2016 partial funding was secured from the City of Toronto to implement the Gibraltar Point Erosion Control Project. In accordance with the Class EA 5-year review process the 2008 EA requires an amendment. The objective of this amendment is to reconfirm our understanding of

the existing conditions of the shoreline and to ensure that the underlying conditions and results of the Ministry of the Environment and Climate Change approved Class EA remain valid. The amendment will be completed prior to the start of construction.

PROJECT STUDY AREA



APPENDIX B

TRCA
Gibraltar Point Erosion Control Project, Addendum
COMMUNITY LIAISON COMMITTEE MATERIALS

June 30, 2016

Bruce Hollowell
Toronto Police Lifeguard Services

Re: Gibraltar Point Erosion Control Project – Invitation to Participate on the Community Liaison Committee (CLC)

Toronto and Region Conservation Authority (TRCA) announced the completion of a *Conservation Ontario Class Environmental Assessment for Remedial Flood and Erosion Control Projects* (Class EA) for the Gibraltar Point Erosion Control Project at Authority Meeting #4/08 held on May 23, 2008. TRCA undertook this Class EA at the request of the City of Toronto to identify a preferred long-term and sustainable solution that addressed the erosion of Toronto Island at Gibraltar Point to prevent further loss of recreational beaches, parkland, and unique habitats, and to protect existing infrastructure (Project).

The Class EA identified a sand management plan as the preferred approach to resolve the observed long-term shoreline erosion. A sand management plan can be described as an ongoing maintenance program designed to move sand to areas up drift of Gibraltar Point that will act as a source of material to replenish sand that is lost from the nearshore and beach areas through coastal erosion processes.

The Class EA identified a range of methods for implementing this sand management plan varying from one end of the spectrum (a stand-alone, long-term operating commitment to relocate sand to the offshore area) to the other end of the spectrum (a stand-alone, engineered offshore breakwater), which includes methods incorporating both a sand management and offshore breakwater component to varying degrees.

In December 2009, TRCA retained W.F. Baird and Associates to undertake the Phase II numerical modeling coastal engineering analysis and final design of the preferred approach (Phase II Study). Part of the Phase II Study work was to identify the best approach for the sand management plan, taking into account the project objective of providing long-term shoreline protection and maintaining dynamic beach processes, while balancing the immediate capital costs and the long-term operating costs of the final solution. The report analyzed a stand-alone sand management plan (alternative #1) and a breakwater and groyne with focused sand management (alternative #2). The evaluation concluded that alternative #1 was not cost effective as nearshore and offshore sand sources do not have sufficient volume or suitable grain size and/or quality for ongoing, sustainable sand management at Gibraltar Point.

As the Class EA project has been approved, but construction has not been initiated within five years of the project's approval, the project will be reviewed in accordance with the planning and design process of current Class EA requirements, and new documentation will be prepared.

As a continuation from the earlier Class EA process, the Community Liaison Committee (CLC) will be reconvened to facilitate Project communication.

Given your past involvement on the CLC we would like to invite you once again to represent your agency or community association on the committee. We ask that you please confirm your availability to participate as soon as possible or identify a delegate if possible.

The first meeting of the CLC is tentatively scheduled for **September 14, 2016**. This initial meeting will allow CLC members to be introduced to the study team and the detailed work plan for the study. The first CLC meeting will also include a summary of the original Class EA and the outputs of the ongoing Phase II Study. CLC members are invited to provide comment and advice about any aspect of the project. A formal agenda for this first meeting will be distributed in August 2016.

Enclosed is a copy of the Terms of Reference, outlining the roles, membership and function of the CLC.

Please contact Caitlin Rochon at 416-661-6600 ext. 5249, or by email at crochon@trca.on.ca, to confirm your participation on the CLC. If you have any questions, please feel free to contact me at 416-661-6600 ext. 5364, or by email at egriesbach@trca.on.ca. We look forward to seeing you.

Yours truly,

Ethan Griesbach,
Project Manager, Project Management Office
Restoration & Infrastructure Division

Encl.

June 30, 2016

Dave Fleming
Hanlan's Beach Naturalists

Re: Gibraltar Point Erosion Control Project – Invitation to Participate on the Community Liaison Committee (CLC)

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Yours truly,

Ethan Griesbach,
Project Manager, Project Management Office
Restoration & Infrastructure Division

Encl.

June 30, 2016

Garth Armour
City of Toronto Parks, Forestry & Recreation

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Ethan Griesbach,
Project Manager, Project Management Office
Restoration & Infrastructure Division

Encl.

June 30, 2016

Gary Stinson
Toronto Water

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Jenny Bull
Island Resident

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Re: Gibraltar Point Erosion Control Project – Invitation to Participate on the Community Liaison Committee (CLC)

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Yours truly,

Ethan Griesbach,
Project Manager, Project Management Office
Restoration & Infrastructure Division

Encl.

June 30, 2016

Joanna Kidd

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June 30, 2016

Linda Ashley-Crane
Ministry of Tourism

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Mary Louis Byrne

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Ray Stedman
Gibraltar Point Centre for the Arts

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City of Toronto Parks, Forestry & Recreation

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Community Liaison Committee (CLC)

Purpose:

- Provide public input concerning the planning process of the Gibraltar Point Erosion Control Class EA

Objectives:

- Identify opportunities and items of public concern
- Offer advice or suggest solutions to resolve concerns
- Engage in collaborative discussion to increase project understanding
- Represent your community in the planning process
- Assist in the dissemination of information

Member of Conservation Ontario

TORONTO AND REGIONAL CONSERVATION AUTHORITY

Gibraltar Point Erosion Control Project

Community Liaison Committee Meeting
September 27, 2017
6:30 – 8:30 pm
Artscape Gibraltar Point



CLC Ground Rules



- Avoid use of jargon
- Listen to each comment with respect
- Ask questions
- Share information with the group
- Participate in discussions and allow others to do so as well
- Strive to ensure that the best interests of all community members are taken into account
- Avoid use of cellphones

Member of Conservation Ontario

TORONTO AND REGIONAL CONSERVATION AUTHORITY

Introductions



Project Team

- TRCA
- City of Toronto
- Baird Consultants

Technical Input

- TRCA
- City of Toronto

CLC

Member of Conservation Ontario

TORONTO AND REGIONAL CONSERVATION AUTHORITY



Today's Meeting

- Presentations and Discussion
- Scope will focus on Gibraltar Point Erosion Control Project
- Meeting notes – record of attendees, decisions and main points of discussion, not verbatim



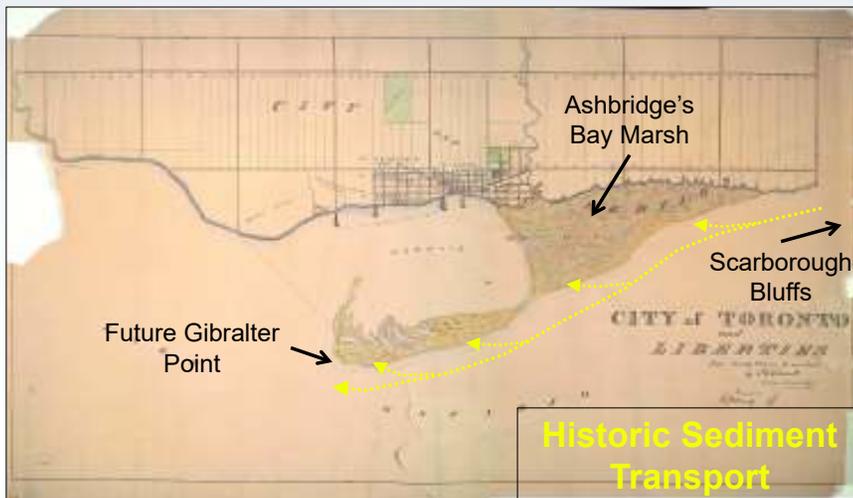
Agenda

1. **Project Overview (TRCA)**
 - Erosion and the Toronto Islands
 - Review of the original EA
 - Revised preferred concept
 - Dune beach restoration plan
 - Construction plan
2. **Revised Preferred Concept Overview (Baird)**
3. **Questions & Discussion Period**
3. **Closing**



Formation of Toronto Islands - 1834

- A peninsula, or sand spit that formed over the last 3,500 to 5,000 years due to the deposition of sediment from a number of sources.



Formation of Toronto Islands - 1901

- Urban development and storms changed the form and function of the islands over time





Formation of Toronto Islands - 2017

- Historic sediment sources for Toronto Island have been considerably reduced or removed entirely, resulting in sediment deprivation at Gibraltar Point.



Shoreline Erosion – Process & Change Over Time

Absent a replenishment source, sediment is eroded from Gibraltar Point and transported north to Hanlan's Beach and into the Western Gap.



Impacts of Erosion at Gibraltar Point

Recreation



Aquatic Habitat



Infrastructure



Terrestrial Habitat



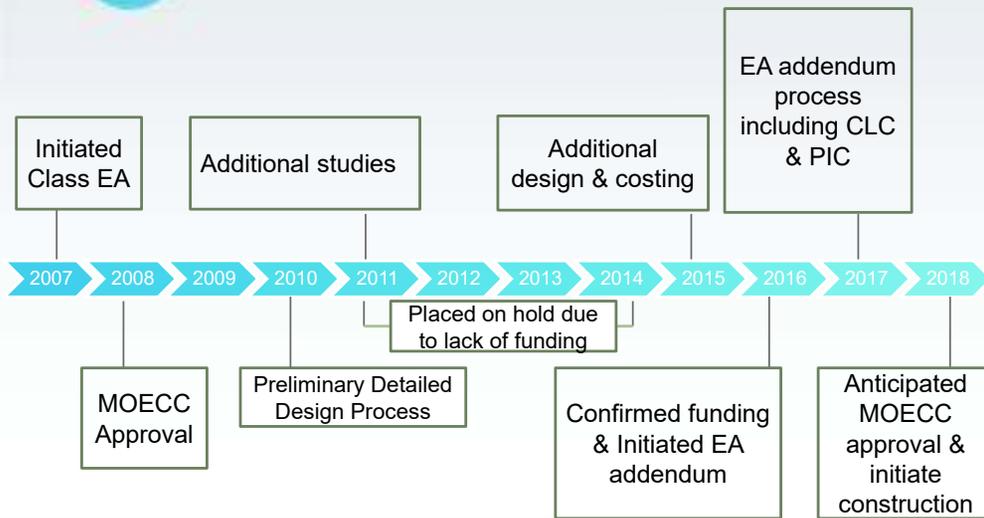
Project Objective

Develop a long-term, sustainable solution to erosion of Toronto Islands, in the area of Gibraltar Point to:

- Protect infrastructure and public safety; and
- Preserve and enhance existing aquatic and terrestrial habitat



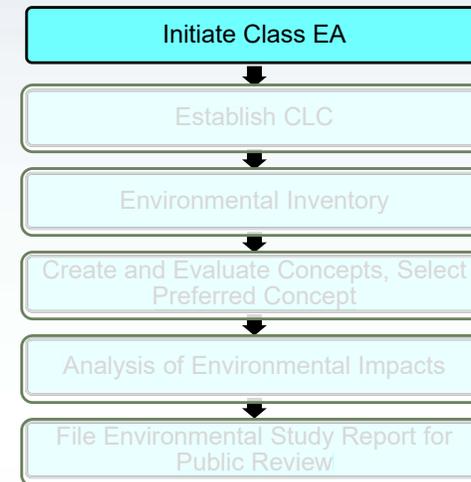
Project Timeline-at-a-Glance



*MOECC – Ministry of Environment and Climate Change

Class EA Process

Class Environmental Assessment for Remedial Flood and Erosion Control Projects (Class EA) – as approved in 2007



Concepts



- Concepts were reviewed and refined in consultation with the CLC
- Metrics included type and extent of impact, effectiveness, feasibility, and cost

Preferred Concept

- Offshore structure with a “sand management” program
- Further refined through engineering analysis and design in 2015



Class EA Amendment Process



Initiate Class EA



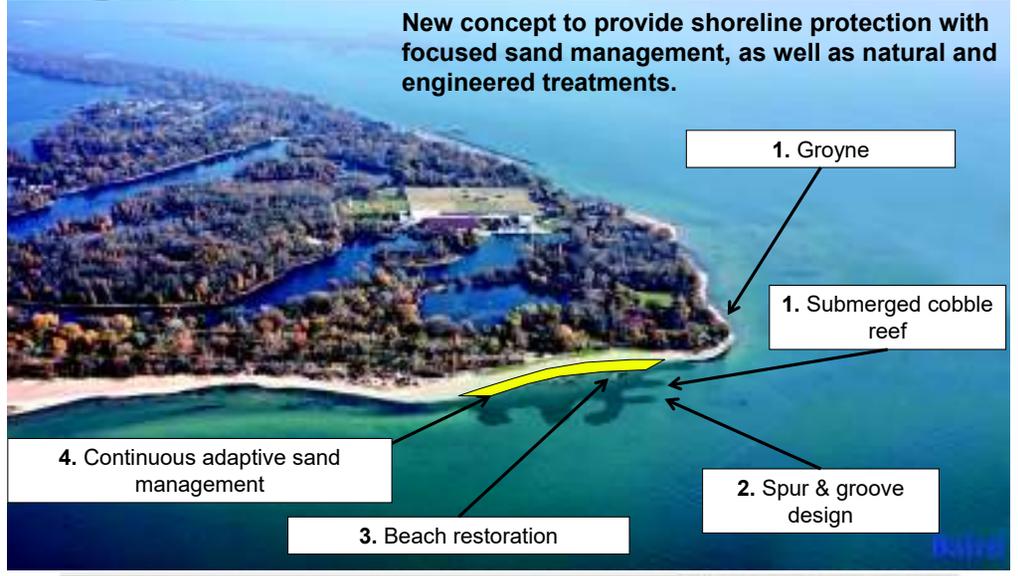
- **Class EA 5-year review process → If 5 years have passed between EA approval and construction, amendment required**
- **Step back and reconfirm conditions and ensure findings remain valid...can the preferred concept be improved?**

Confirmed funding & Initiated EA addendum

Revised Preferred Concept - 2017



New concept to provide shoreline protection with focused sand management, as well as natural and engineered treatments.



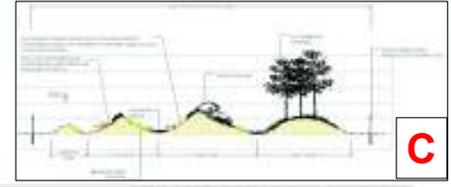
Restoration at Gibraltar Point



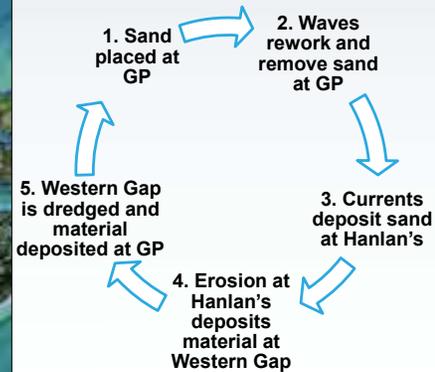
- Revised preferred concept combined with a dune beach restoration plan
- Design will be based off existing dune habitats on Toronto Island
- Will provide recreational and ecosystem benefits, as well as enhance shoreline protection



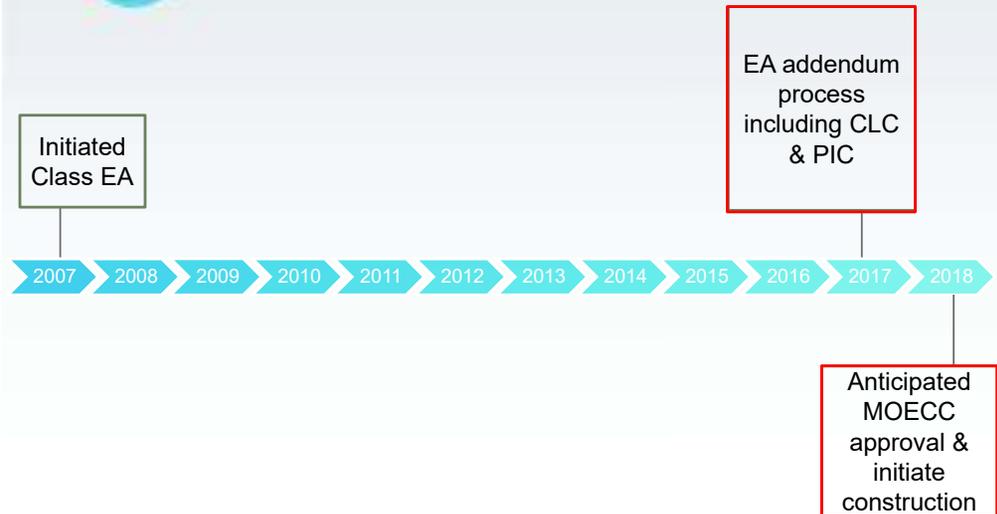
Beach "Dune" Restoration Concept



Reaching a Dynamic Equilibrium



Project Timeline-at-a-Glance

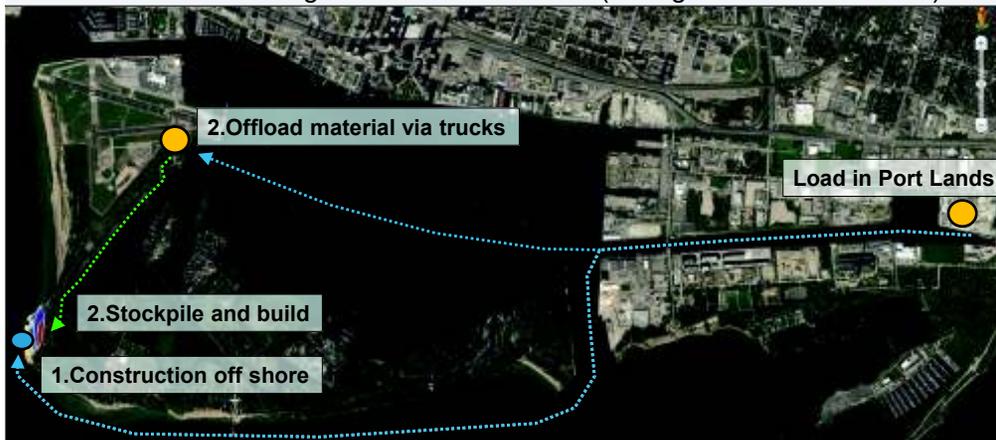


*MOECC – Ministry of Environment and Climate Change

Construction Approach



- Land and marine based approach
- Phase 1 – Marine based outer structure & groyne (fall 18'/winter 19')
- Phase 2 – Remaining structure built on land (during "off season" 19'-22')



Benefits of New Concept



- Natural Design:** Simulates natural features and creates aquatic and terrestrial habitats as part of the remedial action.
- Innovative:** Largest shoal built along the Toronto Waterfront, in the areas cleanest waters.
- Fast-Tracked:** Restoration of shoreline as part of initial construction phase & breakwater presented longer construction period, with heightened risks.
- Affordable:** Original breakwater estimated to be in order of +\$10 million more in capital costs.



Next Steps

- Completed handouts to be provided to Corey Wells **by October 11, 2017**
- Public meeting to be held middle to end of November 2017 – more information to follow

Send completed handouts to:

Corey Wells

Project Coordinator, Special Projects

Project Management

Office: 416-661-6600 ext. 5233

cwells@trca.on.ca

Questions

1. Do you agree with the replacement of the original preferred concept identified in the 2008 Class EA (Figure 1) with the new revised preferred concept (Figure 2)?

Yes

No

Please provide an explanation:

- * LIKE THE EMPHASIS ON FISH & TERRESTRIAL HABITAT
- * LIKE REPLACEMENT OF REVEGETATION WITH REEF
- * LIKE PROPOSAL TO RESTORE DUNES
- * LIKE REDUCTION IN COST
- * LIKE INCLUSION OF MONITORING & MAINTENANCE ASPECTS INTO CLASS EA.

2. Do you have any questions or comments as they relate to the beach dune restoration plan (Figure 3)?

- * APPROVE OF PROPOSAL TO RESTORE BEACH / DUNES
- * LIKE FENCE TO CONTROL ACCESS + FOOTPATH TO GET TO BEACH.

Notes/Additional Comments

* PLEASE MONITOR TO ENSURE THAT EFFORTS TO RESTORE DUNES ARE NOT WASHED AWAY! (WE HAVE SEEN THIS).

* CONSIDER TRYING IN REF TO PROPOSED GROUPE TO ANCHOR EAST ~~END~~ SIDE

* ACCORDING TO MY INFORMATION, ENVIRONMENTALLY SIGNIFICANT AREA EXTENDS ALL THE WAY TO GUBRATOR POINT



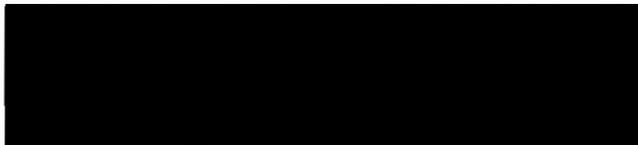
∴ MUST CONSIDER WAT LAND-BASED CONSTRUCTION.

* PLEASE ADD ESA TO MAPS AND DIAGRAMS.

* NOTE CLASS EA & OLC STARTED IN 2004, NOT 2007.

* VITAL THAT WORK START ASAP ON THIS PROJECT. ONE MORE HIGH WATER YEAR AND INFRASTRUCTURE WILL BE AT SERIOUS RISK

Please leave your completed questionnaire at the sign-in desk on your way out or, if you'd like more time, please send your comments to Corey Wells at the address listed on the cover page of this hand out no later than **October 11, 2017**.





Re: Gibraltar Point Erosion Control Project - Community Liaison Committee

██████████ to: Caitlin Rochon

07/19/2016 09:10 AM

History:

This message has been replied to.

I would be pleased to attend the meeting. Please keep me informed of the time and date.

██████████
Quoting Caitlin Rochon <CRochon@trca.on.ca>:

> Good morning ██████████
>
> I am writing on behalf of Toronto and Region Conservation Authority to
> invite you to participate in the upcoming Community Liaison Committee
> (CLC) for the Gibraltar Point Erosion Control Project tentatively
> scheduled for the evening of September 14, 2016. The attached invitation
> and Terms of Reference contain additional information on the project and
> CLC.
>
> Thank you,
>
> Caitlin Rochon | Project Coordinator, Project Management Office |
> Restoration & Infrastructure Division | Toronto and Region Conservation
> Authority | Office Location & Courier Address: 101 Exchange Avenue,
> Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto,
> Ontario M3N 1S4 | (416 661-6600 ext. 5249 | (647-537-4185 | *
> crochon@trca.on.ca | 8 www.trca.ca
>
>
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Teach CanIt if this mail (ID 0aRkB9Nqf) is spam:
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Fraud/Phish:

<https://antispam.roaringpenguin.com/canit/b.php?i=0aRkB9Nqf&m=1a58d875655d&t=20160719&c=p>

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Forget vote:

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END-ANTISPAM-VOTING-LINKS

RE: Gibraltar Point Erosion Control Project - Community Liaison Committee 

Caitlin Rochon to: [REDACTED]

07/06/2016 09:09 AM

Hi Lisa,

If you are able to replace [REDACTED] on the Community Liaison Committee to represent the Gibraltar Point Centre for the Arts or recommend a colleague who would like to participate in his place that would be lovely. As I'm sure your aware the tentative date for the CLC meeting is September 14.

Thanks,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | 📞 416 661-6600 ext. 5249 | 📠 647-537-4185 | ✉️ crochon@trca.on.ca | 🌐 www.trca.ca

[REDACTED] Hi There Caitlin, My colleague forwarded your e... 07/04/2016 11:59:05 AM

From: [REDACTED]
To: "'CRochon@trca.on.ca'" <CRochon@trca.on.ca>,
Date: 07/04/2016 11:59 AM
Subject: RE: Gibraltar Point Erosion Control Project - Community Liaison Committee

Hi There Caitlin, My colleague forwarded your email to me. I'm currently the manager at Artscape Gibraltar Point. I hear you are in touch with my colleague Sam regarding booking a meeting here. I would be happy to assist in any way I can. Please advise.

Warm Regards,

[REDACTED]

From: [REDACTED]
Sent: Thursday, June 30, 2016 12:18 PM
To: [REDACTED]
Subject: FW: Gibraltar Point Erosion Control Project - Community Liaison Committee

From: Caitlin Rochon [<mailto:CRochon@trca.on.ca>]
Sent: Thursday, June 30, 2016 11:55 AM
To: AGP
Subject: Fw: Gibraltar Point Erosion Control Project - Community Liaison Committee

Good morning,

I am trying to contact [REDACTED] who was formerly a member of our Community Liaison Committee for the Gibraltar Point Erosion Control Project. If Ray is no longer with the Gibraltar Point Centre for the Arts could you please recommend a new contact that would be interested in representing your organization at

two upcoming CLC meetings tentatively scheduled for September 14, 2016 and spring 2017.

Thank you,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | ☎ 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉ crochon@trca.on.ca | 🌐 www.trca.ca

----- Forwarded by Caitlin Rochon/TRCA on 06/30/2016 11:51 AM -----

[Redacted]

[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]

- [Redacted]
- [Redacted]
 - [Redacted]
 - [Redacted]
 - [Redacted]

[Redacted]

To:	[Redacted]
cc:	[Redacted]
Date:	11:37:16 AM AST Today
Subject:	Gibraltar Point Erosion Control Project - Community Liaison Committee

Good morning [Redacted]

I am writing on behalf of Toronto and Region Conservation Authority to invite you to participate in the upcoming Community Liaison Committee (CLC) for the Gibraltar Point Erosion Control Project tentatively scheduled for the evening of September 14, 2016. The attached invitation and Terms of Reference contain additional information on the project and CLC.

Thank you,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | ☎ 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉ crochon@trca.on.ca | 🌐 www.trca.ca

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Thank you."

RE: Gibraltar Point Erosion Control Project - Community Liaison Committee 

Caitlin Rochon to: [REDACTED]

07/06/2016 09:05 AM

Hi [REDACTED],

Apologies for the spelling error in your name, I was working from an old spreadsheet which I have now updated. The September date is tentative so we will keep in mind your schedule when we are finalizing with the venue. If we are not able to move the date we would be happy to meet with you at a different time to go over the project.

Thanks,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | ☎ 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉ crochon@trca.on.ca | 🌐 www.trca.ca

[REDACTED] [Hi Caitlin I would like to participate further in thi...](#) 07/04/2016 01:55:44 PM

From: [REDACTED]
To: Caitlin Rochon <CRochon@trca.on.ca>,
Date: 07/04/2016 01:55 PM
Subject: RE: Gibraltar Point Erosion Control Project - Community Liaison Committee

Hi Caitlin

I would like to participate further in this work as I often wondered what the outcome was from the 2008 meetings. However, I have a pretty heavy schedule for September 14 (with meetings that run until 7:00 on campus in Waterloo) and will not be able to make that meeting. If there is the chance that the meeting be re-scheduled, then I would gladly join. Otherwise, I will have to give my regrets.

[REDACTED]

From: Caitlin Rochon [<mailto:CRochon@trca.on.ca>]
Sent: June-30-16 11:36 AM
To: [REDACTED]
Subject: Gibraltar Point Erosion Control Project - Community Liaison Committee

Good morning [REDACTED]

I am writing on behalf of Toronto and Region Conservation Authority to invite you to participate in the

upcoming Community Liaison Committee (CLC) for the Gibraltar Point Erosion Control Project tentatively scheduled for the evening of September 14, 2016. The attached invitation and Terms of Reference contain additional information on the project and CLC.

Thank you,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | 📞 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉ crochon@trca.on.ca | 🌐 www.trca.ca

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Thank you."

Re: Gibraltar Point Erosion Control Project - Community Liaison Committee 

Caitlin Rochon to: [REDACTED]

07/06/2016 08:53 AM

Hi [REDACTED]

The Gibraltar Point Erosion Control Detailed Design report is still in draft and is undergoing some internal reviews prior to finalization. I will send out the report to the entire CLC in advance of the meeting in September. Thank you for your continued participation, I look forward to seeing you there.

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 | 📞 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉️ crochon@trca.on.ca | 🌐 www.trca.ca

[REDACTED] Hi Caitlin, I would be happy to participate in...

07/03/2016 11:39:52 AM

From: [REDACTED]
To: Caitlin Rochon <CRochon@trca.on.ca>,
Date: 07/03/2016 11:39 AM
Subject: Re: Gibraltar Point Erosion Control Project - Community Liaison Committee

Hi Caitlin,

I would be happy to participate in the continuation of this process. It seems like a reasonable approach has been developed and I look forward to seeing how the final plans are developed.

Is it possible to send me the final Baird Report since the material I have all goes back to 2010.

Thanks
[REDACTED]

From: "Caitlin Rochon" <CRochon@trca.on.ca>

To: [REDACTED]

Sent: Thursday, 30 June, 2016 11:38:02 AM

Subject: Gibraltar Point Erosion Control Project - Community Liaison Committee

Good morning [REDACTED],

I am writing on behalf of Toronto and Region Conservation Authority to invite you to participate in the upcoming Community Liaison Committee (CLC) for the Gibraltar Point Erosion Control Project tentatively scheduled for the evening of September 14, 2016. The attached invitation and Terms of Reference contain additional information on the project and CLC.

Thank you,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division | **Toronto and Region Conservation Authority** | Office Location & Courier Address: 101 Exchange

Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 |
☎ 416 661-6600 ext. 5249 | (647-537-4185 | ✉ crochon@trca.on.ca | 🌐 www.trca.ca

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Thank you."



RE: Gibraltar Point Erosion Control Project - Community Liaison Committee
 Sean Harvey
 to:
 'Caitlin Rochon'
 07/07/2016 01:04 PM
 Hide Details
 From: [REDACTED]
 To: "'Caitlin Rochon'" <CRochon@trca.on.ca>,

Hello Caitlin

I'm no longer working PF&R. Perhaps you should contact Alex Shevchuk for a new contact from his group unless you have another person from PF&R already engaged.

[REDACTED]

From: Caitlin Rochon [<mailto:CRochon@trca.on.ca>]
Sent: June-30-16 11:40 AM
To: [REDACTED]
Subject: Gibraltar Point Erosion Control Project - Community Liaison Committee

Good morning [REDACTED],

I am writing on behalf of Toronto and Region Conservation Authority to invite you to participate in the upcoming Community Liaison Committee (CLC) for the Gibraltar Point Erosion Control Project tentatively scheduled for the evening of September 14, 2016. The attached invitation and Terms of Reference contain additional information on the project and CLC.

Thank you,

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division |
Toronto and Region Conservation Authority | Office Location & Courier Address: 101 Exchange Avenue,
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Gibraltar Point Erosion Control Project Addendum Community Liaison Committee Minutes

**Wednesday September 27, 2017
Artscape Gibraltar Point
443 Lakeshore Avenue, Toronto, ON M5J 2W2
6:30 – 8:30 pm**

MINUTES

1. Welcome, Introductions, and Housekeeping - TRCA

- Welcome and opening comments from the Chair.
- Public meeting in November will be open to broader public and will include more island topics. Date has not as of yet been determined but will be circulated to the CLC once selected.
- Purpose & objectives of the CLC was reviewed.
- The Chair provided an overview of the ground rules and goals of today's meeting.

2. Project Overview – TRCA

- A presentation was provided by Corey Wells at the TRCA
- Islands history as well as form and function of the islands was reviewed. The Toronto Islands themselves started off as drifting sand bars, maintained through erosion and the westward transport of sediment removed primarily from the Scarborough Bluffs.
- A severe storm in the mid 1800's punctured the peninsula, effectively separating the islands from the mainland creating what we now know of today as the Eastern Gap.
- More recent impacts to the form and function of the Toronto Islands include the creation of Tommy Thompson Park, which functions as a barrier to the westward transportation of sediment to the islands.
- The dynamics of sediment transport were looked at more closely, using Gibraltar Point and Hanlan's Beach as a case study. Patterns of erosion show a complex interplay of sediment loss at Gibraltar Point and subsequent build up and enhancement of beach front at Hanlan's Beach.
- Thus, the project is not just one of erosion control, but a sediment management issue.
- A more holistic review of the potential impacts erosion has on the islands was discussed. This includes recreational and ecosystem impacts (both aquatic and terrestrial), as well as concerns for Park and City planning.

- A timeline of the project was reviewed, including an overview of the Class Environmental Assessment Process. Original concepts identified through the screening process were presented, followed by the selection of the preferred concept, was included a sand management plan and a physical structure.
- The sand management plan involves the strategic placement of sand to replace that lost through erosion and to ensure the continued maintenance of Hanlan's Beach. The physical structure would be built to mitigate the effects of erosion at the Point.
- The EA Amendment process was described. Amendments are required if five or more years have elapsed since the approval of an EA and the initiation of construction.
- Through the amendment process, the revised preferred concept was identified. The revised preferred concept still maintains the sand management plan and implementation of a physical

structure, but does so in a softer, more naturalized way through the development of a nearshore submerged stone reef structure.

- The revised preferred concept also contains within it a restoration plan, which will aim to reintroduce ecosystem and recreational benefits to Gibraltar Point through the construction of a beach dune restoration area.
- A dynamic equilibrium concept will be reintroduced, one that aims to reinstate the natural cycle of sediment movement on the islands prior to the effects of urbanization. An example was provided, where material is removed from Gibraltar Point and eroded northwestward to nourish Hanlan's Beach. Eventually, this material would be eroded and deposited in and around the Western Gap. The sand management plan could utilize the material located at the Western Gap, where it could be replaced at Gibraltar Point, thus restarting the cycle.
- Regarding the construction approach, the aim would be to stage out of the Port Lands and move material via barge to the island. The first phase would involve the construction of the outer portion of the stone reef structure via marine based construction. The next stage would land based, where trucks would be barged to the island, where they would then offload material at the point. The fine details of the construction approach will need to be evaluated over the coming months.

2.1 Comments and discussion

- It was clarified by one of the CLC members that the formation of the CLC group as highlighted in the presentation was incorrect. The actual year of CLC formation was 2004.
- Mike R. from Ports Toronto inquired as to how long the outside portion of the structure would take to build – Norm P. (TRCA) estimates approximately 3 months to complete.
- A CLC member wanted to clarification on how the ongoing sand management plan will be funded in the long-term.
 - Ken D. (TRCA) indicated that, in addition to the monitoring and maintenance plan we will implement as part of our EA obligations, TRCA will be working with the City of Toronto to explore funding opportunities.
 - Additional funding sources will also be looked into. For example, grants from the National Research Council of Canada (NRCAN).
- Andre F (Councilors Office) inquired as to whether or not the construction of the reef structure would result in a beach closure at Hanlan's? TRCA respond be saying that Hanlan's Beach should not be impact during construction. Access roads may be temporarily closed depending on route selected, however, these road related impacts should occur primarily off-season. Gibraltar Point will likely experience some sort of temporary closure for construction but timing will need to be considered.

3. Description of the Revised Preferred Concept – Baird Engineering

- Mohammad D. with Baird provided a technical overview of the revised preferred concept.
- Current estimates indicate that the shoreline in and around Gibraltar Point is eroding at a rate of approximately 4 m per year.
- The purpose of the project is to mitigate the rate of erosion currently taking place at Gibraltar Point
- The dynamics of sediment movement across the southwestern shore was explored. Current patterns show that erosion at Gibraltar Point results in the build out and nourishment of Hanlan's Beach over the long-term.
- Based on the preliminary design, the reef crest (top of the reef structure) will remain submerged under regular lake level conditions. Reef crest elevation is set at 0.6 m below chart datum.
- Mohammad D. clarified that the preliminary reef concept cross-sections are using an exaggerated vertical scale – the reef edge is much more gently sloping (~1:5 slope).

- The structure itself will be comprised of stone, decreasing in size from the largest material at the outward edge (armour stone) to cobble and pebbles closest to the shoreline (100-50 mm in size)
- Inner most portion of the structure (the dark grey coloured polygon on the plan view concept) will be comprised of sand.
- The stone itself will be irregularly shaped, i.e., not rounded.
- A beach dune restoration plan will be implemented behind the structure along the shore, enhancing both aquatic as well as terrestrial habitat.
- From a technical wave mitigation perspective, the nearshore reef structure will work to dissipate wave energies as they approach the shoreline. Wave heights are dramatically reduced as waves strike the reef edge, hitting the shoreline with minimal impact.
- The nearshore reef will also work to mitigate undertow, or the capacity of the waves to erode and carry material back out towards the lake. Undertow velocities will be reduced.
- Currently, longshore drift works to carry the eroded material northwestward where it becomes deposited in and around Hanlan's Beach.
- As part of the revised preferred concept, a beach dune restoration plan will be implemented at Gibraltar Point. The plan will reintroduce ecosystem and recreational benefits back to the area while simultaneously providing a natural form of shoreline protection to supplement that provided by the nearshore stone rock.
- Once constructed, the beach dune area will be allowed to evolve naturally over time via wind and wave action.
- It was clarified that the physical component of the erosion project, the nearshore stone reef, will not eliminate erosion from the point entirely. During periods of high lake levels some natural erosion will take place.
- Grain size will be an important factor in beach design. A sand that is too fine grained will require greater volumes and will erode more rapidly while sand that is too coarse may not be appropriate for beach dune building process to occur.
- With respect to the adaptive sand management plan, under low lake level conditions (i.e., the reef elevation is closer to the surface) sand will move inland with waves and work to build the dunes. Under high lake level conditions (i.e., greater depth between lake surface and reef elevation, material will be eroded and transported to Hanlan's Beach.
- The placement of sand will be "adaptive", i.e., its placement and movement will be closely monitored to obtain a better understanding of how much sand is required and where it is best placed. This information will be used to guide future sand placement.

4. Question and Answer Period

Q1. Based on the current beach dune restoration plan, will the beach itself eventually begin to "stretch" and evolve to the right of Gibraltar Point (i.e., southeast)?

A1. Yes, over time it is likely that the restored beach at Gibraltar Point will expand based on prevailing winds and wave action. However, it is difficult to predict exactly how the beach itself will evolve over the long-term and how variability between years will modify its overall design.

Q2. What is the size of stone that will be used for the construction of the reef?

A2. The outer perimeter will be built using armour stone between 600-900 mm in diameter, designed with a 1:5 slope. Moving towards the shore, the stone class (size) will decrease progressively, from cobbles to pebble and eventually sand.

Q3. Due to severity of storms in the area, will the nearshore reef itself stay in place? What impact will this have on the dunes?

A3. The reef structure was designed to withstand the frequency and severity of storms typical of Lake Ontario and experienced by the Toronto Island shoreline. Modelling of the stone reefs performance under a variety of storm and wave height conditions was conducted to ensure the structure can adequately dissipate wave energy prior to it striking the shoreline, providing significant reductions in the capacity of a given storm to contribute to erosion at Gibraltar Point.

Q4. Regarding the different size classes of stone used to make up the structure, how long is each section going to be? Can you describe the reef structure in more detail?

A4. The nearshore stone reef will aim to mimic the erosion protection provided by naturally occurring reef systems and through its design will provide improvement in local ecology and recreational amenity.

The crest of the nearshore reef extends to approximately 1.5 m below chart. The reef is approximately 130 m at its widest section and has a constant crest elevation of 74.2 m IGLD'85. The average crest width is approximately 90 m, with the lakeward perimeter roughly following the historic shoreline of 1980. The perimeter itself will have an approximate slope of 1:5 built with large stones to protect it against incoming waves. The nearshore reef covers an area of approximately 32,000 m² requiring 60,000 to 65,000 tonnes of stone. Stone size will decrease as you approach the shoreline, transitioning from cobble to pebble to coarse sand.

Stone sizing was determined through modelling and other quantitative analysis. Variability in width and the sinuous nature of the perimeter are a result of aiming to achieve a naturalized design while also "building out" the sections of the reef that will be exposed to the most severe storms (e.g., the south east section of the reef).

Q5. How long before you will have to surcharge the reef with additional stone?

A5. While rock quality is a strong factor in determining the performance and maintenance schedule of any erosion control structure, Baird estimates that rock integrity should exceed the 50 year standard. This is due to the fact that the structure will remain submerged under regular lake level conditions and will not be exposed to the same erosive forces caused by wind and wave action as experienced by emergent structures.

A monitoring and maintenance plan will be developed to ensure that the structure is inspected at regular intervals so as to ensure performance is maintained. A similar program will be developed for the ecological monitoring component, which will be led by the TRCA.

Q6. The structure was originally referred to as an underwater shoal, while it is now called a nearshore reef. Why did the name change and what exactly is the distinction?

A6. While definitions vary slightly, the following are from the USACE Shoreline Protection Manual:

Nearshore – in beach terminology an indefinite zone extending seaward from the shoreline well beyond the breaker zone

Reef – an offshore consolidated rock hazard to navigation, with least depth of 20 m

Shoal – a detached elevation of the sea bottom comprised of any material except rock or coral, which may endanger surface navigation.

Based on the above definitions, it was determined that nearshore reef more accurately characterizes the physical component of the erosion control project.

Q7. With respect to the sand management plan, where will the sand come from?

A7. A number of sources are being considered, including material offshore of Gibraltar Point, the Western Gap, and in the future the potential to use dredgeate from the Don Mouth. Grain size, soil quality (i.e., material that meets or exceeds provincial and federal guidelines), and proximity to Gibraltar Point are some of the primary factors being considered as part of the evaluation process.

Currently, the TRCA is in the process of obtaining sediment samples from the Western Gap for determination of physical characteristics. There is a considerable amount of material located within airport exclusion zone at Billy Bishop, however, it is unlikely that this material can be obtained.

Q8. The area between the nearshore reef and the proposed groyne to the east will not be enhanced as part of this erosion control project. Based on this, what will happen to this area? Is the area adequately protected?

A8. Existing shoreline protection works (armouring) for the area between the reef structure and groyne are stable and are adequately protecting the point from erosion, thus, this area of the shoreline will stay as it but will be monitored as part of all TRCAs erosion control structures. Construction of the groyne to the east will increase stability of the area.

Q9. Should the nearshore stone reef tie into the groyne, i.e., should the revised preferred concept wrap around Gibraltar Point and form one large, contiguous shoreline protection feature?

A9. This was not considered as part of the revised preferred concept because, as described in A8 above, the existing armouring on the point appears stable and is functioning as intended. There is likely enough armouring material already present in and around the point that “wrapping” the reef concept would be unnecessary. However, Baird and the TRCA will look into this, as bathymetric data is available.

Q10. Can you describe what a “Spur and Groove” design is and why it is included in this design?

A10. Spur and groove formations are natural geomorphic features of reefs. They consist of ridges formed by corral or rock “spurs” which are separated by channel “grooves”. Including these features into the revised preferred concept aids in the development of a softer, more naturalized approach to shoreline protection while simultaneously enhancing aquatic habitat.

Q11. It was mentioned that this type of shoreline protection feature has more risk than more traditional breakwater designs. Can you explain why this is the case?

A11. Compared to a more traditional breakwater design, artificial reef structures are relatively new approaches to shoreline protection and thus have fewer examples and long-term data sets of performance to draw from. Additionally, as part of its more naturalized approach, artificial reef structures are less static, or fixed, in their design, and allow for some level of dynamic movement as the structure settles and evolves over time. An adaptive sand management approach will assist in better managing this risk.

Q12. Will there be a “buffer” zone between the dunes and shoreline?

A12. As part of the beach dune restoration concept, a dedicated recreational space will be constructed that will separate the sensitive dune habitats from the reef structure. This zone will be dynamic in nature and will likely evolve over time depending on storm dynamics and lake level variability between any given year and over the long term.

Q13. Some people refer to the south end of Hanlan’s as the clothing optional area which you refer to as Gibraltar Point in your presentation. The boundaries should be better defined so as to minimize confusion.

A13. This recommendation will be considered for future presentations and project reporting.

APPENDIX C

TRCA
Gibraltar Point Erosion Control Project, Addendum
PUBLIC MEETING INFORMATION AND CORRESPONDENCE

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OUR VIEW

Term limits are a temptation best avoided

Sometimes it seems that nobody overstays their welcome so well and easily as does a long-serving city councillor.

With inertia on their side in the form of long-held incumbency, they have an easy time of it come re-election time, or at least some of them do. Voters in some parts of the city don't seem to know when to get rid of a bad, or even just mediocre councillor.

Last month, Beaches-East York Coun. Mary-Margaret McMahon made it clear she's not going to be one of those councillors.

She was first elected in 2010, and in 2017, she confirmed she will follow through on what she promised them: she would serve two terms and then step aside. City politicians, she said, should not stick around more than two terms.

As refreshing as it is to see a politician follow through on her promises and stick to her principles, it is hard to follow McMahon's reasoning too far - particularly to the point that she has continually advocated: term limits for city politicians.

McMahon has twice put forward motions asking council to set a two-term limit. Doing so, she argues, might promote a more diverse and representative council, and would certainly clear out the old and allow the new to gain a foothold.

If that were all we cared about in a city council, then term limits would make a lot of sense. But in the context of governing a city the size and complexity of Toronto's, there is more to consider. Which is to say that experience and deep institutional knowledge and understanding is crucial - as is a professional understanding of public service.

That sort of depth can be gained after just a few years in office, perhaps. But it is squandered, if developed in a politician whose political lifespan wouldn't even run to the end of an elementary school education.

More commonly, city councillors only find their feet after their rookie term in office, and hit their stride in the third and fourth term.

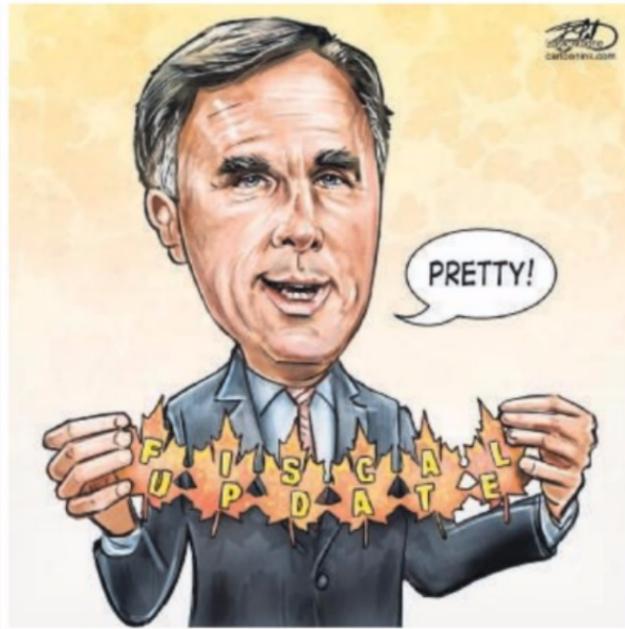
Why squander that? There is the matter of accountability.

A two-term councillor is really only accountable to the electorate in the second election, after that rookie term. Disappointed voters in the second term have no recourse but to wait it out.

And that leads us to a final point to consider: Incumbency may offer an advantage, but only insofar as voters are apathetic.

If a city councillor has overstayed his or her welcome, it is up to their disappointed constituents to do something about it.

Term limits do nothing but let lazy voters off the hook.



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Basing car insurance on postal codes isn't fair

The Kanetix.ca map showing car insurance rates by neighbourhood is something every Torontonians should see.

It looks strikingly like maps showing Toronto's highest concentrations of poverty.

Angry red the company uses to show highest rates covers North Etobicoke, the Jane Street corridor in North York, the former City of York, Scarborough along Eglinton Avenue and north of Hwy. 401.

It's white, signifying lowest rates, in places like Rose-dale, Lawrence Park, and Bloor West Village.

As my colleague Justin Skinner reported recently, drivers in North Scarborough pay \$2,300 on average - \$850 more than people in the wealthy core.



MIKE ADLER
Edges of Toronto

That's driving them "to the poorhouse," says Jim Karygiannis, a Scarborough-Agincourt councillor who knows some of his constituents are registering vehicles elsewhere to avoid their rates.

David Marshall's report to the province, released in April, was clear: something's very wrong, since "Ontario's roads continue to be among the safest in

North America," but premiums in 2015 were 55 per cent higher than the Canadian average, excluding Ontario.

The Financial Services Commission of Ontario is supposed to make sure the rates are "just and reasonable." They're based on the vehicles, where drivers live, driving experience, and their accident and conviction history.

But postal codes - just the first half of postal codes - carry enormous weight, which is unfair.

I benefited a while, while I lived in downtown North York. Then I moved not far very west, into a postal code for Downsview. My rate took a huge jump.

Yes, there's a plaza at Bathurst and Sheppard where you can watch people maneuver around the park-

ing lot like they were steering shopping carts at Costco.

But are they so much worse than drivers south of the 401, a short walk from where I live, where rates are much lower?

I had a Civic, Canada's most popular car, so insurance companies punished me for that. They taught me buying a larger, more expensive, car will pay off if you keep it long enough.

Kathleen Wynne's Liberal government pledged years ago to cut rates by 15 per cent, and hasn't. They're supposedly dedicated to reducing income inequality. The map tells a different story.

Reach Edges columnist Mike Adler at madler@insidetoronto.com

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NOTICE OF PUBLIC MEETING

GIBRALTAR POINT EROSION CONTROL PROJECT CLASS ENVIRONMENTAL ASSESSMENT - ADDENDUM

Toronto and Region Conservation Authority (TRCA) and City of Toronto are hosting a public meeting for the Gibraltar Point Erosion Control Project, Class Environmental Assessment Addendum (Gibraltar Point Project). The meeting will also include information regarding the recent flooding on the Toronto Islands. Please join us to learn more about the Gibraltar Point Project, Lake Ontario impacts on the Toronto Islands, and provide feedback on the preferred Gibraltar Point Erosion Control design concept.

Date: Thursday, November 16, 2017
Open House: 5:30 p.m. – 8:30 p.m.
Presentations: 6:30 p.m.
Place: Harbourfront Centre – Brigantine Room, 235 Queens Quay West

Gibraltar Point Project background
TRCA announced the completion of a Conservation Ontario Class Environmental Assessment for Remedial Flood and Erosion Control Projects (Class EA) for the Gibraltar Point Erosion Control Project in 2008 (the Project). TRCA undertook this Class EA at the request of City of Toronto in order to identify a preferred long-term and sustainable solution that addressed the erosion of Toronto Island at Gibraltar Point. As the Project was not implemented within a five year time period, and in accordance with the Class EA, an addendum process was initiated and a "Notice of Intent" was distributed in August of 2016.

We would like to hear from you
The public meeting will be held to discuss the Project with the community, which will include a review of the original Class EA, an update to the erosion control design, and a question and answer period. The meeting will also include information regarding recent and long term Lake Ontario impacts on the Toronto Islands.

For more information, contact:
Meg St John
Project Manager, Project Management Office
Toronto and Region Conservation Authority
Mailing Address: 5 Shoreham Drive,
Downsview, ON M3N 1S4
Email: mstjohn@trca.on.ca
Website: www.trca.ca/gp



This venue is wheelchair accessible. Please contact to arrange for additional accommodations.

Pour recevoir ces renseignements en français, veuillez communiquer avec nous à l'adresse suivante: mstjohn@trca.on.ca
Under the Freedom of Information and Protection of Privacy Act and the Environmental Assessment Act, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person.



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Gibraltar Point Erosion Control Project

Environmental Assessment Addendum HANDOUT & COMMENT FORM



Purpose of the Meeting

- To seek feedback on the Gibraltar Point Erosion Control Environmental Assessment (EA) Addendum project.
- To review the revised preferred concept.

Project Overview

The Gibraltar Point Erosion Control Project - a *Conservation Ontario Class Environmental Assessment for Remedial Flood and Erosion Control Projects* (Class EA) – was completed on May 23, 2008. TRCA and the City of Toronto developed a preferred long-term and sustainable erosion control solution at Gibraltar Point called – the **preferred concept**.

The project has been on hold for over 5 years and now requires an addendum under the Class EA Act.

Meeting Information

Thursday November 16, 2017
Harbourfront Centre
Brigantine Room
235 Queens Quay West
Toronto, ON M5J 2G8
5:30 – 8:30 PM

**Please return comments by
December 1, 2017**

Project Contact:
Meg St John, Project Manager
mstjohn@trca.on.ca
101 Exchange Avenue, Vaughan ON
416-661-6600 ext. 5621
mstjohn@trca.on.ca

Project Timeline

Why are we undertaking an EA Addendum?

Class EA Process

This project is subject to the requirements of the Environmental Assessment Act (EA Act) in order to ensure that environmental effects are considered when undertaking flood or erosion control projects.

Figure 1 shows the planning process and timeline for the Gibraltar Point Erosion Control Project EA.

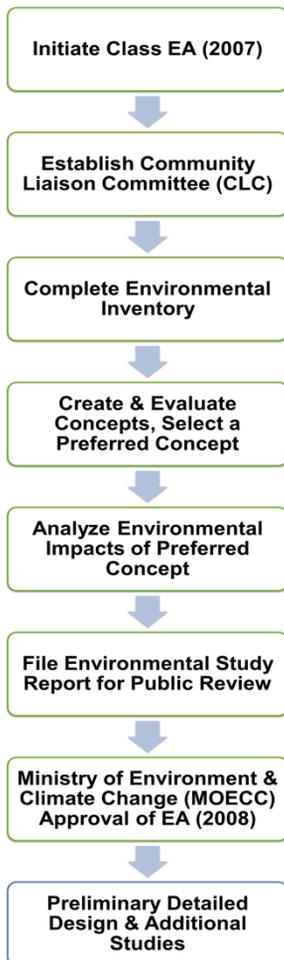


Figure 1. Gibraltar Point Class EA Process.

The Addendum Process

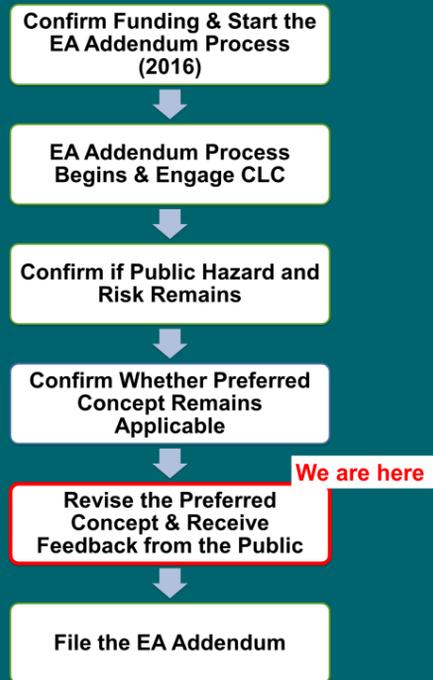


Figure 2. Gibraltar Point Class EA Addendum Process and Project Timeline.

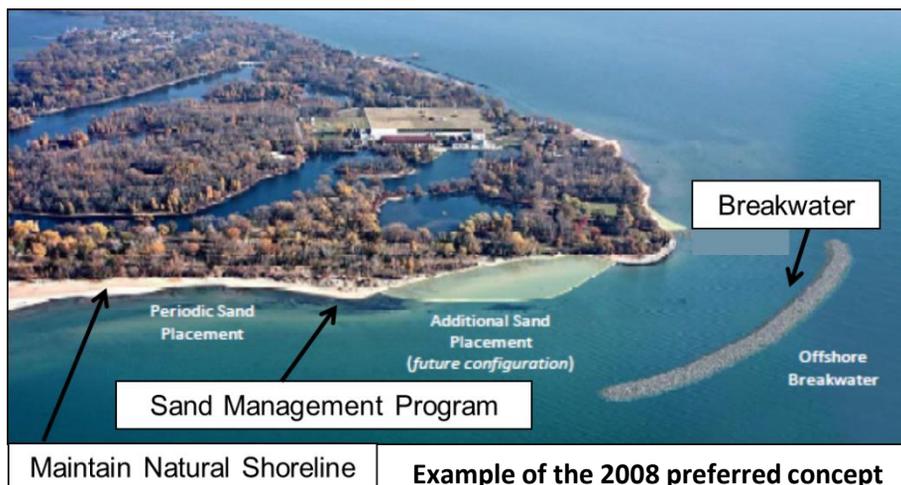
If 5 years have passed between approval of the EA and construction, the project team is required to undertake an Addendum to the EA. The Addendum:

- Describes the circumstances necessitating a change to the project;
- Describes the environmental implications of the change;
- Identifies mitigation methods that will be employed to mitigate negative impacts of the change; and,
- The addendum is filed for a period of 15 days for public review.

Revisiting the Preferred Concept

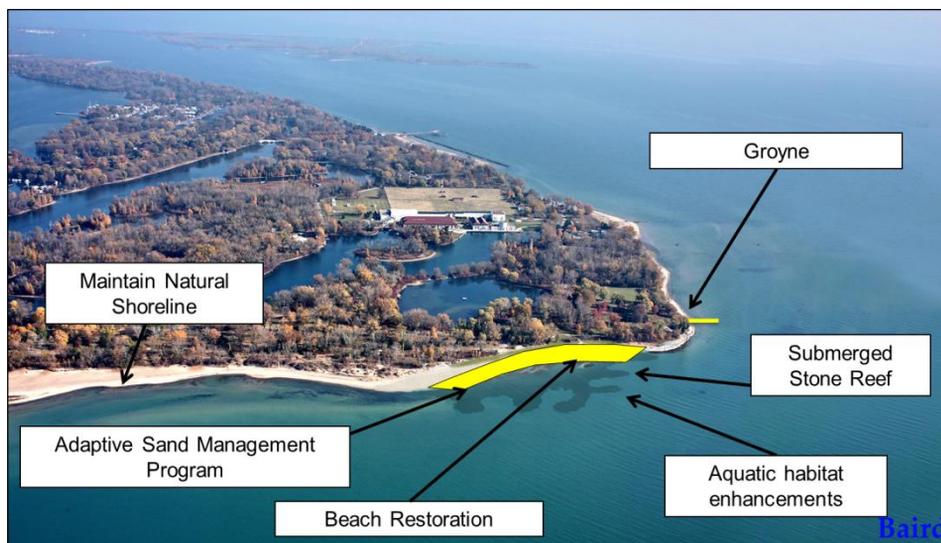
2008 Preferred Concept

A **sand management plan** that recognizes that some level of **offshore protection** (to act as erosion protection) may be required to ensure that the project is technically and economically feasible.



2017 Revised Preferred Concept

A sand management program and erosion protection, as approved in 2008, are still the preferred concept for Gibraltar Point Erosion Control. Revisions to the preferred concept include: a natural engineered solution (submerged nearshore stone reef) instead of a breakwater, an improved adaptive sand management plan, a beach restoration plan, and a physical structure (i.e. groyne) connected to the shoreline.



Example of the 2017 revised preferred concept

WELCOME

Public Meeting | November 16, 2017



The Gibraltar Point Erosion Control Project Addendum

Purpose of the Meeting:

- To seek feedback on the Gibraltar Point Erosion Control Environmental Assessment (EA) Addendum project; and,
- To review the revised preferred concept.

Meeting Overview:

- Historical context and existing conditions;
- Project purpose and objectives;
- The EA Addendum process;
- The 2008 preferred concept;
- Revisions to the 2008 preferred concept;
- Construction and monitoring; and,
- Next steps.

Lake Ontario Impacts on the Toronto Islands

Purpose of the Meeting:

- To provide information to the public on the recent and long-term impacts occurring at the Toronto Islands.

Meeting Overview:

- Lake Ontario water levels this year;
- City of Toronto and TRCA initiatives;
- Regional context of Lake Ontario processes;
- The City of Toronto and Toronto and Region Conservation Authority's response to the flooding of the Toronto Islands; and,
- Next steps.



GIBRALTAR POINT EROSION CONTROL PROJECT ADDENDUM

WELCOME

Welcome to the public meeting for the Gibraltar Point Erosion Control Project Environmental Assessment (EA) Addendum.

This meeting will focus on:

- The formation of the Toronto Islands;
- Sand supply and erosion of Gibraltar Point;
- History of the Gibraltar Point Erosion Control Project EA; and,
- The 2017 revised preferred concept for Gibraltar Point EA Addendum.

Comments on this public meeting are due on December 1, 2017.

PROVIDE FEEDBACK!

Please collect a handout from the registration table in order to provide written comments. You may leave your handout with registration at the end of the meeting or submit your comments by **December 1, 2017.**

The open house materials will be available on the project website.

www.trca.ca/gp

Mail to:

Meg St John, Project Manager

Toronto and Region Conservation Authority

101 Exchange Avenue, Vaughan ON

416-661-6600 ext. 5621

mstjohn@trca.on.ca



GIBRALTAR POINT EROSION CONTROL PROJECT



Toronto



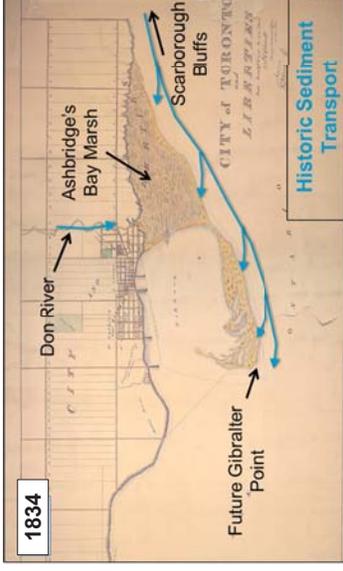
Toronto

HISTORY OF SEDIMENT

Historical Sediment Transport

The Toronto Islands formed over the last 5,000 years and started as a 9 km drifting sand bar, formed as a result of:

- Northeast to southwest sediment transport; and,
- Supply of sand from the erosion of the **Scarborough Bluffs** and the **Don River**.



Island Formation

The supply of sediment to the Islands was cut off due to the following natural and planned construction activities:

- A severe storm in 1852 that created the **Eastern Gap**;
- Dredging of sand at the Eastern Gap; and,
- Construction of the **Leslie Street Spit** in 1960.



Sediment Today

- Although erosion of the Scarborough Bluffs continues to release sand into Lake Ontario, sediment is not reaching Gibraltar Point.
- Without a source of sediment, Gibraltar point continues to experience erosion. Sand eroding from Gibraltar Point is transported north to **Hanlan's Point Beach** and into the **Point Beach** and into the **Western Gap**.



STUDY AREA



Background

Gibraltar Point is located at the southwesterly tip of the Toronto Islands, on Lake Ontario. During the winter of 2004, a severe storm led the City of Toronto to request emergency assistance from the Toronto and Region Conservation Authority to protect an existing washroom building from shoreline erosion. As a result, the Gibraltar Point Erosion Control Project, Environmental Assessment (EA) was completed and approved in 2008. Detailed design and construction of the project was put on hold for over 5 years. An Addendum to the EA is now underway.



GIBRALTAR POINT EROSION CONTROL PROJECT



EXISTING CONDITIONS



Terrestrial Habitat

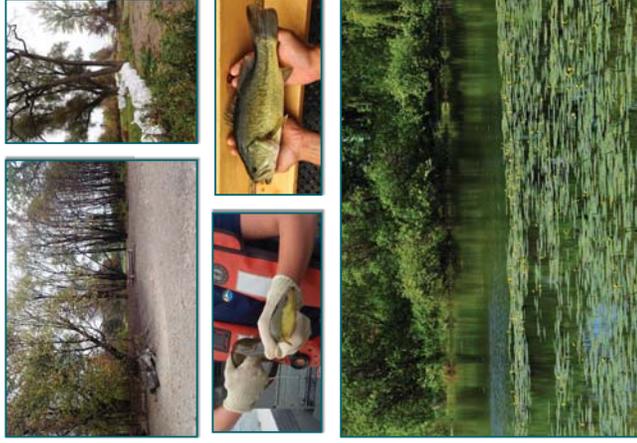
Terrestrial habitat along the southwestern shoreline of the Toronto Islands includes:

- Toronto Island Area of Natural and Scientific Interest;
- Vegetated and eroding sand dunes with a narrow beach;
- Successional natural habitat and cottonwood woodlands;
- Provincially Significant Wetlands and wet meadow marsh;
- An Ecological Significant Area; and,
- Parkland.

Aquatic Habitat

The **open water** and **nearshore** area of Gibraltar Point and Hanlan's Beach provide little habitat due to the exposed nature of the shoreline.

Trout Pond provides critical nursery and juvenile habitat for fishes along the Toronto waterfront.



From left to right: Gibraltar Point Beach and sandbags at Gibraltar Point Beach on November 2017; An American Eel (*Anguilla rostrata*) and Largemouth Bass (*Micropterus salmoides*); and Trout Pond, September 2017.

PROJECT JUSTIFICATION

Erosion at Gibraltar Point

Without a constant source of sediment, Gibraltar Point continues to experience erosion at a significant rate. Past attempts to protect Gibraltar Point from erosion have not addressed the large-scale coastal processes involved in the transport of sediment.

- In recent decades, the following processes have reduced the supply of sediment (i.e. sand) at Gibraltar Point:
- Toronto Shoreline alterations such as the hardening of the Eastern Gap; and,
 - Construction of the Leslie Street Spit.



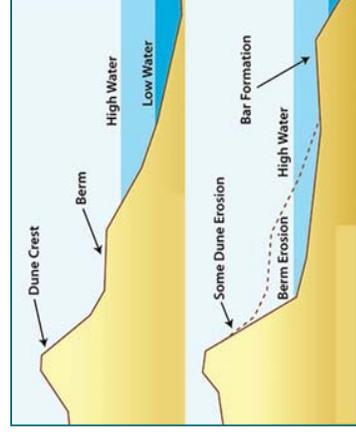
A concept map of erosion and the movement of sand caused by wave action at Gibraltar Point.



Erosion of sand dunes and beach area at Gibraltar Point Beach (November 2017).

What is Shoreline Erosion?

- Erosion is the process of gradual washing away of sediment and is caused by waves, lake currents, ice accumulation and changes in water levels along a shoreline.
- Erosion removes sand from one location and may lead to the formation of beaches or sand dunes at a different location (e.g. nourishment of sand at Hanlan's Point Beach is a result of erosion and sediment transport from Gibraltar Point).



Conceptual example of the process of shoreline erosion.

PURPOSE & OBJECTIVES

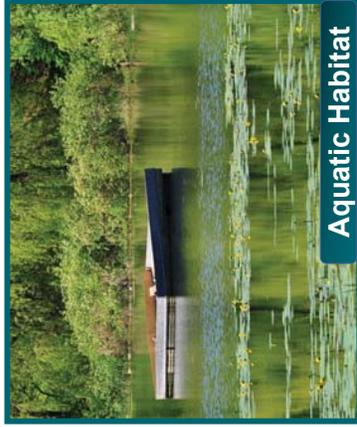
Purpose of the Undertaking

To develop a long-term, sustainable solution to halt further erosion of the Toronto Islands around Gibraltar Point, which will protect existing infrastructure and public safety, and both preserve and enhance existing aquatic and terrestrial habitat.

Objectives



Recreation



Aquatic Habitat



Terrestrial Habitat



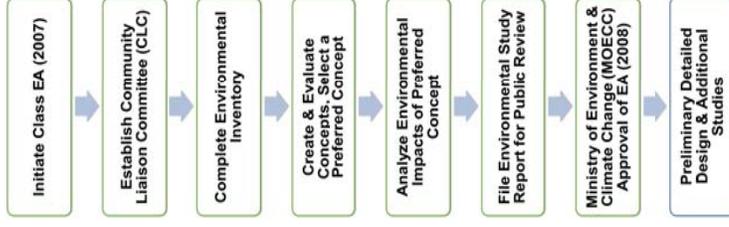
Infrastructure



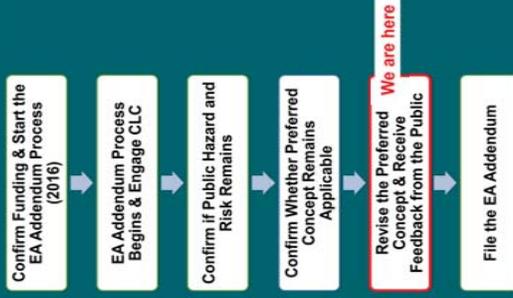
Class EA Process

This project is subject to the requirements of the Environmental Assessment Act (EA Act) in order to ensure that environmental effects are considered when undertaking flood or erosion control projects.

A planning process called "The Class Environmental Assessment for Remedial Flood and Erosion Control Projects (Amended 2013)" was completed in 2008. The process guides Conservation Authorities when addressing a flood or erosion problem.



The Addendum Process



Why is an Addendum Required?

An addendum to the Gibraltar Point Erosion Control Project EA is required because over 5 years have passed between EA approval and construction. The Addendum:

- Describes the circumstances necessitating a change to the project;
- Describes the environmental implications of the change;
- Identifies mitigation methods that will be employed to mitigate negative impacts of the change; and,
- Is filed for a period of 15 days for public review.

REVISITING THE PREFERRED CONCEPT

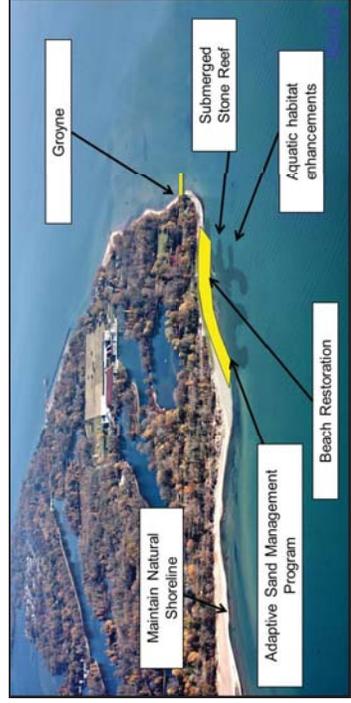
2008 Preferred Concept

A **sand management plan** that recognizes that some level of **offshore protection** (to act as erosion protection) may be required to ensure that the project is technically and economically feasible.



2017 Revised Preferred Concept

A sand management program and erosion protection, as approved in 2008, are still the preferred concept for Gibraltar Point Erosion Control Project. Revisions to the preferred concept include: a **natural engineered solution** (submerged nearshore stone reef) instead of a breakwater, an **improved adaptive sand management plan**, a **beach restoration plan**, and a **physical structure** (i.e. groyne) connected to the shoreline.



2017 REVISED PREFERRED CONCEPT



1. Adaptive Sand Management

- Refers to the long-term, strategic placement of “new” sand to replicate the natural sediment transport process that was altered over the last 100 years;
- Provides ongoing nourishment of Hanlan’s Beach; and,
- Includes a source of sand that must meet the Ministry of Environment guidelines for open water disposal.

2. Submerged Stone Reef with Spur and Groove Design

- Consists of a submerged rocky reef connected to the shoreline;
- Includes a mix of stone sizes from small to large with the first layer being sand;
- Mimics historic coastline features;
- Protects the shoreline from erosion; and,
- Provides fish habitat by constructing spur and grooves that offer shelter and foraging areas for fish.

3. Beach Restoration

- Designed using the existing sand dune habitats found on the Toronto Islands;
- Includes improvements to existing dune habitat through the planting of native vegetation;
- Provides a recreational beach; and,
- Protects Gibraltar Point from erosion.

4. Groyne

- Refers to a partially submerged structure made of stone; and,
- Helps stabilize the shoreline against easterly wave action and erosion.

THANK YOU

Next Steps

- Please leave your comment sheet with the registration table or provide feedback by **December 1, 2017**.
- The open house materials will be made available on the project website: www.trca.ca/gp
- All comments will be reviewed and changes will be made as required.
- The Gibraltar Point Erosion Control Project EA Addendum will be filed with the Ontario Ministry of the Environment and Climate Change and made available for a 15 day public review.

Mail to:

Meg St John, Project Manager
Toronto and Region Conservation
Authority
101 Exchange Avenue, Vaughan ON
416-661-6600 ext. 5621
mstjohn@trca.on.ca





Gibraltar Point Erosion Control Project Addendum

Public Information Centre

November 16th, 2017 - 5:30 to 8:30 pm
Harbourfront Centre – Brigantine Room
235 Queens Quay West



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The Development of the Toronto Islands

- Historic sediment sources included the Don River and the Scarborough Bluffs
- Today, the Islands are mostly cut off from these sediment sources, resulting in drastic changes to their development

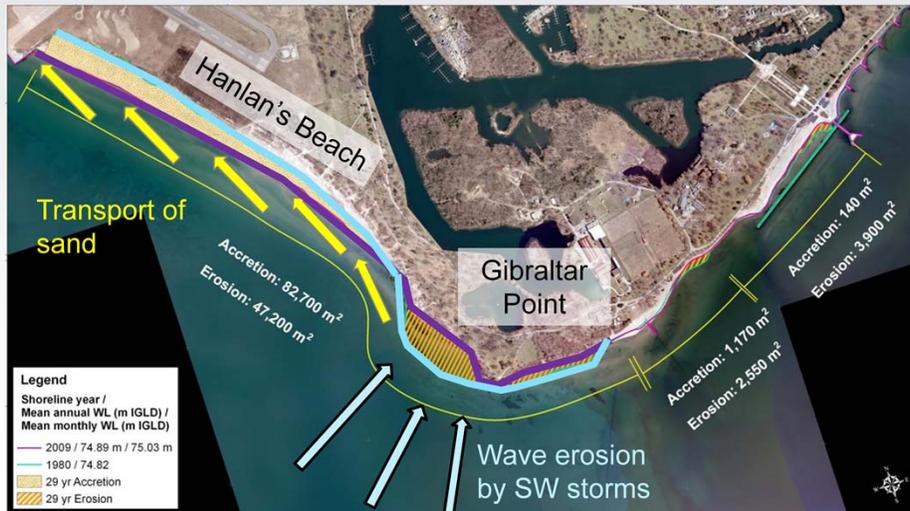


- The islands were originally a 9 kilometer (5.6 mi) long peninsula or sand spit extending from the mainland. The islands are composed of alluvial deposits from the erosion of the Scarborough Bluffs.
- By 1850 these sand bars had grown by 12 ha. A severe storm in April of 1858 separated the peninsula from the mainland forming what is now known as the Eastern Gap.
- The channel was widened and made permanent following the 1858 storm. The channel became known as the *Eastern Gap*. The peninsula to the west became known as the Toronto Islands.
- In recent decades, the creation of the Leslie Street Spit as well as other shoreline alterations have resulted in a significant change in the historic transport processes responsible for the creation and maintenance of the Island.



Shoreline Erosion – Process & Change Over Time

Absent a replenishment source, sediment is eroded from Gibraltar Point and transported north to Hanlan's Beach and into the Western Gap.



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- Strong winds, such as those from the south west, generate significant wave action that buffet Gibraltar Point and result in erosion of the shoreline
- This eroded material is pulled away from the shoreline via cross-shore transport, or undertow, and then transported northwestward where they are deposited in and around Hanlan's Beach.



Impacts of Erosion at Gibraltar Point

Recreation



Aquatic Habitat



Terrestrial Habitat



Infrastructure

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- The effects of erosion have widespread implications for the island.
- Recreationally, the south western shore of the islands are home to some of Toronto's cleanest beaches, which rely on erosion at Gibraltar Point to stay nourished with sand. Changes at Gibraltar point thus will have direct impacts on Hanlan's Beach.
- Some of Lake Ontario's most diverse and productive fish habitat are found within the Islands inner ponds. If erosion is allowed to continue unabated, these ponds may become exposed directly to Lake Ontario in several decades, which will have profound changes on these fish communities.
- The Islands southwestern shore contains rare and sensitive dune beach habitats, many of which have been lost as a consequence of erosion at Gibraltar Point
- Erosion presents unique challenges to planning and infrastructure on the island, which in some cases presents risks to public safety.



Project Purpose & Objective

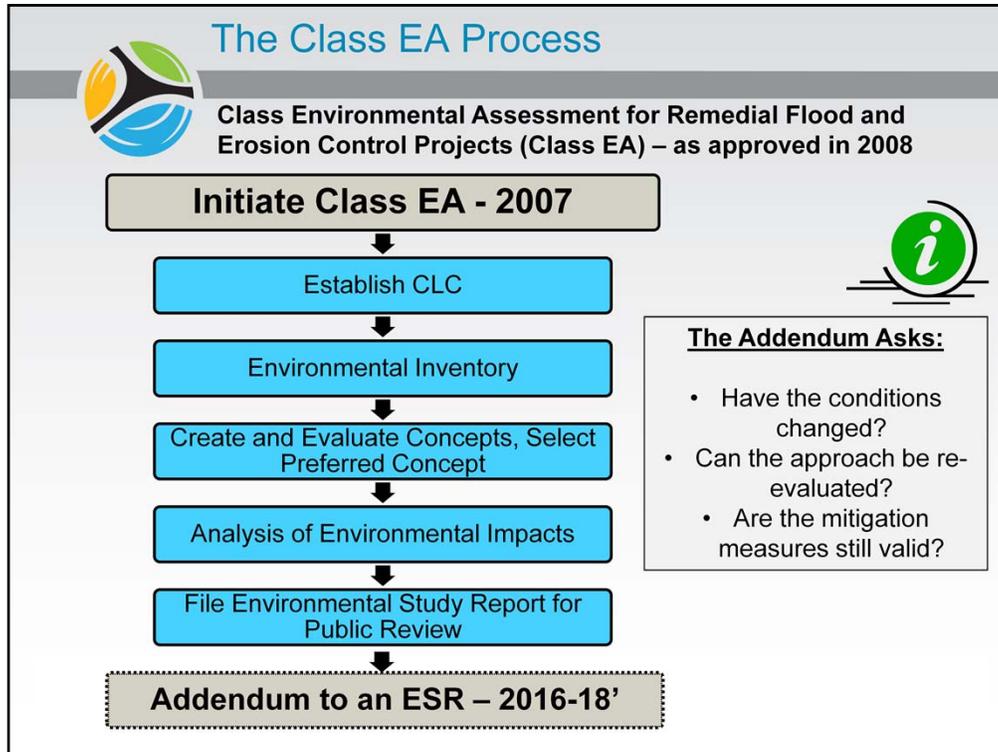
Develop a long-term, sustainable solution to erosion of Toronto Islands, in the area of Gibraltar Point to:

- Protect infrastructure and public safety; and
- Preserve and enhance existing aquatic and terrestrial habitat

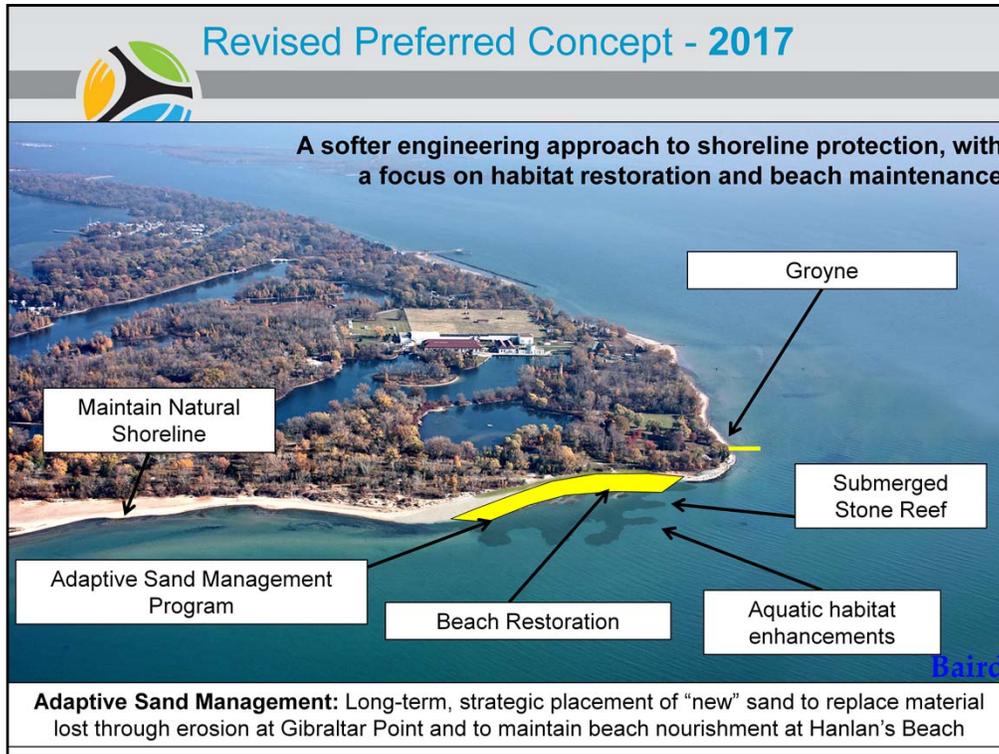


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- Remedial Flood and Erosion Control Projects refer to those projects undertaken by Conservation Authorities, which are required to protect human life and property, in previously developed areas, from an impending flood or erosion problem. In accordance with the Class EA planning process, a full range of alternatives must be developed, including both traditional and innovative approaches. The type and range of alternatives developed vary by project as they are based on the nature, cause and extent of the problem and must be tailored to the individual characteristics of each site.
- A range of solutions were developed which recognized these processes and the limitations associated with each. To assist with the evaluation of the alternative options and provide input into the planning and design process, a Community Liaison Committee or CLC was formed. Composed of technical staff, stakeholders, provincial agency staff, community activists and interested members of the public, the CLC became an integral part of the Class EA process.
- Through a series of meetings, a range of alternative options were considered. In addition to providing feedback on technical and economic considerations, the members provided insight into the importance of preserving the adjacent sand dunes, woodlots and beaches. It became evident early in the process that any solution implemented would have to protect more than just the washroom building at Gibraltar Point; there is a need to preserve the landform of the Island itself.
- The Class EA was approved in 2008 and is now undergoing an addendum process, required if 5 or more years have elapsed since the approval of an EA and initiation of construction.



- Through the ongoing addendum process, which was officially initiated in 2016, a revised preferred concept was developed
- The revised preferred concept can be thought of as a softer, more naturalized approach to shoreline protection, that still maintains both the sand management program and the need for a physical structure as outlined in the original Class EA.
- With respect to the physical structure, the revised preferred concept will consist of a submerged stone reef connected to the shore.
- This reef structure will be submerged under regular lake level conditions and will improve aquatic habitat at Gibraltar Point.
- As identified in the original Class EA, the concept will also consist of a sand management program, where sand will be placed strategically to repair Gibraltar Point and nourish Hanlan’s Beach over the long term.



Restoration at Gibraltar Point

- Revised preferred concept combined with a dune beach restoration plan
- Design will mimic existing dune habitats on Toronto Island
- Will provide recreational and ecosystem benefits, as well as enhance shoreline protection



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- An important component of the Gibraltar Point Erosion Control Project is the Beach Dune Restoration component
- The Plan will aim to replace some of the rare and sensitive dune beach habitats lost due to erosion over the last few decades, providing ecosystem enhancements and improving recreational opportunities on the Island.



- While still at a conceptual level of design, Figure A provides an example of what a beach dune restoration area may look like at maturity.
- The dune beach habitat will be initially sculpted into ridges and swales typical of dune habitats (Figure B) and then planted with native dune vegetation (Figure C). The dunes themselves will be left to evolve naturally through wind and wave action, while some ongoing maintenance will likely be applied to the vegetation component in order to ensure successful establishment and minimize invasives.
- A large portion of the restoration area will consist of dedicated recreational beach space.



Benefits of the Stone Reef and Dune Beach Concept

- **Natural Design**: Simulates natural features and creates and enhances aquatic habitats as part of the remedial action.
- **Softer Approach**: Largest artificial shoal built along the Toronto Waterfront, in the areas cleanest waters.
- **Focus on Restoration**: Rebuilds terrestrial habitat and recreational space lost through decades of erosion at the Point.
- **Multi-purpose**: Provides shoreline protection to Gibraltar Point while ensuring the continued maintenance of Hanlan's Beach.
- **Simplified Construction**: A quicker-to-build solution that will provide much needed erosion protection sooner and in a more cost effective way.



**Comments? Please complete and bring your
comment form to the registration table, or send us
your comments by December 1, 2017 to:**

Meg St John, Project Manager
Toronto and Region Conservation Authority
101 Exchange Avenue, Vaughan ON
416-661-660 ext. 5621
mstjohn@trca.on.ca

For more information, visit: www.trca.ca/gp

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Meeting Minutes

The public meeting held on November 16, 2017 by the Toronto and Region Conservation Authority (TRCA) and the City of Toronto, included one hour of display panels for review by members of the public, three presentations delivered by representatives of the TRCA, the City of Toronto and Environment Canada and a question and answer period following the presentations. Approximately 40 participants attended the public meeting. **Nancy Gaffney** from the TRCA facilitated the meeting and welcomed everyone. Members of the public were informed of the format of the meeting including how the Gibraltar Point Erosion Control Project EA Addendum is separate from the presentation on Lake Ontario water levels and their impact on the Toronto Islands.

A Question and Answer session immediately followed each presentation and the public had an opportunity to ask questions and provide feedback about the information presented. The following presentations were delivered:

The first presentation was delivered by **Corey Wells**, Project Coordinator with the Project Management Office at TRCA and covered the proposed addendum to the Gibraltar Point Erosion Control Project Environmental Assessment. A question and answer period followed immediately after the Gibraltar Point Erosion Control presentation, and technical staff from the TRCA, and Baird Consulting were available to answer questions. Participants of the public meeting were reminded that additional comments can be submitted using the handout provided and that comments can be provided at the end of the meeting or mailed to the TRCA by December 1, 2017.

The second presentation was delivered by **Wendy Leger and Mike Shantz** from Environment Canada on the topic of the Lake Ontario water levels and Toronto Island flooding portion of our evening. Mike and Wendy are Coordinators/Officers of Environmental Programs, Meteorological Service of Canada and are from Environment and Climate Change Canada. There were three (3) presentations on this topic, after which questions were taken from members of the public. The next presentation focused on the Flood Risk Assessment for Toronto Islands and was delivered by **Rehana Rajabali**, Manager, Flood Risk Assessment from TRCA. The final presentation on this topic and final presentation of the evening was delivered by **James Dann**, Waterfront Parks Manager from the City of Toronto and **Gord MacPherson**, Associate Director with TRCA's Restoration and Infrastructure Division.

Following the three presentations on Lake Ontario water levels on the Toronto Islands, members of the public engaged in a question and answer period facilitated by Nancy Gaffney. Staff from the City of Toronto, the Toronto and Region Conservation Authority (TRCA), Environment Canada (EC), and the technical consulting team (Baird), were available to answer questions.

Questions and Answers after 1st presentation on Gibraltar Point Erosion Control Project EA Addendum (6:30 pm):

Q: What is the source of materials for this project?

A: The Gibraltar Point Erosion Control Addendum process is still identifying suitable sources of sediment and materials for the project.

Q: Is the revised preferred concept the best approach? Is the revised preferred concept based on price alone?

A: The revised preferred alternative is based on a number of benefits and not just cost. The revised preferred concept includes natural design enhancements that will fundamentally benefit terrestrial and aquatic habitat. From a shoreline management perspective a hybrid option that balances both an engineering approach and system for natural enhancements is the revised preferred option for this project. The revised preferred concept also happens to be less costly than the 2008 concept.

Q: What is the quality of sand and will it be contaminated if it is taken from the Western Gap. Sand located at the mouth of the Don is very contaminated so it is possible that sand from the Western Gap is contaminated as well. Should sand near the study area (Western Gap) be used for recreational use if it is contaminated?

A: The sand from the Don Mouth is different from sand found in the Western Gap. Any source of sediment used for the Gibraltar Point Erosion Sand Management Plan will be analyzed and is required to meet specific Provincial guidelines set by the Ministry of Environment and Climate Change (MOECC).

Q: Was the plan from 2008 not robust to meet the needs of flooding on the Island? How will this plan manage the future Island flooding?

A: Gibraltar point Erosion control project focuses on erosion control and sand management and is not a flood mitigation project. The Gibraltar Point Erosion Control Project does not have the capacity to mitigate flooding. Through its design however, it will reduce impacts to Gibraltar Point and Hanlan's Beach that would occur as a result of flooding. The primary issue related to flood protection will be addressed in a later presentation and with separate studies lead by the City of Toronto.

Q: When will this project happen?

A: The details of construction are still being prepared and will be determined soon. The proposed start of construction is spring of 2018.

Q: Will there be an ongoing budget for maintenance? If there is another flood in the coming year, how will this impact the Gibraltar Point Project?

A: Maintenance and construction monitoring related to the Gibraltar Point Erosion Control project will be ongoing throughout the project implementation phase and is based on funding provided over a 2-3

year period. In addition to construction monitoring, other separate programs funded by the City, such as the TRCA monitoring program, will continue annually. The erosion monitoring program happens every year and will be used to gauge how to maintain priorities of the Island and the Lake Ontario shoreline/waterfront as a whole. The sand management plan is also adaptive and will include monitoring between now and the start of construction. The program will be tweaked and monitored during the course of construction to deal with ongoing changes in weather.

Q: What other projects will be included in this project.

A: The TRCA works with the City to implement an annual erosion control program mentioned above.

Q: How much will this project cost? Where is funding coming from?

A: The Gibraltar Point Erosion Control Project is 13 million dollars which includes the cost of construction and is a dedicated program. Any other areas of the Toronto waterfront that require flood or erosion mitigation are separate from the Gibraltar Point Project and are managed based on priority. Priorities vary every year and change with increased inclement weather events. When there is a big storm, the TRCA must work with the City to be proactive and prioritize mitigation efforts. In general, the City of Toronto has a 10 year forecast and all funding decisions require Council approval. Every 5 or 6 years the program is reviewed.

Q: With respect to the submerged reef that forms a barrier at Gibraltar Point, how will this be identified as a navigational hazard?

A: The current design shows a 60 cm below average lake level reef. This reef will require permitting and approval under the Navigable Water's Act. TRCA will work with Transport Canada to meet and acquire the applicable permits.

Q: Why is most of the work west or northwest of GP? There has been a lot of erosion of the beach in front of the Gibraltar Centre for the Arts and near infrastructure (i.e water intake pipes) which is of concern.

A: The objective of this project is to focus on protecting Gibraltar point and maintain Hanlan's beach. The Groyne structure will be built to mitigate and help build out the beach in the area near the Gibraltar Centre for the Arts. Money has also been set aside to understand the associated risks and priorities for the Islands which is separate and not part of the GP EA Addendum. Technical studies (Baird) have confirmed that water intake pipes (i.e. cooling water) will not be impacted by the GP EA Addendum project. Modeling has been completed to confirm impacts.

Q: As part of the GP project will there be documentation from beginning to end? Is there any way to document the shoreline on how it is today and how will it look later.

A: Surveys are being taken this fall and used to guide the final design of the project. TRCA will show the shoreline configuration (bathymetric surveys) and use additional imagery in the EA Report to show the progression of the different conditions of Gibraltar point over time. A monitoring program will also be implemented to assess the way the shoreline will function. The maintenance and

monitoring program will keep an eye on the reef structure to understand how it performs. TRCA also has drone photography.

Q: In the worst case if there is another storm, how effective is this plan?

A: (Baird) Flooding and erosion are two issues. Flooding is caused by the rise in lake levels and can only be addressed by building a barrier – which is not the focus of the GP Erosion Project but is part of other City initiatives. Although the nearshore reef does not address flooding, it will minimize impacts associated with wave action and high water levels and protect this area of the Island from erosion. Over time, although the reef and shoreline design will reduce the wave action erosion will still occur and thus, a sand management plan is proposed.

Questions and Answers after the 2nd round of presentation – a total of three presentations on the Lake Ontario water levels and their impact on the Toronto Islands (7:30 p.m.):

Q: In Spring (April) most of the damage seen was done during winter storms. Long range predictions from EC shows a longer warmer summer. Is there any temporary system in place (jersey barrier used on highways) to prevent storms from rolling in and whipping out more of the exposed shoreline.

Q: Artscape Gibraltar Point and Water Filtration Plant did not appear in this area until later. By then AGP was evacuated and the sports field was flooded. Will this be handled differently in future years? Did this area not show up as a high risk area? Risk was around people property only and natural areas....how is risk considered? How are assets considered?

A: (Rehana) The Toronto Island Response was not under a risk assessment, it was mapping on the fly. The TRCA looked only at where the sandbags would be effective. **(Warren)** the City mainly deployed to the residential areas focusing on people, property then assets as a priority. In 2017 the first emergency areas were in the residential community. In future the City is looking at putting a permanent sump pump in this location. The City is keeping metre bags in place until they determine the best course of action.

Q: What can different groups and communities do to get more funding and attention to support the TRCA and the City?

A: the Chief Resiliency Officer has been hired to look at resiliency at a much broader scale across the City. As citizens there needs to be a group of Island Stewards to support plantings, wildflowers. The City will be engaging the Islanders and the downtown community to understand the plan, the City is still developing a plan of action. The hybrid option of engineered and natural solutions is important for mitigating future impacts as a result of lake levels. Rehana – mentioned that emergency preparedness is also a personal plan and how it is important to know about the...

Q: Why was there no help at Gibraltar Point. The residents felt abandoned.

A: The priority response was the community first and residents living on the Island. The TRCA and the City were there as fast as they could. Warren – the road leading from the fire hall down to

Gibraltar Point Centre for the Arts had 45 cm of water on it. Anyone who was not a permanent resident needed to be shut down first to mitigate risks to people who lived on the island. It was an emergency services decision ultimately because fire fighters could not get to those areas or roads that were flooded.

Comment: there was an emergency prep committee and that they are preparing a socio-economic impacts report as a result of the Island Flooding. This is forthcoming.

Q: We are doing the GP EA, but how can we mitigate other parts of the Island?

A: The intent of the Risk Assessment Project will identify areas of risk and determine the locations where protection can be prioritized.

Q: How do you prevent future flooding on the Toronto Island and what is the long-range plan? Does it include building up the Island?

A: The City and TRCA are studying risk and analyzing next steps (some ideas include raising the road) including short term priorities, low point mitigation, and immediate solutions such as sand bagging. While the City determines a long-term solution with TRCA immediate steps are being explored.

Q: With respect to the International Joint Commission 2014 flows – how much higher are flows this year? Given the context of Climate Change, have we learned anything for future forecasts? What are we doing with future high water levels?

A: (Env Canada) The regulation plan in 2014 would not have been able to deal with the high upstream and downstream water levels. Environment Canada did the best they could with managing flooding. There is no target level in the regulation plan because it aims to be within the historic range.

Q: What were the lessons learned about the way Island residents were communicated with?

A: TRCA has started to do a full analysis of the damages that has been done to the Island including the processes and procedures followed. There will be additional opportunities to engage the residents of Toronto as a whole on the flooding issue. The City and the TRCA will continue to obtain lists of island residents and be strategic in future communications.

Re: Notice of Intent - Gibraltar Point Erosion Control Project 

Caitlin Rochon to: 

09/29/2016 08:46 AM

Good morning 

I have ensured that your contact information is on our distribution list for this project. You will be notified by email of any project updates.

Kind regards,
Caitlin

Caitlin Rochon | Project Coordinator, Project Management Office
Toronto and Region Conservation Authority

Mailing Address: 5 Shoreham Drive, Downsview, ON, M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON, L4K 5R6

Office: 416.661.6600 ext 5249 | **Cell:** 647.537.4185 | **✉** crochon@trca.on.ca | **www.trca.ca**

H S

Hello Caitlin, Thank you for sending along this e...

09/28/2016 10:14:40 AM

From: H S 
To: Caitlin Rochon <CRochon@trca.on.ca>,
Date: 09/28/2016 10:14 AM
Subject: Re: Notice of Intent - Gibraltar Point Erosion Control Project

Hello Caitlin,

Thank you for sending along this email and information on the beach erosion project. I do apologize for my very late reply as I work freelance and have been extremely busy this past couple of months.

I have had the pleasure to meet Ethan Griesbach to talk about what has happened over the past several years to that part of the island and the beach area. He was very informative and I was able to give him more of a history on the island and that particular part of the beach.

I did mention to him that I have taken photos over the years to document the loss of land at that end of the island. I am currently going through my files to see if I can find them all.

I would be interested to hear more about this project moving forward so if there is any way I can be of help or to know more please feel free to contact me.

Thank you.

Best Regards,





From: Caitlin Rochon <CRochon@trca.on.ca>

Sent: August 18, 2016 10:24:33 AM

Subject: Notice of Intent - Gibraltar Point Erosion Control Project

Good morning,

The following Notice of Intent for the Gibraltar Point Erosion Control Project may be of interest to you.

Please see the attached letter.

Caitlin Rochon | Project Coordinator, Project Management Office | Restoration & Infrastructure Division
Toronto and Region Conservation Authority | Office Location & Courier Address: 101 Exchange
Avenue, Vaughan, Ontario L4K 5R6 | Mailing Address: 5 Shoreham Drive, Toronto, Ontario M3N 1S4 |
☎ 416 661-6600 ext. 5249 | 📞 647-537-4185 | ✉ crochon@trca.on.ca

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Thank you."



RE: Gibraltar Point
Warren Hoselton
to:

[REDACTED]

10/31/2017 08:08 AM

Cc:

"Violetta Savage", "Meg St John", "Corey Wells", James Dann, [REDACTED]

[REDACTED]

From: Warren Hoselton <Warren.Hoselton@toronto.ca> Sort List...

To: [REDACTED]

Cc: "Violetta Savage" <vtkaczuk@trca.on.ca>, "Meg St John" <mstjohn@trca.on.ca>, "Corey Wells" <cwells@trca.on.ca>, James Dann <James.Dann@toronto.ca>, Richard Ubbens <Richard.Ubbens@toronto.ca>, "Patricia Landry" <Patricia.Landry@toronto.ca>

1 Attachment



Flyer Gibraltar Point Nov 16.pdf

Hi [REDACTED]

Thanks for taking the time to send this thoughtful email about a tiny corner of the Island that you are so passionate about.

I am sending your email on to my colleagues at the Toronto Region Conservation Authority team who are overseeing the design and construction of the Gibraltar Point Restoration Project.

You have an incredible insight as to how fragile this area is to the Monarch population and I know that your words of caution will be heeded. In fact, I am hoping that this phenomenon will be further enhanced through this restoration project.

There is a public meeting on November 16 th at Harbourfront Centre (see attached flyer) if you can make it.

Thank you for reaching out with this valuable information and thanks to the little bird that has connected us!

Best regards from the park side,

Warren Hoselton

Acting General Supervisor

City of Toronto

Toronto Island Park

Marine Services

416 392 8196



From: [REDACTED]
Sent: October-30-17 4:23 PM
To: Warren Hoselton <Warren.Hoselton@toronto.ca>
Subject: Gibraltar Point

Hello, Mr. Hoselton.

A little bird told me you might be the person responsible for planning "beautification" of Gibraltar Point.

In 2000 I began going there to watch Monarch butterflies take off to the southwest. I sat in the "Giant's Fire Pit" until an extraordinary storm demolished it and almost took out the washroom bldg. as well. I've kept hoping whoever controls the supply of rocks and concrete chunks will add at least ONE that's easy to access and level to sit on, because when I'm there on departure days I want to sit for 3-4 hours. Next year I'll be 81, but it's a form of entertainment not to be missed, believe me.

In the last few years Monarch numbers crashed.

This year, however, they appeared in phenomenal numbers. Watching them leave on two days in September, I thought that whoever makes decisions about tidying up Gibraltar Point will probably do computer-generated designing without knowing how the butterflies actually use the area.

During departure days they spend a night crowded on to every twig and branch of the willow shrubs and trees closest to the Point. No computer -- or gardener, for that matter -- would consider that vegetation attractive, but if you stand well back in the park you see that it forms a gateway. In the morning Monarchs wait until wind conditions are just right, then begin flowing out the gate, find thermals just offshore, and vanish into the distance.

The willows are an integral part of the butterflies' preparation for a marathon flight: bark and leaves provide mineral snacks until the final moment before departure, which occurs after the breezes sifted by the leaves are interpreted as favourable.

I sincerely hope humans won't turn the parkland at Gibraltar Point into yet another promenade for stick people taking Selfies, at the expense of a fragile and unique natural phenomenon.

My career was spent planning and realizing some rather large PR projects. I can imagine an "Official Opening of Newly Restored Gibraltar Point" with ribbon-cutting, self-congratulatory babble, booze for the VIPs ... ARRRRRGGGGH! Too horrible to contemplate.

Sincerely,

[REDACTED]

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Re: gibraltar point 
Meg St John to: [REDACTED]

11/17/2017 03:52 PM

Hi [REDACTED]

Thank you for your feedback. We took some samples this fall to find an appropriate sand source and are hoping to be able to fill that knowledge gap as soon as possible.

Please let me know if you have any other questions or comments.

Cheers,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority
Phone: 416-661-6600 ext 5621 Cell: 437-771-9873
mstjohn@trca.on.ca | www.trca.on.ca
Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4
Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

[REDACTED] Hi Meg: The meeting last night was well organiz... 11/17/2017 03:16:10 PM

From: [REDACTED]
To: Meg St John <mstjohn@trca.on.ca>
Date: 11/17/2017 03:16 PM
Subject: gibraltar point

Hi Meg:

The meeting last night was well organized and the displays were clear, as was the presentation by Corey. There was ample opportunity to discuss details of the proposed scheme, insofar detail was available. For some information this was not (yet) the case. In particular, the source of the sand is still unknown. This is a major flaw in the project, as proposed. Since the source is not known, neither can the cost of moving and placing the sand be known.

The cost of the project - so far - consist of this:

Submerged stone reef and groyne construction	12 million dollars
Sand placement; source, quantity and method	unknown
Monitoring beach restoration	assumed in annual budgets

I believe that a best-practice EIA requires a description and assessment of a comparable project in Ontario, or beyond. Without it, the question of whether the scheme will work can only be answered theoretically. That may not suffice.

Regards,
[REDACTED]

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Re: Fw: gibraltar pnt meeting 
Meg St John to: [REDACTED]

11/08/2017 01:38 PM

Hi [REDACTED]

We are still working on finalizing the revised preferred concept. There will be a lot of time at the open house for questions and discussion. I noticed that in the below correspondence you mentioned that the open house is November 17th - the open house is November 16th.

Looking forward to seeing you then.

Cheers,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

[REDACTED] Thank you for the gibraltar point report. It makes... 11/08/2017 11:21:58 AM

From: [REDACTED]
To: Meg St John <mstjohn@trca.on.ca>
Date: 11/08/2017 11:21 AM
Subject: Fw: gibraltar pnt meeting

Thank you for the gibraltar point report. It makes for interesting reading but I'm sure that recent nature events have thrown new light on the situation. I understand that a new concept will be proposed at the public meeting next thursday and would appreciate receiving a report on it before the meeting to acquaint myself with some of the technical details. Many thanks,

[REDACTED]

On Friday, November 3, 2017 2:53 PM, [REDACTED] wrote:

Hi [REDACTED].

This concept report is already ten years old but will show you the engineering options for Gibraltar Point. In light of what happened this year, i have my doubts that the "sand management" solution is the best one. What do you think ?

On the 17th there will be a public meeting at the Harbourfront Brigantine Rm where we can voice our opinions. Of course the sand management concept may already have been discarded in favour of a "hard" solution.

[REDACTED]

On Thursday, November 2, 2017 2:39 PM, Meg St John <mstjohn@trca.on.ca> wrote:

Hi [REDACTED]

Are you referring to the 'preferred solution' from the Environmental Assessment(EA)? The EA came to the conclusion that a sand management program with a potential structure was the preferred solution, and that additional coastal modelling would help to inform the structure. The final EA from 2008 can be found here: <https://trca.ca/wp-content/uploads/2016/04/Gibraltar-Point-ESR-FINAL-February-2008.pdf>

Happy to chat as well if that will help to clarify.

Best,
Meg

Meg St John | Project Manager, Project Management Office

Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

From: [REDACTED]
To: "mstjohn@TRCA.on.ca" <mstjohn@TRCA.on.ca>
Date: 11/02/2017 09:48 AM
Subject: gibraltar pnt meeting

In prep for this meeting can you email me a copy of the original project proposal for stabilizing the shore ?

Many thanks.

[REDACTED]

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Re: gibraltar point proposal 
Corey Wells to: [REDACTED]
Cc: Meg St John, Christine Furtado

11/30/2017 11:58 AM

Good morning [REDACTED],

Thanks for touching base and providing further incite to the Gibraltar Point Project. I enjoyed our conversation at the November 16th public meeting and you certainly raise some good points.

Indeed, Ward's Beach did experience some significant loss following the expansion of the Eastern Gap. However, the important distinction between what happened to Ward's Beach and the dynamics of sediment movement at Gibraltar Point once constructed is that Ward's was unprotected. What I mean by unprotected in this context is that there were no mechanisms put in place to help dampen the erosive power of the wind and waves in that area following beach expansion. So, despite the placement of additional material at Ward's Beach, erosion was allowed to continue unabated, thus leading to the significant loss of land that you had observed.

We've learned a lot since then and understand that simply placing sand along the shoreline at Gibraltar Point will not suffice. That is why the Gibraltar Point Project consists of two main components; (1) a sand management program that will aim to build-out the beach that has been lost over the last few decades at the Point, while ensuring Hanlan's beach continues to receive the sand it needs over the long-term and; (2) a physical structure to reduce that rate of erosion at the Point. The physical component, in this case the underwater stone reef structure that was highlighted at the public meeting, is the important distinction here. With this structure in place, the shoreline will be protected from wind and wave action in a way that the Ward's Beach expansion was not, and will work to dramatically reduce erosion at Gibraltar Point.

I have included my colleagues Meg St. John and Christine Furtado on this email, as they will be the primary points of contact for this project moving forward. If you have any further questions, or if any of the above requires clarification, they will be happy to discuss them with you.

In in the meantime, we will be sure to keep you and the rest of the Island Community informed as we approach the completion of the addendum process currently underway. You can visit our website below at any time to keep up to date as well.

[Toronto and Region Conservation Authority - Gibraltar Point Erosion Control Project Website](#)

I would like to thank you once more for attending the public session and for expressing your comments and concerns to us.

Sincerely,

-Corey Wells

Corey Wells MSc. | Project Coordinator, Special Projects | Project Management Office | Restoration & Infrastructure | [Toronto and Region Conservation Authority](#) |
☎ Office: 416-661-6600 ext. 5233 | ☎ Cell: 437-772-3054 | ✉ cwells@trca.on.ca |

[REDACTED] Hi Corey: We spoke at the open house. 11/27/2017 01:26:10 PM

From: [REDACTED]
To: "cwells@trca.on.ca" <cwells@trca.on.ca>
Date: 11/27/2017 01:26 PM
Subject: gibraltar point proposal

Hi Corey:

We spoke at the open house.

You may recall I mentioned the beach created with soil from the widened Eastern Gap. This happened sometime in the seventies.. The new beach (an extension to the existing Wards beach) had mostly disappeared in about five years. The Toronto Harbour Commission or it's successor organisation will have the details of this experience on file. It would be instructive to check out the engineering dimensions of this project.

The widening of the Eastern Gap was a success. The new beach was a failure.

With this historical local precedent in mind, I have serious reservations about the new concept plan for Hanlans point.

With best wishes,



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Re: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

to:

Meg St John

10/31/2017 09:02 AM

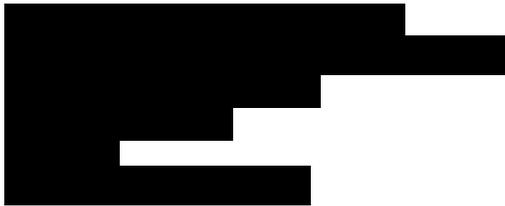
Hide Details

To: Meg St John <mstjohn@trca.on.ca>

History: This message has been replied to.

Thanks Meg

I will have a look when I get back. Maybe I could come in one day to discuss.



From: Meg St John

Sent: Tuesday, October 31, 9:00 AM

Subject: Re: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

To:

Hi

I'm sorry you are unable to attend. We will be posting the materials from the meeting on the website, and please feel free to reach out at any point if you'd like to chat.

Cheers,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

From:

To: Meg St John <mstjohn@trca.on.ca>

Date: 10/30/2017 04:50 PM

Subject: Re: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

Hi Meg

I would really like to attend this Information Centre, but I will be in India until November 17.



From: Meg St John <mstjohn@trca.on.ca>

Sent: October 30, 2017 4:11 PM

Subject: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

Good afternoon,

You are invited to a Public Information Centre hosted by Toronto and Region Conservation Authority (TRCA) and the City of Toronto on **November 16**, from **5:30pm to 8:30pm**, at the **Harbourfront Centre**, for the Gibraltar Point Erosion Control Project, Class Environmental Assessment Addendum. The meeting will also include information regarding the recent flooding on the Toronto Islands.

Please see the attached flyer for additional information, and to distribute as you would like.

Please let me know if you have any questions.

Best,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

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Re: Gibraltar Point Erosion Control project 
Meg St John to: [REDACTED]

11/08/2017 09:07 AM

Hi [REDACTED],

It may be easier to have a chat as I believe that the section of the beach that you are referring to is exactly the section that will be protected and restored and I just want to be sure that I'm not misunderstanding you. Please feel free to give me a call at your convenience at the number below. Alternatively I'm happy to chat at the November 16th meeting. That's what we are there for!

Cheers,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

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Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

[REDACTED] Hi Meg, I was just reviewing the information abo... 11/07/2017 06:11:11 PM

From: [REDACTED]
To: <mstjohn@trca.on.ca>
Date: 11/07/2017 06:11 PM
Subject: Gibraltar Point Erosion Control project

Hi Meg,

I was just reviewing the information about the project on the TRCA website in advance of the public meeting, and I was wondering if you could tell me why the original study/project area hasn't been expanded eastward to include the Gibraltar Point beach that is being so horribly eroded that not only is the beach disappearing, but the trees along the shoreline are being lost, the baseball diamond turned into a lake this spring, and rare ecosystems are being destroyed. Park land is a pretty rare commodity in downtown Toronto, as you know, and the rate at which we lose park space via Island erosion is shocking.

I noticed that in the area I'm referring to the TRCA recently put in some markers to monitor the shoreline erosion and tagged some trees, but monitoring isn't what's required here.

Anyway, I thought maybe you could tell me what's going on with this in advance of the meeting so that I won't be tempted to monopolize your time at the actual meeting. If these issues are going to be addressed at the meeting, I'd be happy to wait until then for my questions to be answered.

Thank you,

[REDACTED]

[REDACTED]

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Re: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands 
Meg St John to: 

11/10/2017 09:03 AM

Hi 

This is the information I received from the person who was the project manager at the time of the original EA:

There was no official direction as I recall. We identified that the point was eroding and had done some emergency repairs to protect the washroom building, and recommended that an EA be done.

Although TRCA does not own or maintain the Islands, as the City does not have the expertise to manage EAs of this nature, TRCA recommended managing the project and submitted a request for funding through its capital budget.

As the project was submitted through TRCA's capital budget process, the only references to this project on the City's records would likely be in TRCA's Capital Budget submissions to Council for approval.

Please let me know if you have any further questions.

Cheers,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

 Meg, Thank you very much for the update and I... 11/09/2017 01:09:53 PM

From: 
To: Meg St John <mstjohn@trca.on.ca>
Date: 11/09/2017 01:09 PM
Subject: Re: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

Meg,

Thank you very much for the update and I am looking forward to attending.

I've been looking over the history on this and it appears that the city of Toronto directed the TRCA to undertake this task quite a few years ago. It had expired and now is back on the table. Can you tell me how the city actually directed TRCA to do this? Was there a formal motion or staff report that came forward to start the process?

Any help you can provide is very much appreciated.

Thanks,





From: Meg St John <mstjohn@trca.on.ca>

Sent: 30 October 2017 12:03

Cc: Warren Hoselton

Subject: Gibraltar Point Erosion Control Project and Lake Ontario Impacts to the Toronto Islands

Good afternoon,

We would like to invite you to a public meeting hosted by Toronto and Region Conservation Authority (TRCA) and the City of Toronto on **November 16**, from **5:30pm to 8:30pm**, at the **Harbourfront Centre**, for the Gibraltar Point Erosion Control Project, Class Environmental Assessment Addendum. The meeting will also include information regarding the recent flooding on the Toronto Islands.

Please see the attached flyer for additional information, and to distribute to your members.

Please let me know if you have any questions.

Best,
Meg

Meg St John | Project Manager, Project Management Office

Toronto and Region Conservation Authority

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Re: Gibraltar Point Erosion Control 
Meg St John to: [REDACTED]

11/17/2017 02:11 PM

Hi [REDACTED],

Thank you for attending the meeting last night. We have updated the website to include the presentation with speaking notes, the panels and the handout from the meeting last night - trca.ca/gp The handout is a fillable pdf if folks would like to submit feedback on that, and they can always call or email if they'd prefer.

Thank you for your offer of feedback and information dissemination, we strive to be as engaged with the public as possible and appreciate any assistance we can get with that.

Best,
Meg

Meg St John | Project Manager, Project Management Office
Toronto and Region Conservation Authority

Phone: 416-661-6600 ext 5621 Cell: 437-771-9873

mstjohn@trca.on.ca | www.trca.on.ca

Mailing Address: 5 Shoreham Drive, Downsview, ON M3N 1S4

Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON L4K 5R6

[REDACTED] Thank you for hosting the meeting last night. I wi... 11/17/2017 11:21:59 AM

From: [REDACTED]
To: "mstjohn@trca.on.ca" <mstjohn@trca.on.ca>
Date: 11/17/2017 11:21 AM
Subject: Gibraltar Point Erosion Control

Thank you for hosting the meeting last night. I will send out the survey link to the Island Community. Are you able to send me the slide deck from last night so I can send some info out to people that did not attend.

As the project moves forward, the Stewardship Committee of the Toronto Island Community Association would be happy to be involved, both in feedback and in decimating information to the community.

Thank you

The Stewardship Committee is working with Toronto Parks on their MP plan for the Toronto Island Park.

[REDACTED]

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APPENDIX D

TRCA
Gibraltar Point Erosion Control Project, Addendum
NOTICE OF FILING

NOTICE OF FILING – Gibraltar Point Erosion Control Project

Toronto and Region Conservation Authority

The Toronto and Region Conservation Authority (TRCA) has completed a review of the Environmental Study Report (ESR) regarding the Gibraltar Point Erosion Control Project, located along the southwest shoreline of the Toronto Islands, approximately between Hanlan's Beach and Gibraltar Point, in the City of Toronto. The original ESR for the Gibraltar Point Erosion Control Project was finalized in 2008 under the *Class Environmental Assessment for Remedial Flood and Erosion Control Projects (2002)*.

TRCA is proposing to provide long-term erosion protection of the Toronto Islands at Gibraltar Point. As erosion control measures were not implemented within five years of the approval of the ESR, an addendum under section 6.0 of the Class EA process is required. A review of the ESR was undertaken which resulted in refinements to the preferred alternative design to reflect improvements in ecological design and sustainability. These refinements have been outlined in an Addendum to the 2008 ESR prepared in accordance with the *Class Environmental Assessment for Remedial Flood and Erosion Control Projects (2013)*, approved for projects of this type.

Interested persons are invited to review this addendum document at the TRCA office below. Copies are also available for review at the Fort York Public Library (190 Fort York Blvd, Toronto, ON, M5V 0E6), City Hall Public Library (100 Queen Street West, Toronto, M5H 2N3), and project website (www.trca.ca/gp). You may provide comments to this office, by Thursday April 12th, 2018 in accordance with the Class EA process.

Toronto and Region Conservation Authority

Contact: Meg St John, Project Manager, Project Management Office

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Subject to comments received as a result of this review and the receipt of necessary approvals and funding, the Conservation Authority intends to proceed with the construction of this project. If any individual feels that serious environmental concerns remain unresolved after consulting with Conservation Authority staff, it is their right to request that the project be subject to a Part II Order by the Minister of the Environment. Part II Order requests must be received by the Minister, with a copy to the Conservation Authority, at the following address by Thursday April 12th, 2018:

The Honourable Chris Ballard

Minister of the Environment

135 St. Clair Avenue West, 15th Floor Toronto, Ontario, M4V 1P5

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