Ashbridges Bay Treatment Plant Landform

Presented by: Lisa Turnbull, Sr. Manager **Project Management Services**



Authority

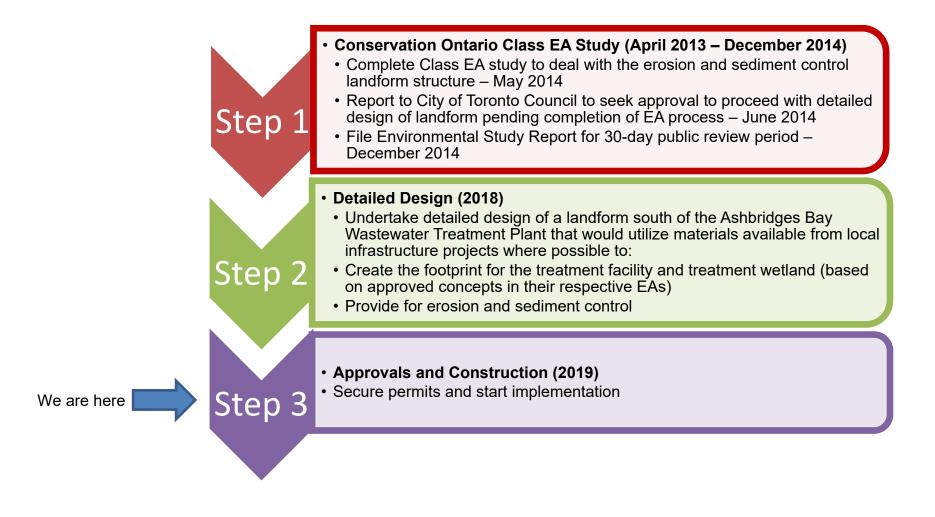
May 14, 2019

Presentation Outline

- Process and Timelines
- Class Environmental Assessment
- Overview of Detailed Design of the Landform
- Detailed Design
- Aquatic Habitat Existing Conditions
- On Site Habitat Compensation and Enhancements
- Examples
- Draft Construction Phasing Plan

The information contained in this presentation is copyright © Toronto and Region Conservation Authority

Process and Timelines



Class EA Objective (2014)

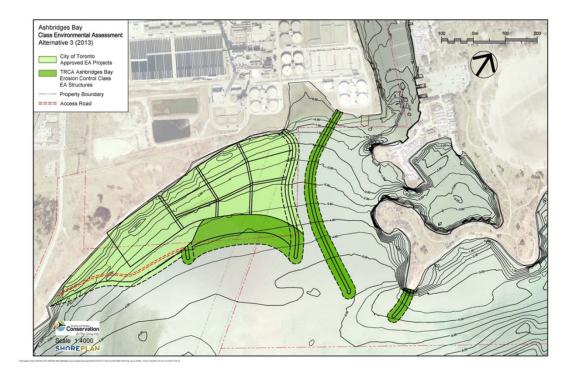
To identify a preferred solution that will mitigate the risk to navigation due to sediment erosion and deposition at the harbour entrance of Ashbridges Bay and Coatsworth Cut while considering the various approved facilities , planning initiatives and current uses in the study area.



Result of the Environmental Assessment

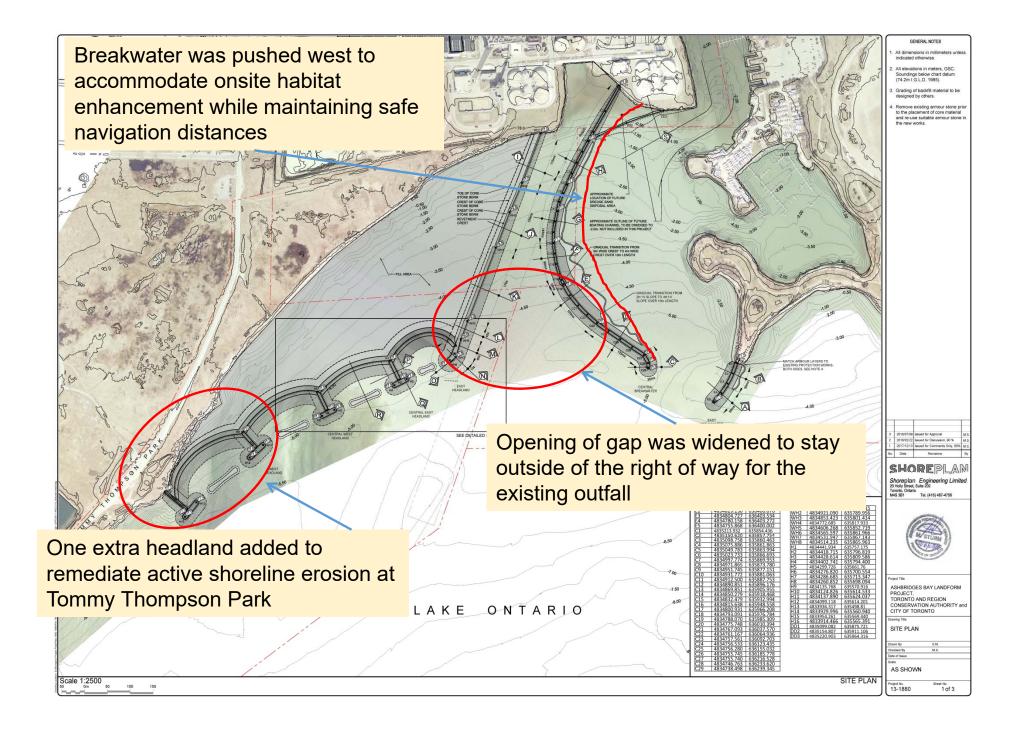
The preferred alternative provided:

- least impacts to water quality in the recreational areas with a potential positive impact on E.coli levels in the recreational boating areas;
- best integration of current Ashbridges Bay Wastewater Treatment Plant operations (sea wall gates) and flexibility with future approved City of Toronto infrastructure; and
- decades of safe navigation without on-going maintenance (dredging).





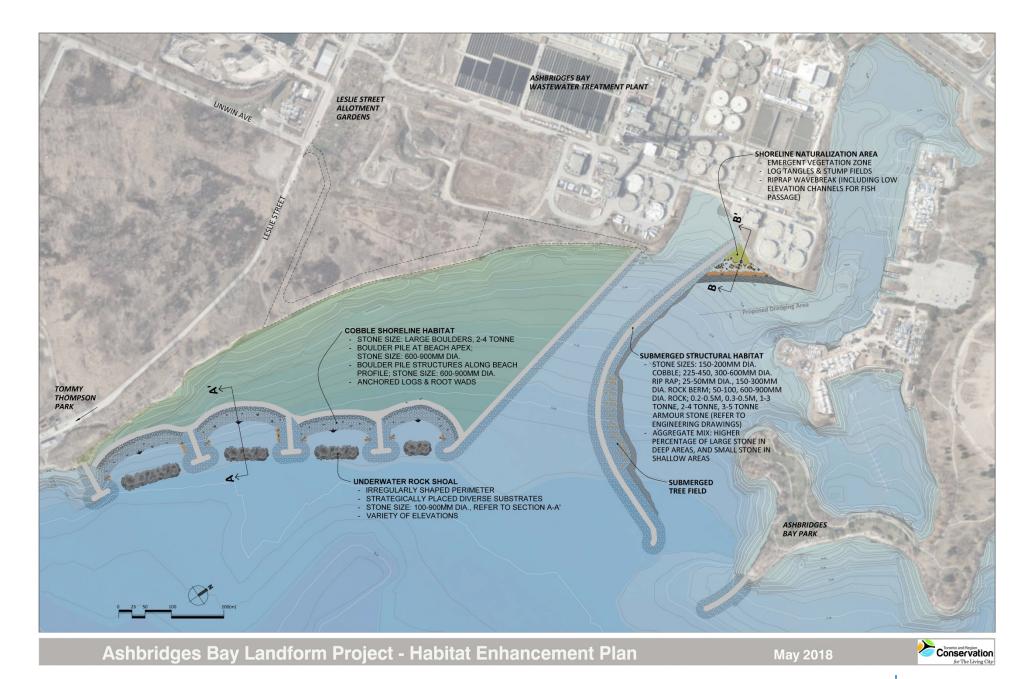
6



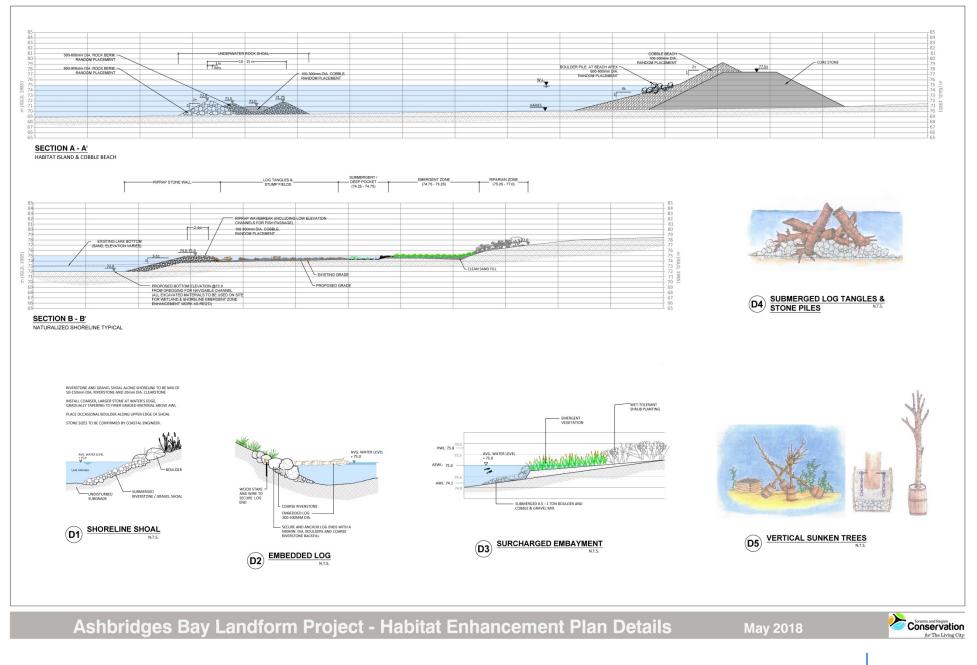
Aquatic Habitat – Existing Conditions



- Historically, Ashbridges Bay was a large marshland complex, originating as a delta formation at the mouth of the Don River.
- Before filling of the Bay began in the early 20th century, the fish community was linked to the Don River watershed.
- Today it is an open coast habitat, characterized by extensive wind and wave action and cold water - generally, fish production in open coast habitats is limited due to wave action, lack of structural habitat and rapidly fluctuating temperatures.
- Sheltered embayments exist at the Ashbridges Bay Yacht Club basin and Coatsworth Cut - In contrast to the open coast environment, sheltered embayment habitat is characterized by a lack of intense wave action, a substantial amount of riparian and aquatic vegetation, shallow water depths and warm to cool water temperatures.



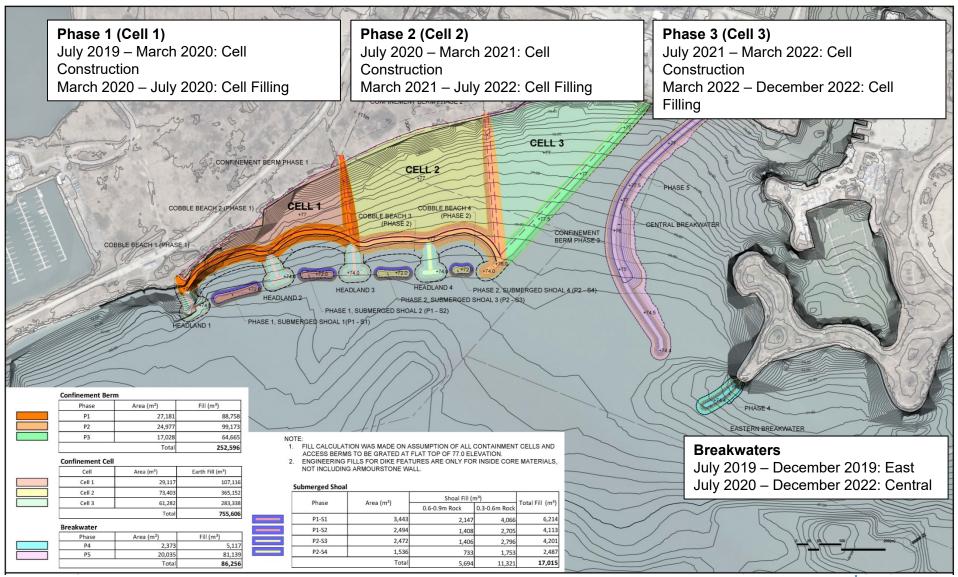
9



Breakwater and Shoreline Examples

Port Credit (below) Burloak Waterfront Park, Burlington (both at left)

Ashbridges Bay Landform – Draft Construction Phasing Plan



Lisa Turnbull

Senior Manager, Project Management Services Project Management Office | Corporate Services

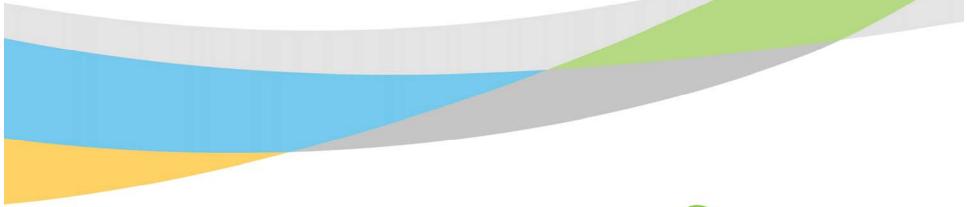
T: 416.661.6600 ext. 5645

C: 416.451.8536

E: lisa.turnbull@trca.ca

A: 101 Exchange Avenue, Vaughan, ON L4K 5R6

Toronto and Region Conservation Authority (TRCA) | <u>trca.ca</u>





www.trca.ca