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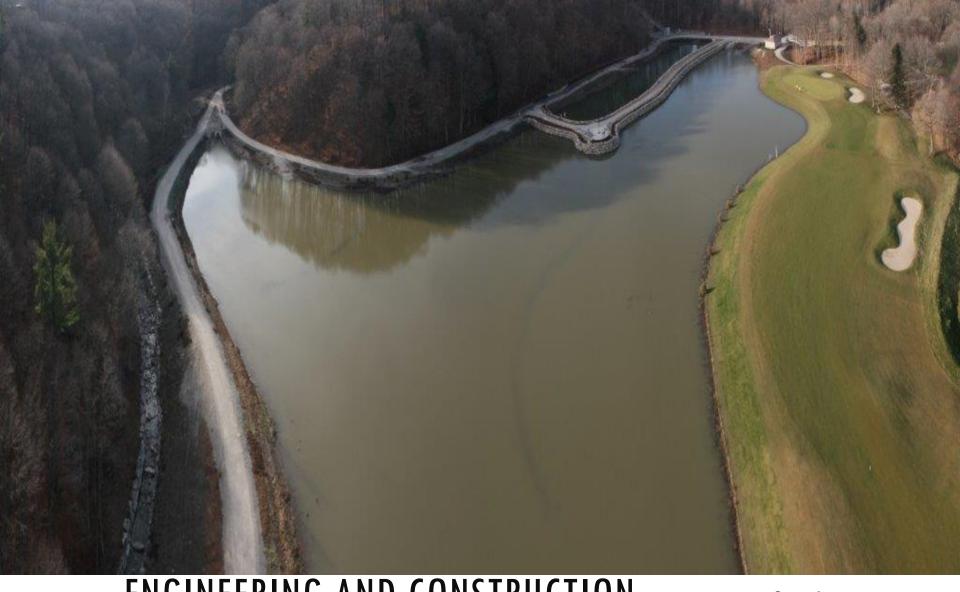
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ENGINEERING AND CONSTRUCTION SERVICES STORMWATER MANAGEMENT INFRASTRUCTURE

Kumar Sivakumaran Daniel McCreery City of Toronto March 23, 2017

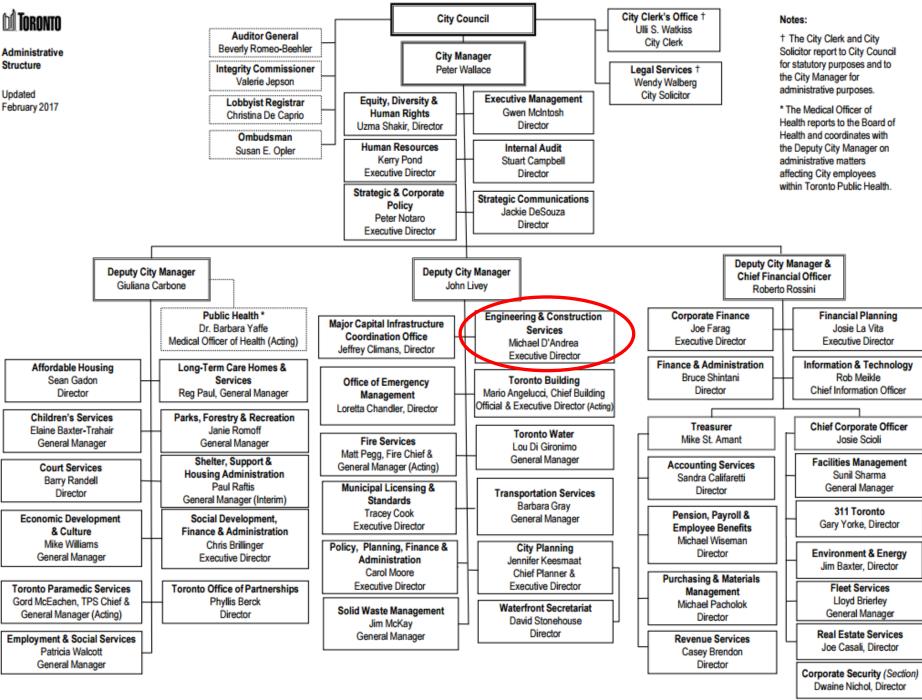
TODAY'S AGENDA

An overview of the City of Toronto's Engineering and Construction Services division

An introduction to the new City of Toronto Stormwater Management Infrastructure Group

Example Project – Earl Bales Park Stormwater Management Facility

Structure Updated





Engineering & Construction Services (ECS)

Mission

"To build safe and sustainable infrastructure that enhances the quality of life for the people of Toronto"

Vision

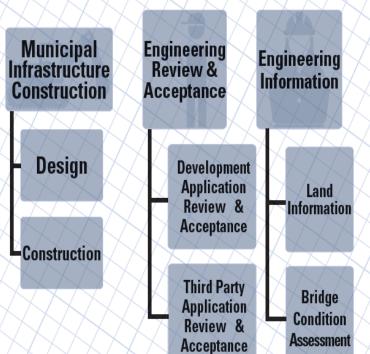
"Be an industry leader in delivering municipal infrastructure engineering services with integrity and pride"

Values

Service: responsive, cooperative, fair and professional in dealings with our stakeholders

Stewardship: responsibly balance economic, social and environmental needs in the delivery of our mandate

Commitment: to collaboration, organizational excellence, accountability, respect





Municipal Infrastructure Design and Construction

Engineering and project management services for the construction of new and upgraded infrastructure including:

- •Roads & Bridges
- Sewers & Watermains
- Stormwater Management Facilities
- •Water and Wastewater Treatment Facilities
- Solid Waste Management Facilities



Track Reconstruction at Intersection of Spadina Avenue and King Street



Ashbridges Bay Wastewater
Treatment Plant



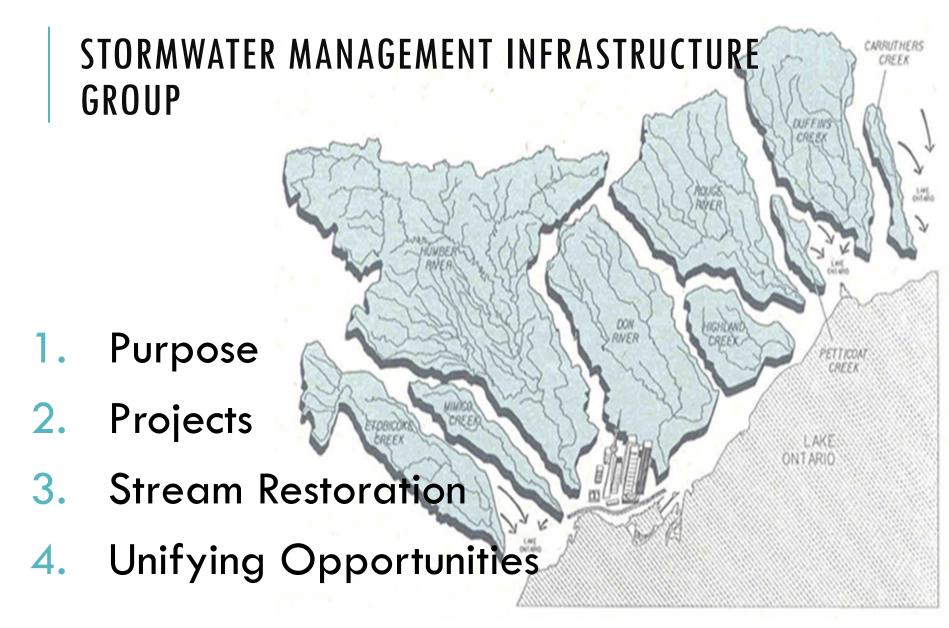
Emery Creek Water Quality Ponds



F.G. Gardiner Expressway
West Deck Replacement

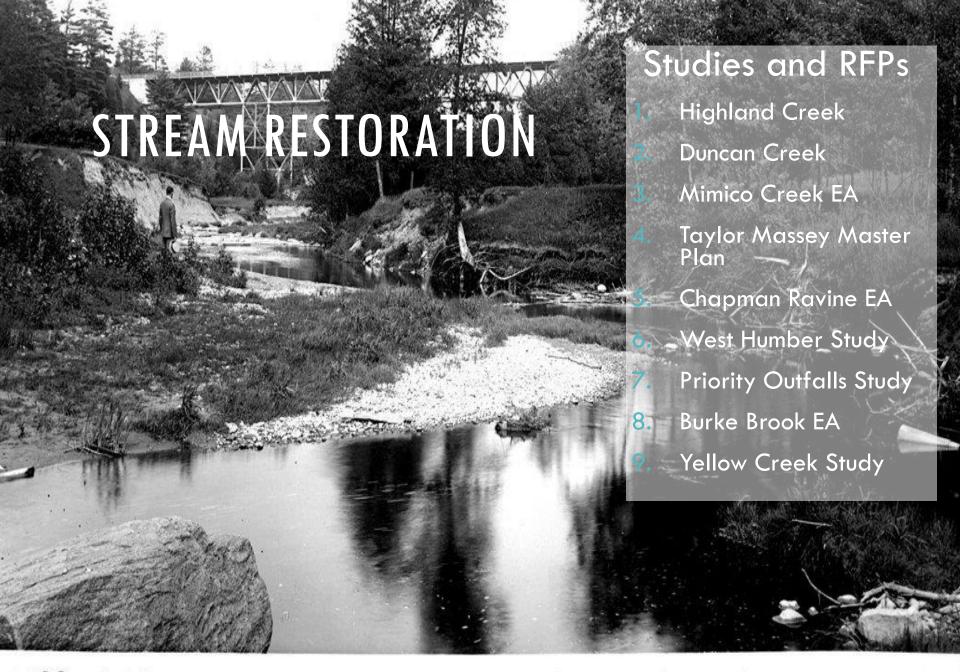


Basement Flooding Protection Program









4988 Highland Creek and New Highway Bridge. (Comm). June 10/27.





THREE INTERRELATED SOURCES INITIATED THE PROJECT

- The City of Toronto Wet Weather Flow Management Master Plan.
- 2. Toronto Region Conservation Authority's Earl Bales Park Management Planning Process.
- 3. A requirement from the redevelopment of the Downsview Base Lands, which lie within a subcatchment of the West Don River and drain to an outlet in Earl Bales Park.

OVERVIEW

The Earl Bales Stormwater Management Facility provides water quality improvement for 550 hectares of developed area west of Bathurst Street in North York.

The project includes a water supply system to provide water from the pond to the Don Valley Golf Course for irrigation and the Earl Bales Park ski hill for snow making.

- 1. Total storage volume 103, 611 m³
- 2. Permanent pool volume 44,078 m³
- 3. Active storage volume 59,533 m³
- 4. Total pond surface area 26,055 m²

IMPLEMENTATION AND APPROVALS

Timeline:

The Environmental Study was completed in 2007

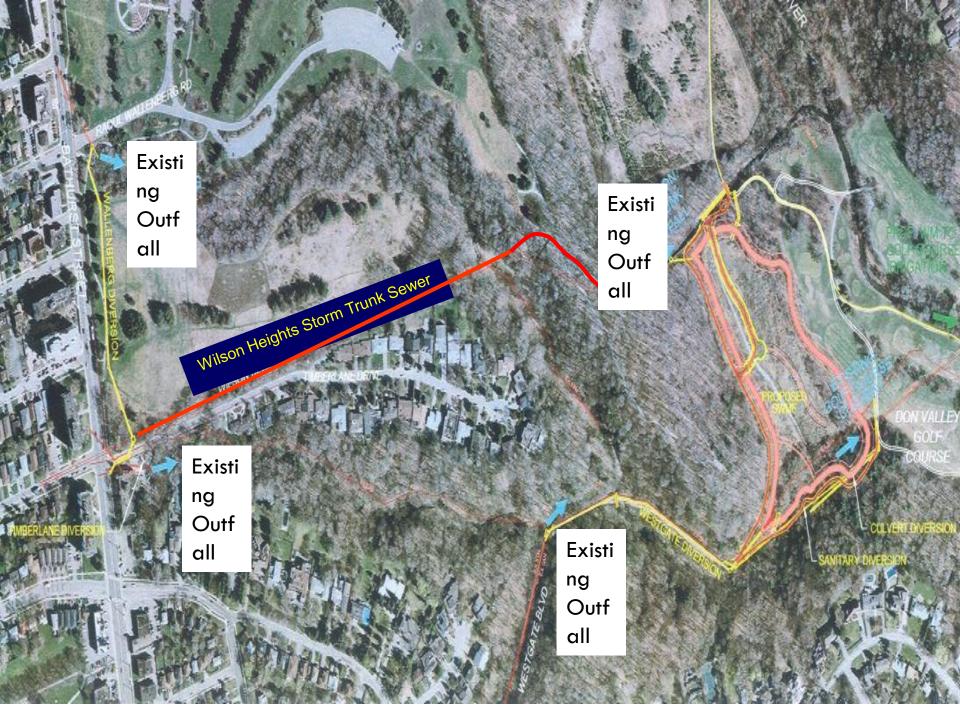
Detailed Design was completed in 2010

Phase 1 Construction - Summer 2010 to spring 2012

Phase 2 Construction - Winter 2015 to ongoing

Approvals:

- 1. Toronto & Region Conservation Authority
- 2. Ministry of Environment
- 3. Ministry of Natural Resources
- 4. City Parks Department & Urban Forestry
- Toronto Building Department



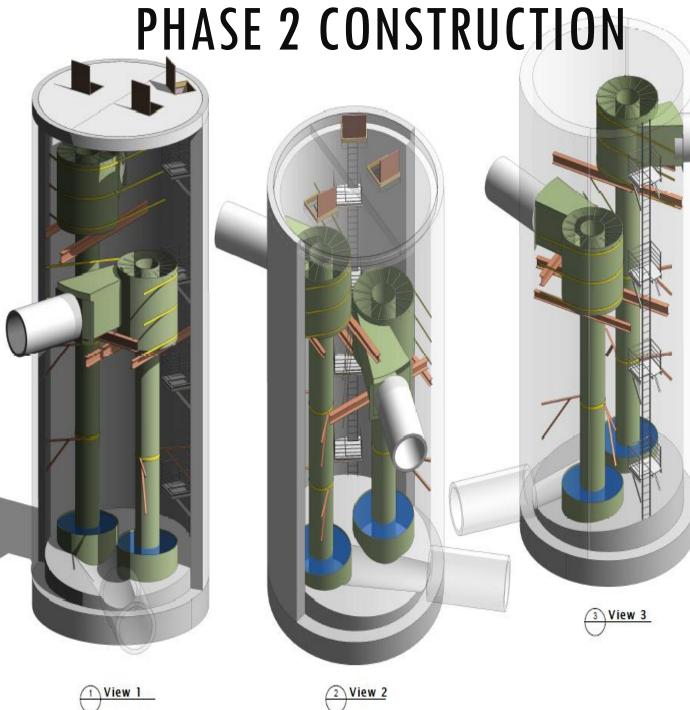


















4986 Foot Bridge at Highland Creek (Comm.) June 10/27.