

2024 Conference Canada's Premier Stormwater and Erosion and Sediment Control Conference

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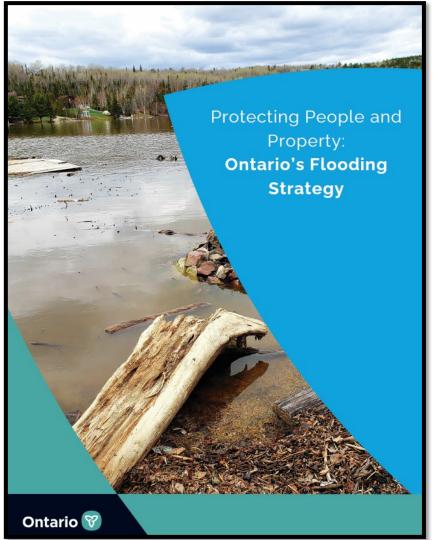


What line is it anyway? Stormwater Infrastructure and Climate Change in Floodplain Mapping



Source to Stream Conference Brampton, ON March 27, 2024 Shawna Chambers, P.Eng., DPA
City of London
Division Manager, Stormwater Engineering
schambers@london.ca
519-661-2489 x7318









Technical Bulletin - Flooding Hazards:
Data Survey and Mapping Specifications

Version 1.0 - December, 2023





Technical Guide

River & Stream Systems: Flooding Hazard Limit



Ontario Ministry of Natural Resources Water Resources Section 300 W ater Street, 5 * Fioor, South Tower, P.O. Box 7000 Peterborough, Ontario (\$9.3 BM5 "should not be relied upon." (Section 4.1, pg. 18)

"may not be used to provide any reduction in flood flows." (Section 4.6, pg. 18)

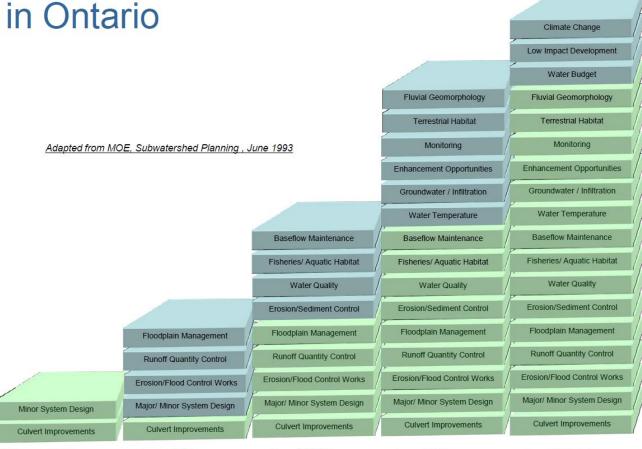
"the cumulative effects of these structures should be incorporated" (3. Land Use, pg. 50)







Evolution of stormwater management

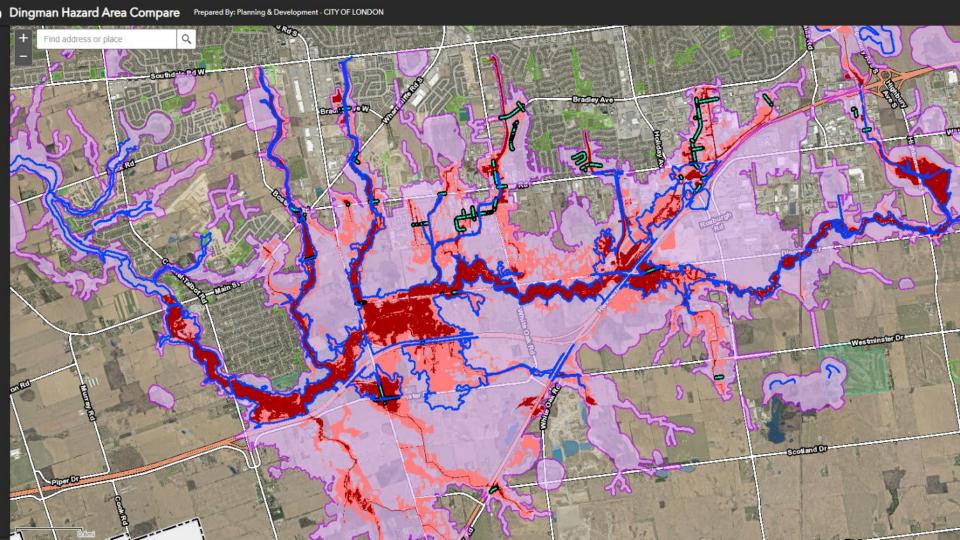






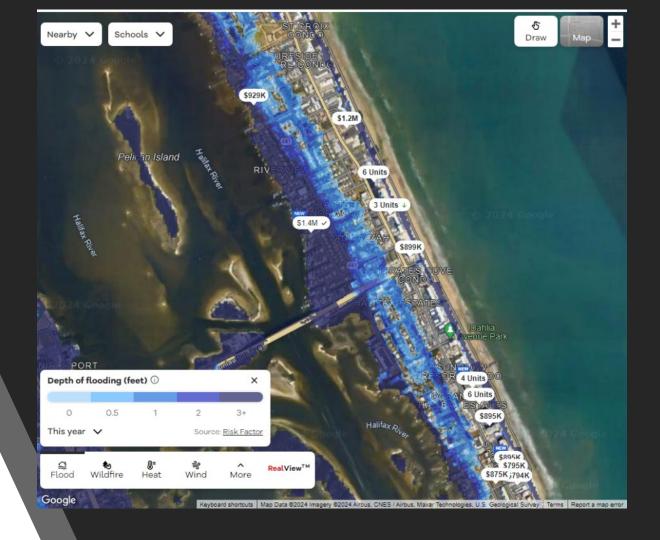
We choose to go to the moon. We choose to go to the moon.

"We choose to go to the moon in this decade and do the other things not because they are easy, but because they are hard. "John F. Kennedy, 1962







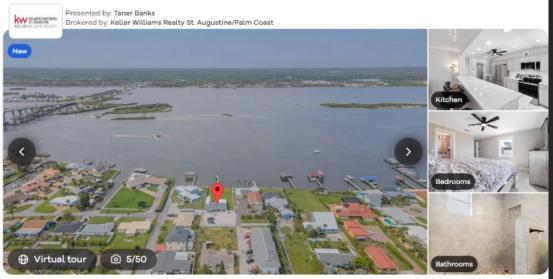


Manage

Port Orange, FL



Florida > Volusia County > Port Orange > 3330 S Peninsula Dr



How much home can you afford?

For sale

\$1,400,000 Est. \$8,246/mo Ø

3 bed 2 bath 2,372 sqft 0.38 acre lot

3330 S Peninsula Dr, Port Orange, FL 32127



Year built









VAN VALZAH





View Flood Factor™ report

Flood Factor™

This property has a 100.00% risk of flooding over 30 years. This property's risk of flood is increasing as weather patterns change. Flooding in this area is caused by precipitation, sea level rise, and hurricane storm surge.



FEMA rating: This property is located in FEMA zone AE

Understand this data

Realtor.com® empowers you with flood data so you can understand your risk and your options. Learn more

Flood insurance may impact your budget

As this property is located in a FEMA Zone AE Special Flood Hazard Area, homeowners are required to purchase flood insurance to obtain a mortgage from federally-backed or regulated lenders. Explore quotes for flood insurance from \$519 to \$990 per year.

Click to compare quotes

Flood risk data including FEMA ratings is provided by Risk Factor", a product of First Street Foundation". The Flood Factor* model is designed to approximate flood risk and not intended to include all possible flood risks. Flood insurance quotes are based on \$250k in building and \$100k in contents coverage.





1990 Water Resources Policies

Conservation Authorities Act, 1990

Land and Rivers Improvement Act, 1990

Environmental Assessment Act, 1990

Ontario Water Resources Act, 1990
(Section 53 Certificate of Approvals)





2002+ Policies

Sustainable Water and Sewage Systems Act, 2002

MECP SWM Planning and Design Manual, 2003

O.Reg. 157/06, 2006 Section 28 added to CA Act

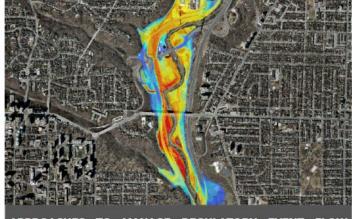
Water Opportunities Act, 2010

O.Reg. 588/17 Asset Management Planning for Municipal Infrastructure, 2017

Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA), 2023







APPROACHES TO MANAGE REGULATORY EVENT FLOW INCREASES RESULTING FROM URBAN DEVELOPMENT

JUNE 2016

Toronto and Region Conservation Authority

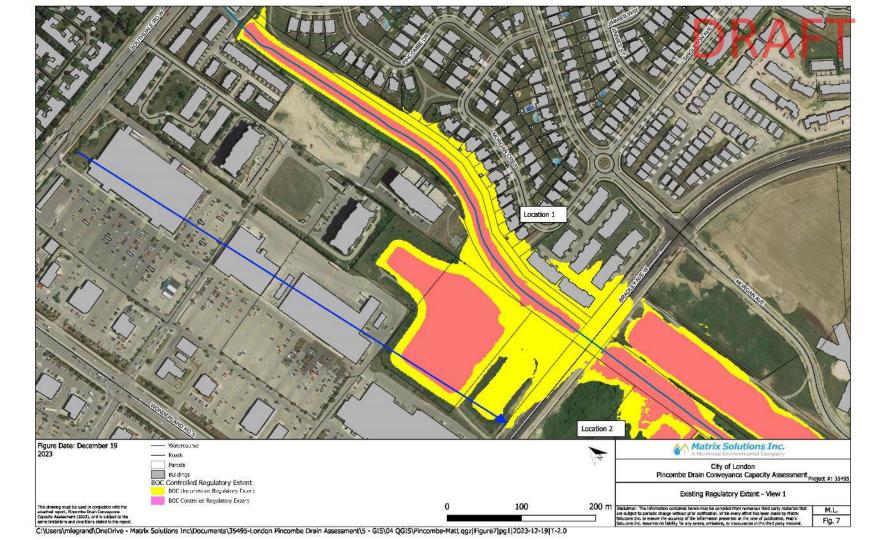
In association with the Regional Storm Control Committee

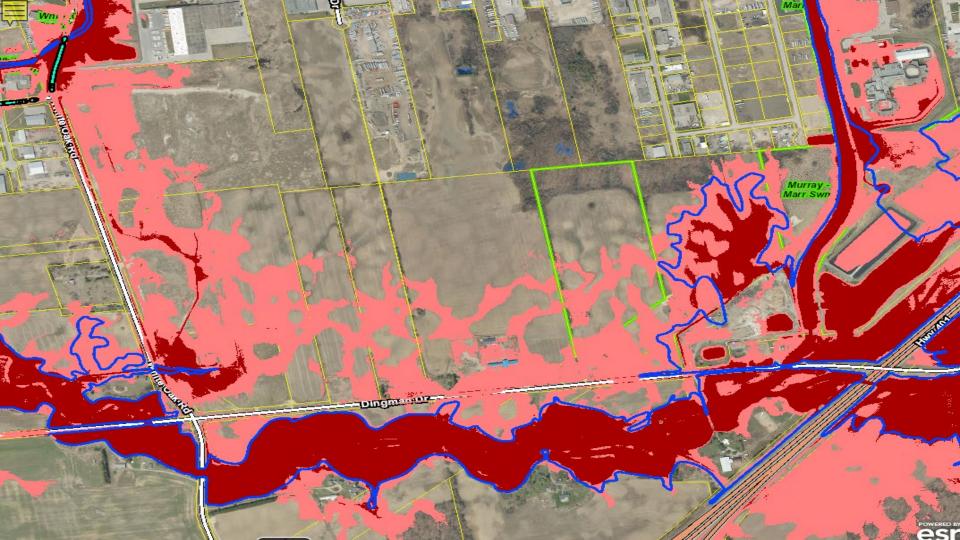


5 Shoreham Drive, Toronto, ON M3N 1S4



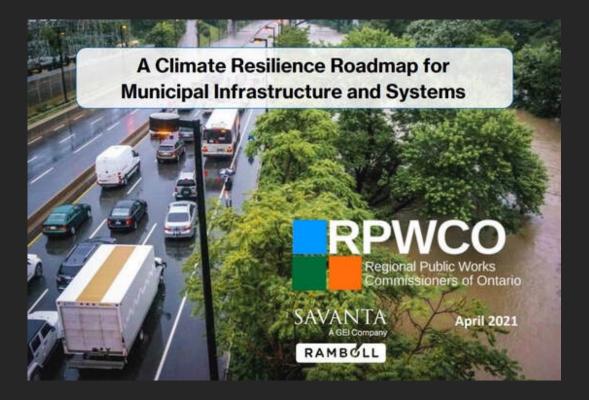




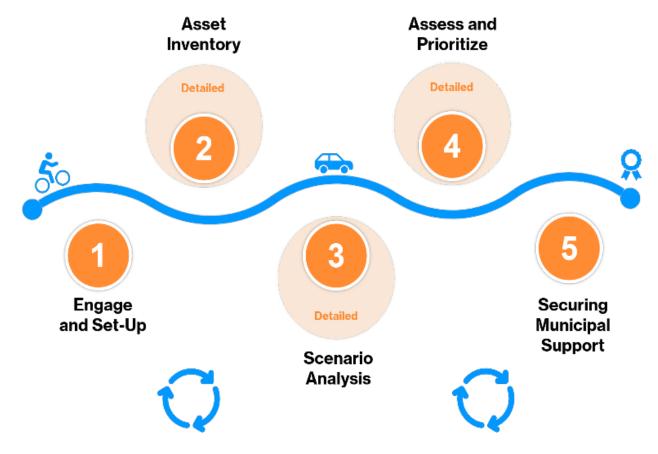












Continuous Learning and Improvement





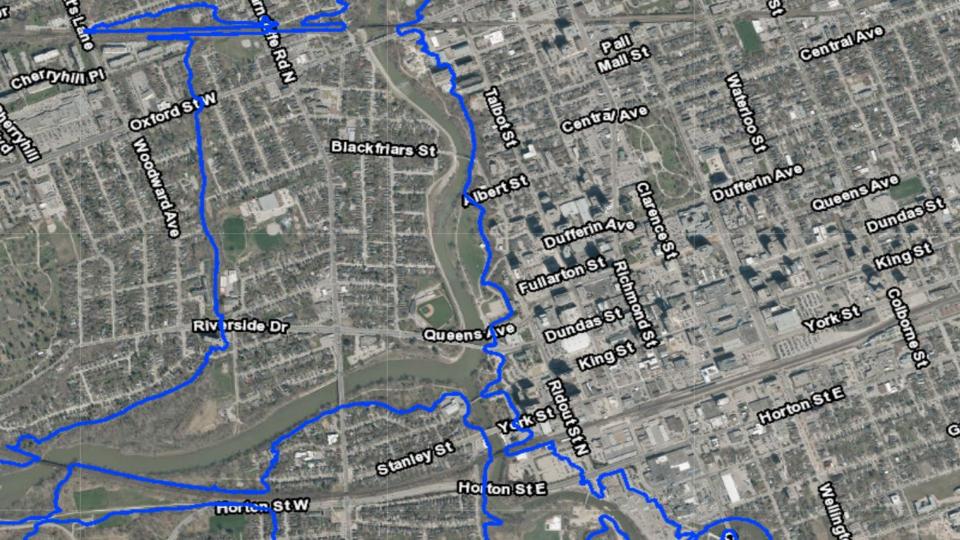


Flood Protection Risk Management Emergency Management Land Use Policy

Level of Service
Infrastructure solutions
Cost to Taxpayers
Land Value/Usability







































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