



HAMILTON WATER
WATER IS LIFE



Hamilton
Public Works

Canadian Water Network

Storm Water - The Hamilton Experience

Blue Cities Conference - May 18-19, 2016 Toronto

Storm Water History

- Community
- People
- Processes
- Finance



- 2004 Beginning of a new wet weather reality in Hamilton
- 2005 Storm Event Response Groups (SERG) form to respond to future events
- September 2005 – City Council directed staff to establish an Independent Community Panel to address the cause and effect of inclement weather

December 2008 – City Council directed staff to report on feasibility of a Stormwater Rate to fund Stormwater Services

- July 26, 2009 – 120 year events produced 7,000 reports of flooded basements & Red Hill Expressway under water
- June 2009 – Under Roster Award, AECOM was retained to assess feasibility of implementing a Stormwater Rate in Hamilton

December 2009 – Council not prepared to accept recommendation of Report PW09099 to implement Stormwater Rate. Council approval and amendments to Report in July 2010

- October 2010 – Report PW10085 submitted to Council
- February 2011 – as part of Phase 2 Study Report PW10085a was submitted to GIC with recommendations

March 2011 – Finance & Corporate Services (F&CS) submitted recommendations on a Water & Wastewater Rate Structure Review to GIC

October 2015 – F&CS presented a report Stormwater Funding Review FCS15061/PW15067 to GIC – Staff directed to evaluate the benefits of an alternative Stormwater Fee Structure and report back to GIC – Motion was defeated

- June 2013 – F&CS presented a report Water, Wastewater & Stormwater Rate Structure Review to GIC
- April 2011 – Finance & Corporate Services Presented Info Report to GIC. Directed to report back in June 2012 with an updated water and wastewater rate structure

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Reaction - 3P and Compassionate Grants

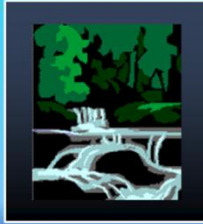
3P Completed Application		
Works		
Backwater valve installed	8846	\$16,095,942.02
Downspouts Disconnected	126	22,419.65
Sewer Lateral Repaired	3	1,042.62
Sump Pump Installed	35	32,090.02
CCTV Video	3897	1,212,59.18
Permits		
Building Permit Fee Reimbursement	7369	\$1,523,923.03
BLD Permit Fee Billed to 3P	952	131,068.00
Sewer Repair Permit Fee Reimbursement	2	114.76
GRAND TOTALS	9005	\$21,448,395.38

Compassionate Grant Payments for Heavy Rain Events							
Event Date	Event Type	Location	Status	Total Liability Claims	Grant Apps Requested	Approved Grants	Total Grant Payments \$
26-Jul-05	Heavy Rain	City Wide	Closed	117	756	601	403,854.00
19-Aug-05	Heavy Rain	City Wide	Closed	561	958	794	512,334.46
10-Jul-06	Heavy Rain	City Wide	Closed	144	785	672	434,005.00
27-Jul-06	Heavy Rain	Waterdown	Closed	8	56	28	17,700.00
01-Dec-06	Heavy Rain	Greenhill	Closed	34	163	75	47,857.68
25-May-07	Heavy Rain	City Wide	Closed	90	118	45	30,199.19
Jun 13-30, 2008	Heavy Rain	City Wide	Closed	28	188	89	38,153.00
Jul 1-31, 2008	Heavy Rain	City Wide	Closed	60	442	198	70,858.00
Aug 1-14, 2008	Heavy Rain	City Wide	Closed	84	688	309	110,784.00
26-Jul-09	Heavy Rain	City Wide	Closed	1,453	7,694	4,125	3,079,128.00
29-Aug-09	Heavy Rain	City Wide	Closed	43	379	154	101,481.00
28-Sep-10	Heavy Rain	City Wide	Open	71	280	111	87,191.19
Total				2,693	12,507	7,201	\$4,933,545.52

As of January 13, 2011

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Flow Ratio to the Harbour



WWTPs = 50%
Watersheds = 50%

Phosphorus from creeks

Maximum daily TP load from upgraded wastewater treatment plants

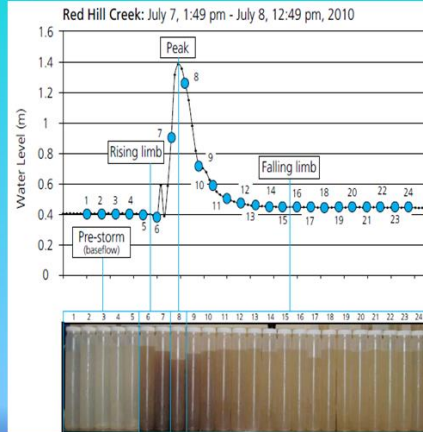


Maximum daily TP load from creeks

20x more

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What a Storm Looks Like

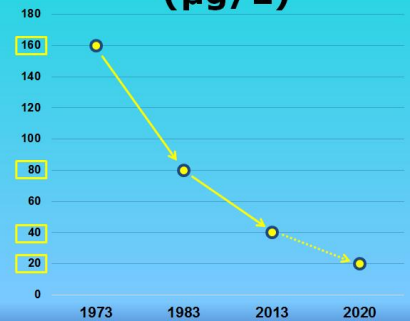


Watershed Challenges

- Climate Change
- Phosphorus pulses from storms



Total Phosphorus (µg/L)





Recent Events

Fall 2015 – Medical waste and person care products washing ashore in the harbour

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**Protest over “disgusting”
Pollution prompts City to close
Waterfront trail**

**Sewage in Hamilton
Harbour came from late
October storm**

Shoreline clean-up group seeks funding



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