



100-Year Storms

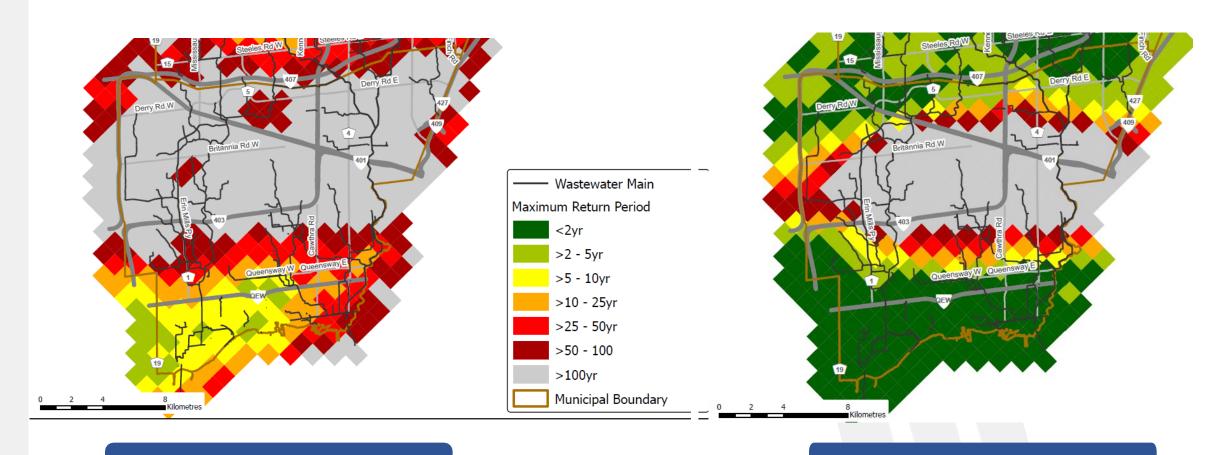
Average Monthly **July** Rainfall **75mm to 85mm**

Max 24-hour Rainfall on July 8, 2023

Max 24-hour Rainfall on July 16, 2024

Max 24-hour Rainfall on August 17, 2024

143mm

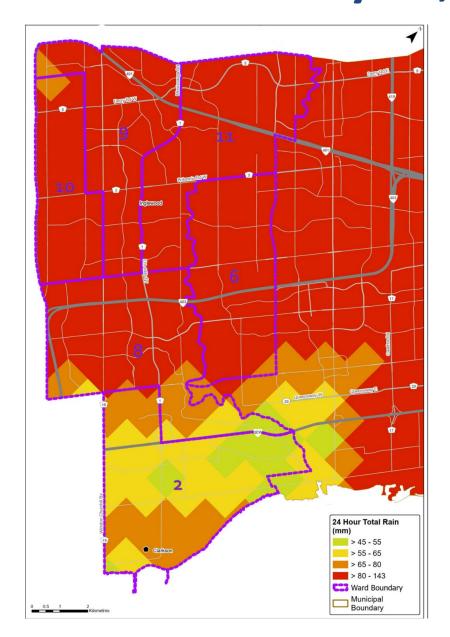


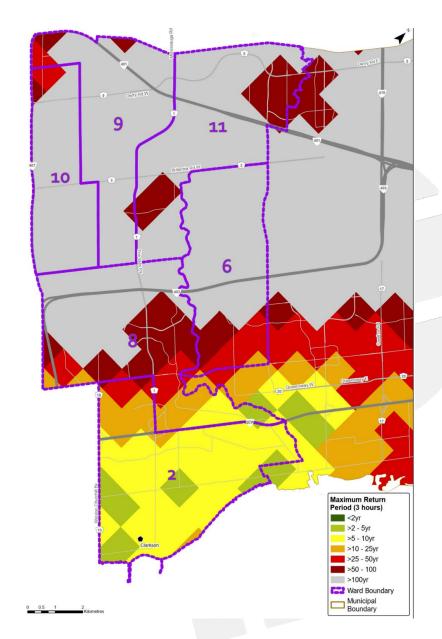
July 2024 Storm

August 2024 Storm



July 15, 2024 Storm







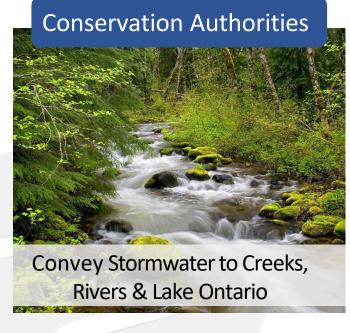
Managing stormwater is a shared responsibility

Pirect the rain to the City's stormwater system









Wastewater system is distinct





Region of Peel Sewage System

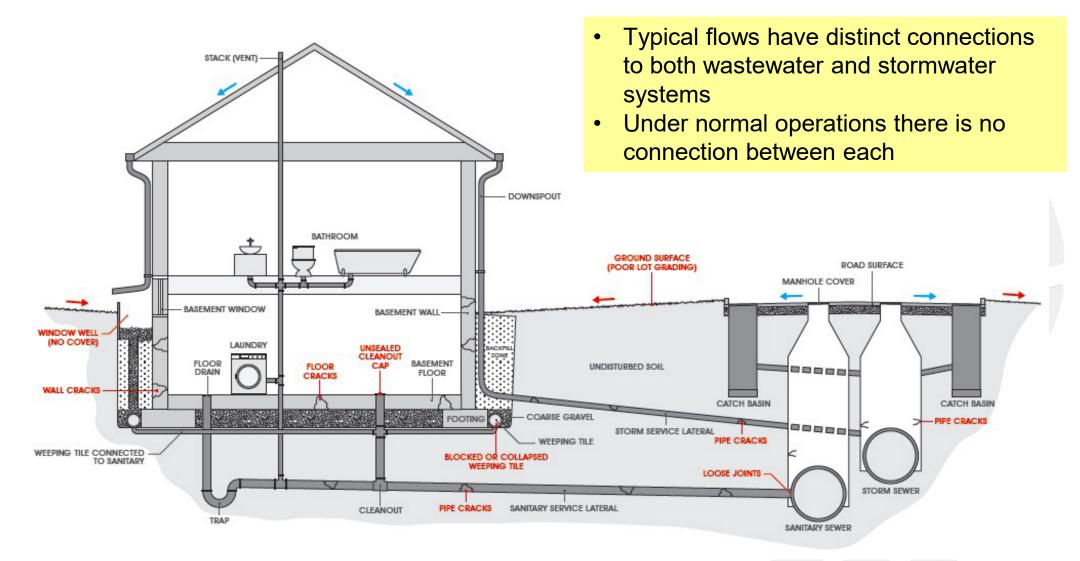


Water Resource Recovery Facility (for treatment)

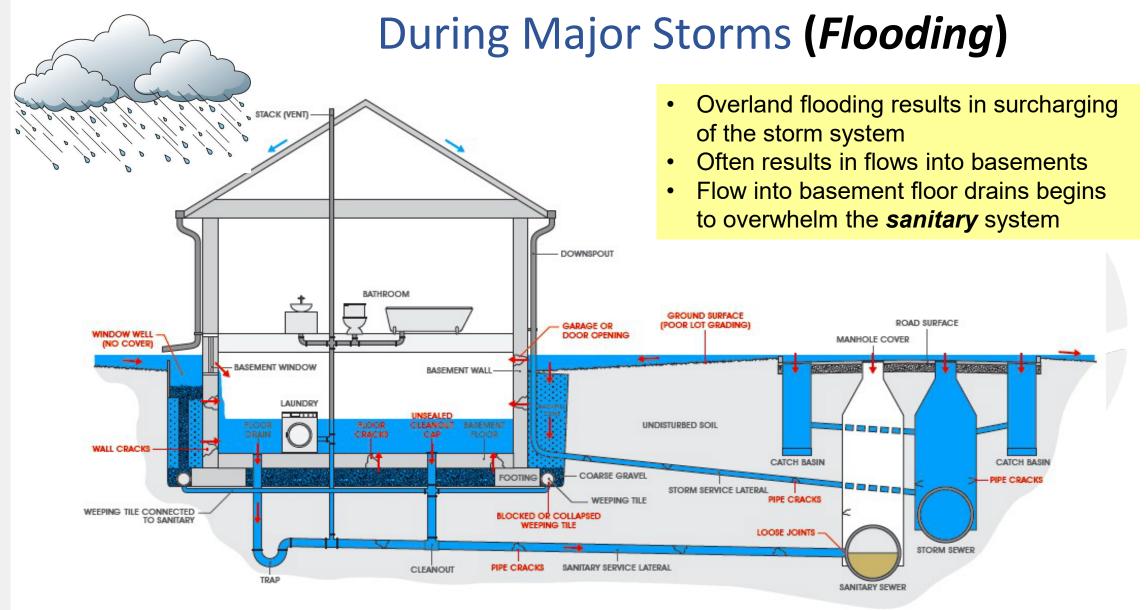




Sanitary vs. Storm Infrastructure - Normal State

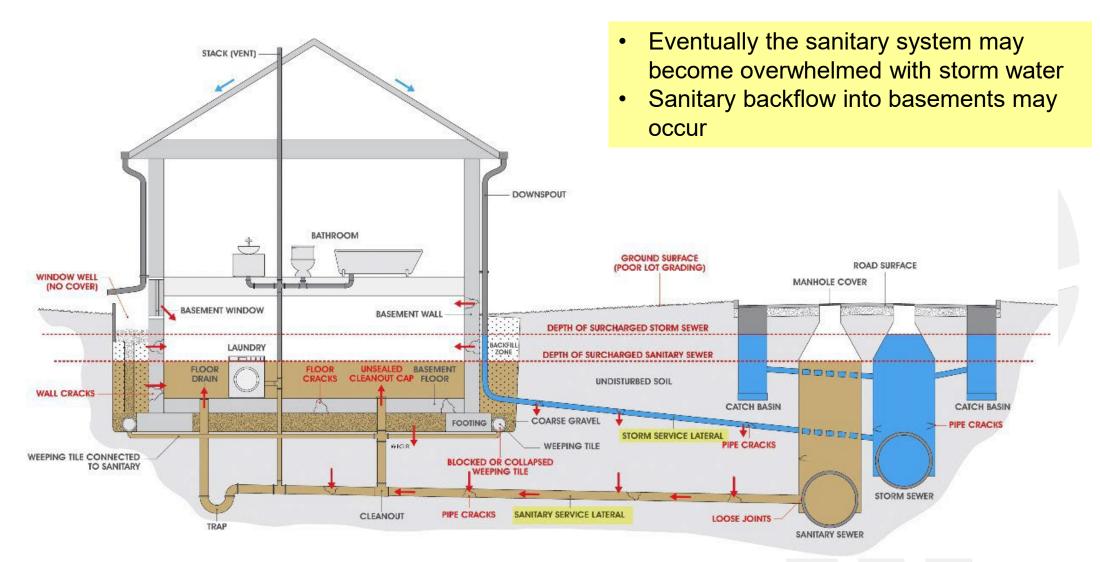








Surcharged Condition (Sanitary)





What is the Region doing for homeowners?



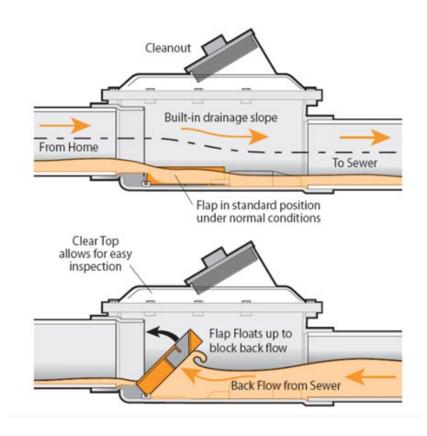


Peel Region Sanitary Backwater Valve Rebate

www.peelregion.ca/wastewater/backwater-valve-rebate

Contact the Region 905-791-7800 #4409

How does a backwater valve work?



- 1. Check with Peel for eligibility: Flood insurance claim or property is in a Region of Peel priority flood vulnerable area.
- 2. Obtain a building permit from the City.
- 3. Installation inspection by the City.
- 4. Submit a rebate application to the Region of Peel.
- The rebate recently increased by Regional Council to 60% of the invoiced cost up to a maximum of \$1500
- Homeowners who have previously received a rebate from Peel Region program eligible for a further rebate after 10 years.
- Recent program changes are in effect retroactively to July 16, 2024.



Sanitary Backwater Valve Considerations

Prevent Sewer Mainline Back-ups

Avoid flushing disposable wipes, diapers, paper towel, fats, oil, and grease.

Get Professional Advice

Retain a certified plumber to ensure you employ appropriate flood prevention methods for your home.



Challenges

Valves are mechanical devices and need regular maintenance (checked and cleaned)

If the backwater valve is **closed** during a storm, **DO NOT** use water (shower, washing, flushing) because this will result in flooding your own basement.



Homeowner Resources

A Residential Guide to Flood Prevention and Recovery

www.peelregion.ca/water/-media/basement-flood-prevention-guide

Region of Peel Sanitary Backwater Valve Rebate Program

www.peelregion.ca/wastewater/backwater-valve-rebate.asp

Region of Peel Guidance www.peelregion.ca/water/flooding-leaks/



A Residential Guide to Flood Prevention and Recovery









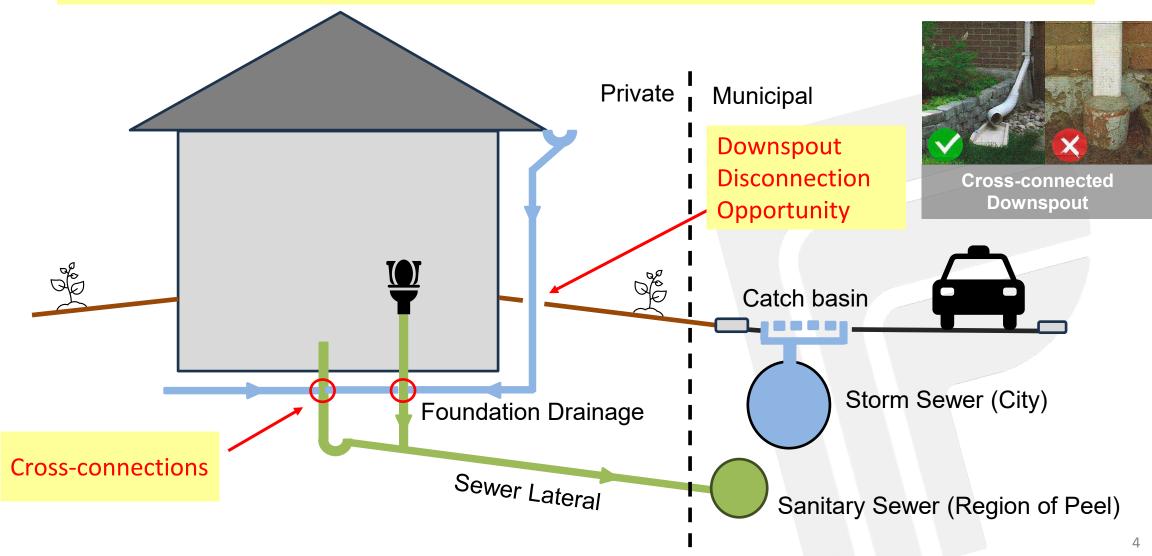


How are we improving Peel's Wastewater System?



Downspout Disconnection

Eliminating direct connections to the sanitary system – where they exist



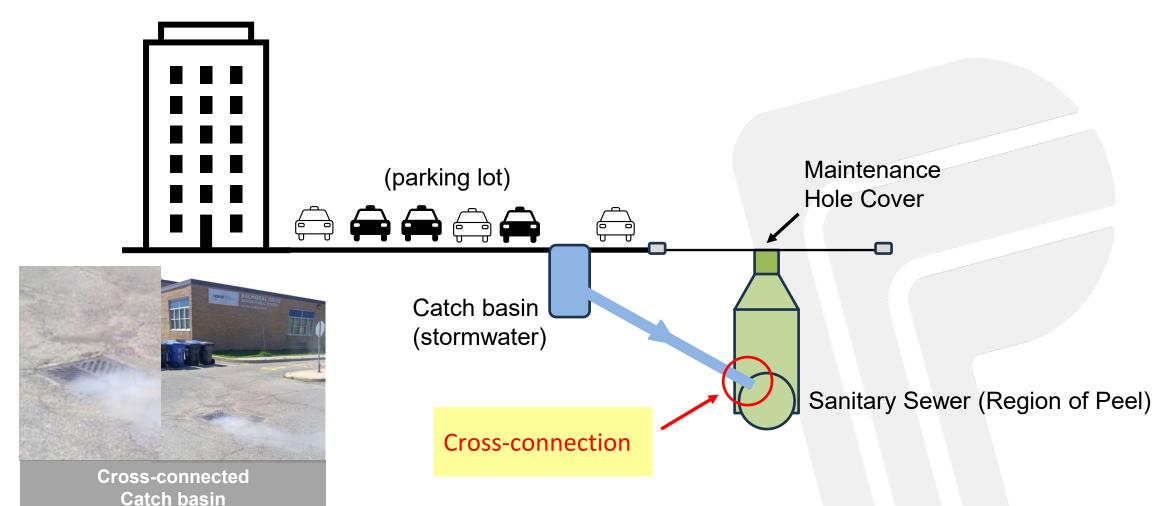


Rehabilitating our system





Eliminating Storm/ Sanitary Cross Connections





Adaptation Projects

Project	Location	Status
Etobicoke Creek Storage Facility	Mississauga	Under construction, in service 2025
Lakeshore Relief Sewer (Phase 1 – Elmwood to Jack Darling Park)	Mississauga/ Port Credit	Construction commencing 2024
GE Booth Water Resource Recovery Facility	Mississauga/ Lakeview	Under construction.
Queensway Relief Sewer	Mississauga	2026-2030
Cawthra Road Relief Sewer Phase 2	Mississauga	2026-2028
Lakeshore Relief Sewer (Future Phases – Elmwood to G.E. Booth and Jack Darling Park to Southdown)	Mississauga - Lakeview/ Port Credit/ Clarkson	TBD







Work Completed to reduce basement flooding Since 2013

Ward 10

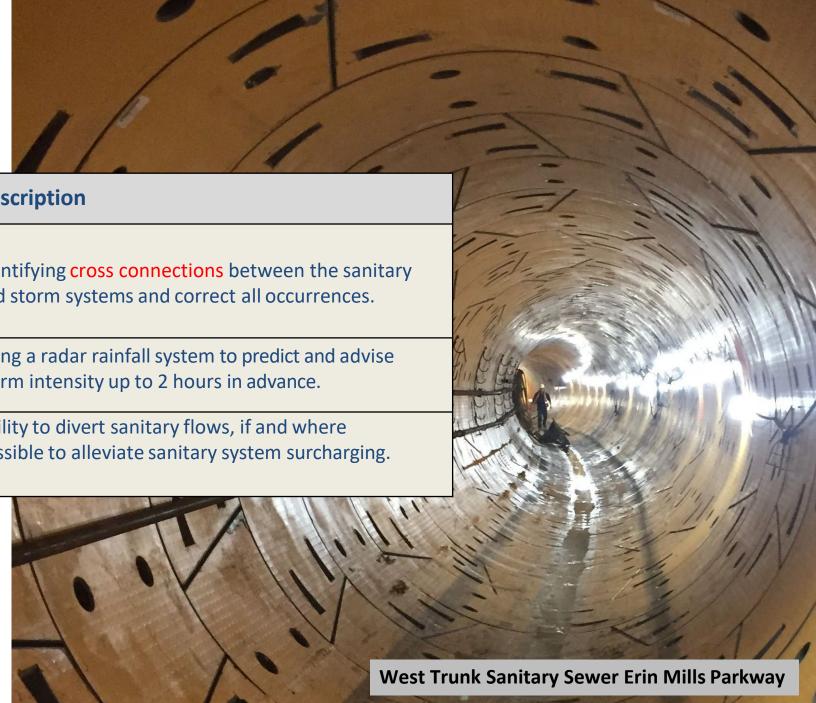
- Multiple sanitary flow meters were installed to better understand and monitor the performance of the sanitary sewers during wet weather events
- Region shared the sanitary flow meter information with City of Mississauga staff to support storm water drainage studies
- Continuing monitoring to ensure system capacity isn't impacted by storms

Entire System

- 2600 km of CCTV Inspection
- 350 km of testing to find and remove cross connections
- 400+ flow meters to measure true problem areas
- 87,000 downspout surveyed
- Developed radar system to determine true rainfall that occurs in each area
- Developed new standards to reduce inflow and infiltration

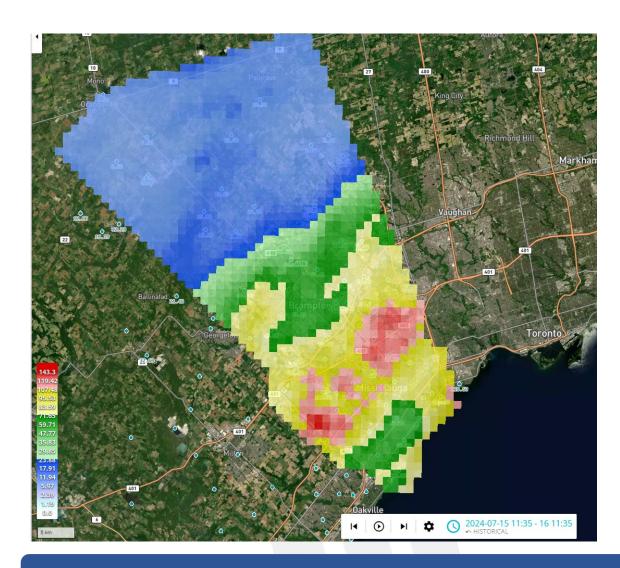


Continuous			
Improvement			
Activity	Description		
Region of Peel and City of Mississauga - Cross connection committee	Identifying cros		
Rainfall Monitoring and advance warning system	Using a radar ra storm intensity		
Sanitary system Real Time Control	Ability to divert possible to alle		





Thank You!



July 16, 2024 GARR Data