

Presentation for PDS 14-2019

CSO Control and Wet Weather
Management Program – 2019 Funding
Recommendations

April 17, 2019

Wet Weather Management/CSO Program

- Transferred from Public Works to Planning & Development in 2018
- Targeted Removal of Inflow & Infiltration from sanitary sewer system throughout the Region
 - Protection of basement flooding
 - Reducing overflows to the environment
 - Capacity to support growth
 - Postpone upgrades/expansion of sanitary sewer system



Defining the Problem

Inflow & Infiltration



The CSO Control & WWM Policy

- Shared funding
- Mitigate the impacts of wet weather
- Joint responsibility between LAMs and the Region
- “Optimal Solution” independent of ownership
- Eliminate, reduce, contain and report

| | |
|---|--|
| | |
| CORPORATE POLICY <small>Policy number is applied by RRS following policy approval</small> | |
| SECTION: Public Works – Water and Wastewater | NAME OF POLICY: Combined Sewer Overflow Control & Wet Weather Management Policy |
| Page 1 of 4 | |
| DEVELOPED BY: | Public Works Department |
| APPROVED BY: | Regional Council |
| APPROVAL DATE: | June 1, 2007 |
| EFFECTIVE DATE: | June 1, 2007 |
| REVISION DATE: | September 2, 2014 |
| HISTORY OF THIS POLICY <small>Implemented in June 2007, revised Oct 2008</small> | |

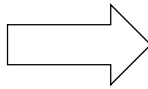
Wet Weather Management Program



293 Approved Applications from 2007-2018



\$ 56 M in total Regional funding approved



\$ 18 M remaining for active project to be completed

Types of Projects

- Sewer Separation
- Studies
- Private Side Source Control
- Conveyance and Flow Control
- Repair, Rehabilitation & Replacement



Wet Weather Management Committee



Bob Leroux



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Sean Dunsmore



Jim Huppen



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2019 Recommended Projects

| Municipality | Project Title | Region % Share | Funding Requested | Funding Approved |
|---------------------|--|----------------|---------------------|---------------------|
| Fort Erie | Bertie Place Watermain Replacement (BRPL19) ¹ | 30% | \$ 73,500 | \$ 73,500 |
| | Highland Ave Sanitary Sewer Replacement & Road Reconstruction | 30% | \$ 123,300 | \$ 123,300 |
| | Nigh Road Sewershed Trenchless Rehabilitation (NSST19) | 30% | \$ 120,000 | \$ 120,000 |
| | Thunder Bay Trenchless Sewer Rehabilitation (TBTR19) | 30% | \$ 48,000 | \$ 48,000 |
| | Lakeside Road Watermain Replacement and Road Reconstruction ¹ | 30% | \$ 320,700 | \$ 320,700 |
| | Sanitary Sewer Flow Monitoring (FLOMON) | 60% | \$ 45,000 | \$ 45,000 |
| Lincoln | Jordan Station/Campden Sump Pump Disconnect - Phase 1 | 60% | \$ 360,000 | \$ 360,000 |
| | Jordan and Campden Downspout Disconnect Phase 2 | 60% | \$ 8,100 | \$ 8,100 |
| | Twenty-First Street Maintenance Hole Replacement | 30% | \$ 29,400 | \$ 29,400 |
| Niagara Falls | Fifth & Sixth Avenue Sewer Separation | 40% | \$ 153,320 | \$ 153,320 |
| | Fourth Avenue Sewer Separation | 40% | \$ 179,640 | \$ 179,640 |
| | Ross Street Sewer Separation | 40% | \$ 9,840 | \$ 9,840 |
| | St. James Avenue Sewer Separation | 40% | \$ 155,400 | \$ 155,400 |
| | Third Avenue Sewer Separation | 40% | \$ 65,040 | \$ 65,040 |
| | South Niagara Falls Infiltration and Inflow Study - Phase 2 | 50% | \$ 100,000 | \$ 100,000 |
| Niagara-on-the-Lake | CSO Flow Monitoring (Post Repair)-(Phase 1-King-Charlotte Area) | 60% | \$ 30,000 | \$ 30,000 |
| | CSO Reduction Project - Old Town (Phase 2 - Front & Ricardo Streets) | 50% | \$ 75,000 | \$ 75,000 |
| | Old Town CSO I/I Study (Phase 3 - Dorchester St. South Area) | 30% | \$ 45,000 | \$ 45,000 |
| Pelham | Design - Church Street Upgrade | 30% | \$ 15,000 | \$ 15,000 |
| St. Catharines | Hampstead Place Sewer Separation | 50% | \$ 104,000 | \$ 104,000 |
| | Yale Crescent | 40% | \$ 99,200 | \$ 99,200 |
| | Else Street Sewer Separation | 50% | \$ 1,040,000 | \$ 1,040,000 |
| Thorold | Sanitary Sewer Spot Repair Project | 30% | \$ 10,590 | \$ 10,590 |
| | Edgar Elgin (SCF) Sewer Separation | 40% | \$ 100,000 | \$ 100,000 |
| Welland | West Main Area Inf. Improv. WW | 40% | \$ 180,000 | \$ 180,000 |
| | West Main Area Inf. Improv. Storm Water | 40% | \$ 120,000 | \$ 120,000 |
| | Catchbasin Separation Work | 40% | \$ 74,200 | \$ 74,200 |
| | Lincoln & Coventry Flow Monitoring | 60% | \$ 45,000 | \$ 45,000 |
| | CSO & Sewer System Flow Level Monitoring | 60% | \$ 60,000 | \$ 60,000 |
| | Extraneous Sewer Flow Study | 50% | \$ 50,000 | \$ 50,000 |
| | Evelyn Ditch Flow Monitoring | 60% | \$ 90,000 | \$ 90,000 |
| | Municipal I/I Collective Research Project for the Reduction of I/I | 100% | \$ 15,000 | \$ 15,000 |
| Total | | | \$ 3,944,230 | \$ 3,944,230 |

Wet Weather Management Program

Questions ?

Ilija Stetic, W&WW Development Project Manager