BURLINGTON'S LONG-TERM CONTROL PLAN (LTCP)

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Jenna Olson
Water Policy & Programs Manager
Where this fits with everything else

Why do we need a Long-Term Control Plan?

What is a Long-Term Control Plan?

How are we meeting LTCP requirements?

Timeline for implementation

Next Steps

Comments & Questions
WHERE DOES THIS FIT?

Integrated Water Quality Plan

Municipal Separate Storm Sewer System (MS4) Permit
Phosphorous Control Plan (Lake Champlain TMDL)
Municipal Roads General Permit
State Stormwater Permits & "3-Acre" sites

Wastewater Treatment Plant Permits (NPDES)

Flow Restoration Plans (FRPs)
- Englesby Brook
- Potash Brook
- Centennial Brook

Long-Term Control Plan
- 1272 Order
WHY DO WE NEED A LTCP?

- We have combined sewers
- 2016 CSO Rule
- 1272 Order
in 2022, Burlington has 5 combined sewer overflow locations, reduced from 12.

Prior to 1994 upgrades, Burlington was discharging an average of 170 million gallons of untreated, non-disinfected combined flows directly to area waters every time it rained.
ARRA CSO Reduction Projects completed for N. Champlain, Park, and Gazo

Significant pipe cleaning upstream of Colchester Avenue CSO

GSI/CSO Grant reduction projects completed for Pine Street (end of year)
WHAT IS A LONG-TERM CONTROL PLAN?

- Specific plan to address combined sewer overflows (CSOs)
- Outlines explicit actions City will take to mitigate CSO discharges
- Establishes a schedule for implementation
- Provides a framework for DEC to monitor progress
- Establishes a financing plan / financial capability analysis
### HOW DOES BURLINGTON PROPOSE TO MEET LTCP REQUIREMENTS?

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| 300,000 gallon storage tank along Pine Street. | Implementation of stormwater mitigation measures above CSO areas | 1. Enhanced flow metering & modeling  
2. Backwater prevention program development  
3. Pipe upsizing / distributed storage |
STORAGE

Installation of a 300,000 gallon storage tank that will capture excess flow during storm events that exceed the capacity of the collection system. Once capacity is available at the treatment plant, the stored combined sewage will be released to the collection system so that those flows can travel to the plant for treatment.

Estimated Cost:
$4.7 million

Estimated Timeline:
Aug. 2022 - Mar. 2024 - Design
Apr. 2024 - Apr. 2026 - Bidding & Construction
May 2026 - July 2026 - Start-up & Commissioning
DISTRIBUTED VOLUME CONTROL

Part of the City’s proposed Integrated Plan, this includes installation of distributed green infrastructure to provide volume control in the combined sewer - specifically above CSO points. A total of 65 systems are proposed, that would manage a collective 71 acres of impervious cover (as much storage as almost 3 Olympic swimming pools!)

Estimated Cost:
Will vary by system - estimated $100K / acre managed

Estimated Timeline:
October 2021 - March 2030
>> 14 GSI projects were constructed in the South End above the Pine Street CSO in fall 2021; an additional 3 GSI systems will be installed in the ONE by the end of 2022. <<
There are three proposed items nested within this category, including re-metering and enhanced H/H modeling of the collection system, development of a basement surcharge prevention program, and (depending on the outcome of metering and modeling) pipe upsizing and more distributed storage projects.

**Estimated Cost:**
TBD

**Estimated Timeline:**
2022-2023: Basement Surcharge Program
2022-2025: Re-metering & modeling:
2025-2040: Pipe Upsizing (if needed) / distributed storage
# IMPLEMENTATION SCHEDULE

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NEXT STEPS

- DEC approves City's Long-Term Control Plan
- DEC issues a new 1272 Order
- City continues implementation & reporting process per Rule for 5-year term, and updates LTCP at the next cycle
QUESTIONS & COMMENTS