Long Term CSO Control Plan Project

The Next Step in Wet Weather Planning

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Key Take-Aways (01)

Background

(02)

This Project (03)

The Contract 04

Questions

(05)



Key Take-Aways

Consulting Contract – LimnoTech Recommended

Update Our Wet Weather Plan of Record – NPDES Permit

Move from Conceptual Projects to Preliminary Design

Further Optimize and Consider Affordability

Complete in 2023



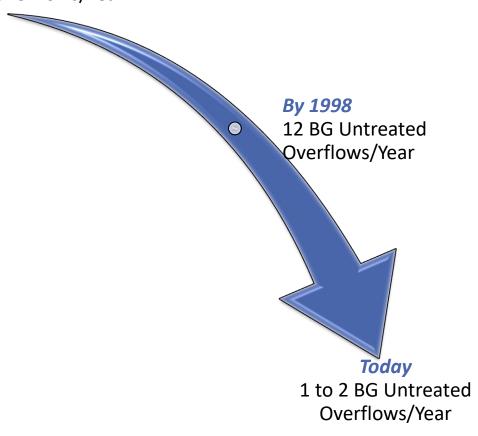
Background

This has been a long road...

Where We've Been

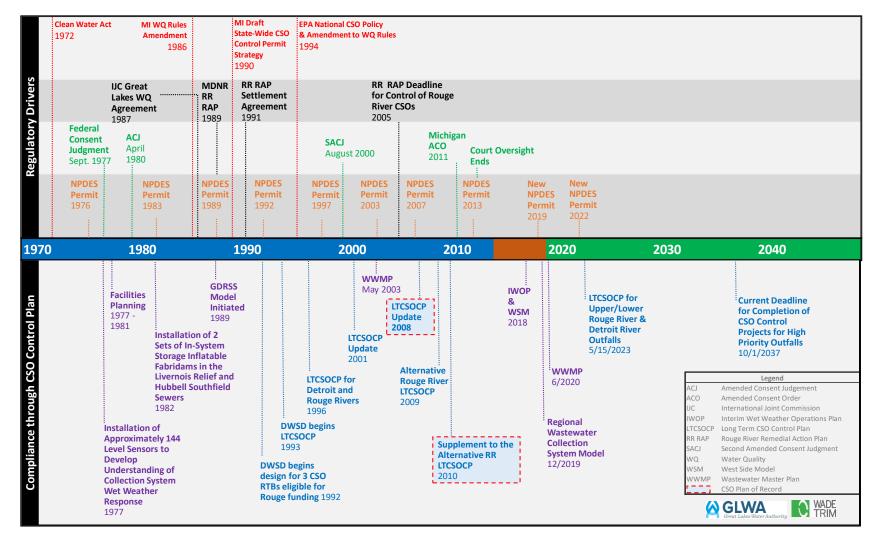
Before Wet Weather Control

Approx. 21 BG Untreated Overflows/Year





Detailed Regulatory History





This Project

The Next Chapter

Comparison to Master Plan

Wastewater Master Plan

- GLWA Initiated
- Regional
- More than Wet Weather
- Planning Level Concepts
- Phased with No Specific Dates
- Provided A Framework That Is
 - Integrated
 - Adaptable
 - Flexible

Long Term CSO Control Plan

- NPDES Permit Required
- Specific to GLWA & DWSD
- Specific to Wet Weather
- Preliminary Engineering
- More Specificity Required
- Leverage Framework
 - Effective
 - Affordable



This Project and Plan Must Be

- 1. Affordable Reasonably Able to Be Implemented
- 2. Effective Improve Water Quality
- 3. Efficient Optimize What We Have First
- 4. Sustainable Recognize Needs for Asset Renewals



Project Approach Will Provide



Further Refined Optimizations



Greatest Reduction in Untreated Overflow per Dollar Expended



Road Map for Future CSO Control

What Technologies
Which Outfalls
When to Implement



Use of Artificial Intelligence to Run Optimization Iterations



Basis of Design/Preliminary
Engineering for Selected Projects



The Contract

How and When
We Will Get It Done

Solicitation

- Qualifications Based Selection
- Team Members from GLWA and DWSD on the Evaluation Team
- Two Proposals Received
- Recommending Award to LimnoTech



How It Will Be Accomplished 11 Tasks

- Project Management
- Regulatory and Stakeholder Coordination
- Background Data Review and Analytics
- Hydraulic Modeling Analysis& Reporting
- System Optimization Analysis
- Receiving Water Modeling, Analysis and Reporting

- Existing and Baseline Conditions Analysis
- Alternatives Development and Evaluation
- Financial Capability Analysis
- Recommended Plan
- As Needed Modeling, Capacity Evaluations, Contract Negotiations and Meetings



Performance Incentive

- Approach to Incentivize Flow Reduction Results in Scope
- Details to Be Developed In Future
- Any Incentive Will Require Board Approval
- Negotiations Ongoing



How Long Will It Take

- Proposed Contract Duration 4.5 Years
 - Nov 2020 Award Contract
 - Sept 2022 60% Complete
 - Jan 2023 90% Complete
 - May 2023 Long Term Control Plan Due
 - Negotiations, Data Collection and Analytics
- May 2025 Proposed Contract End Date



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Questions?



