

I/I CONTROL PROGRAM REVIEW & STATUS UPDATE

EVALUATION OF INFLOW AND INFILTRATION
REDUCTION CONCEPTS PHASE 2

DECEMBER 3, 2020

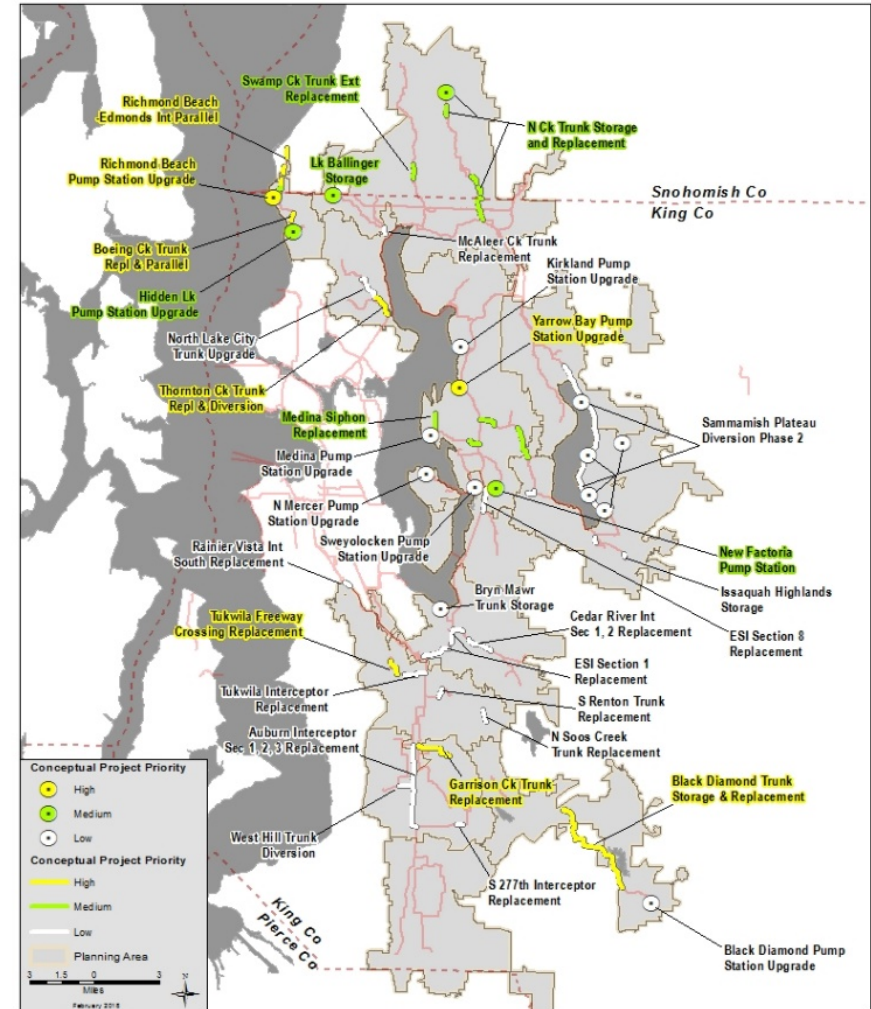
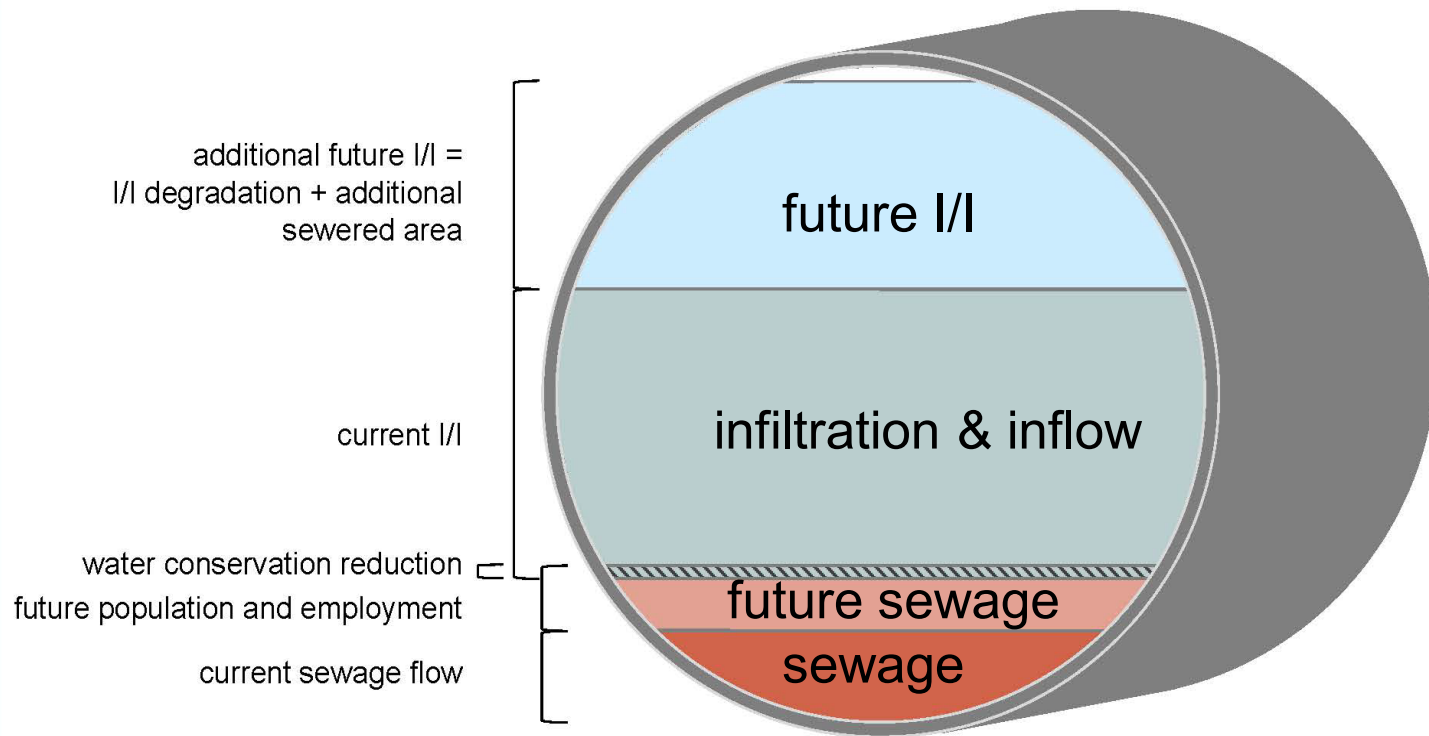


King County

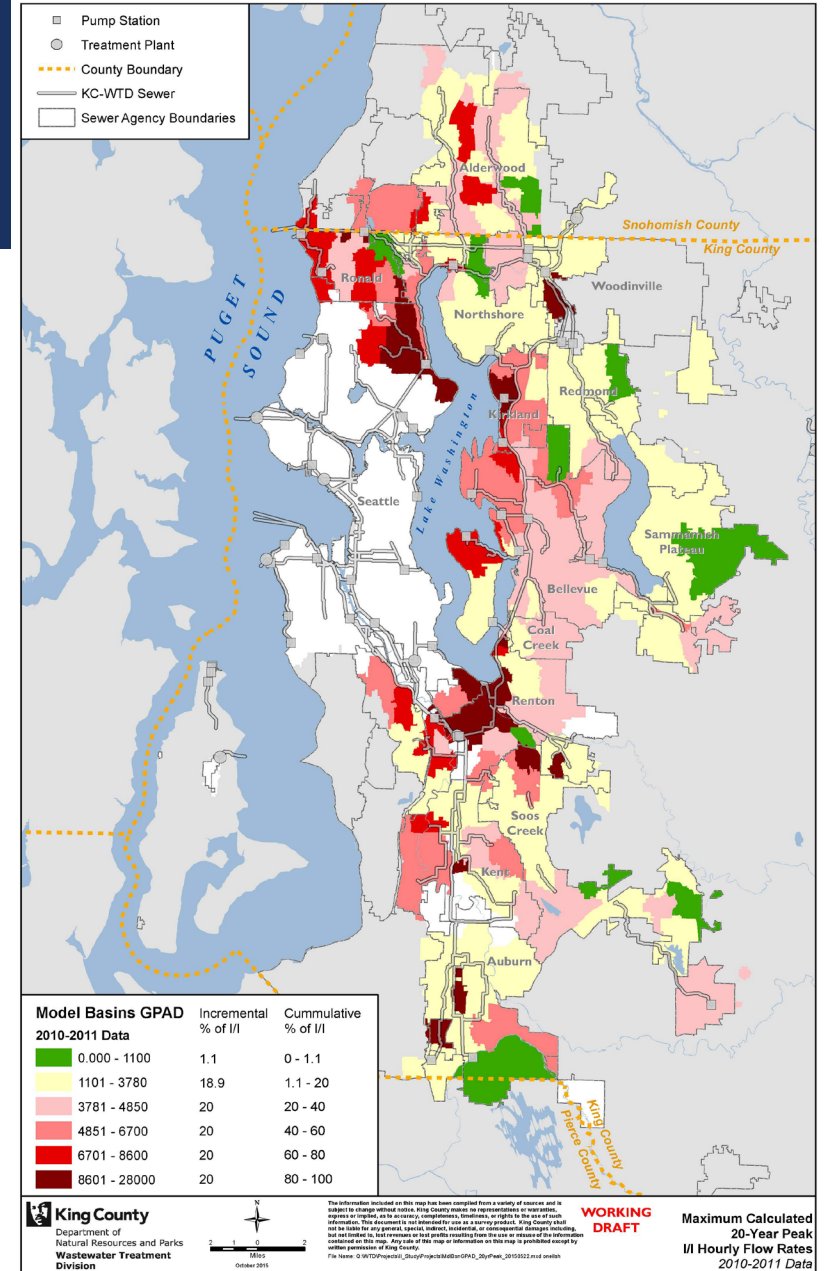
Department of Natural Resources and Parks
Wastewater Treatment Division

I/I IN THE REGIONAL WASTEWATER CONVEYANCE SYSTEM

Components of Future Flows



PEAK I/I HOURLY FLOW RATES VARY IN THE REGIONAL SYSTEM



WHAT HAS THE REGION DONE TO CONTROL I/I?

Created Program as part of the Regional Wastewater Services Plan

1999

Developed Program Plan, the Executive Recommended Regional I/I Control Program

2005

Explore and develop new Program measures to reduce I/I particularly in private side sewers

2015-Today

2000-2005

Completed I/I Control Study

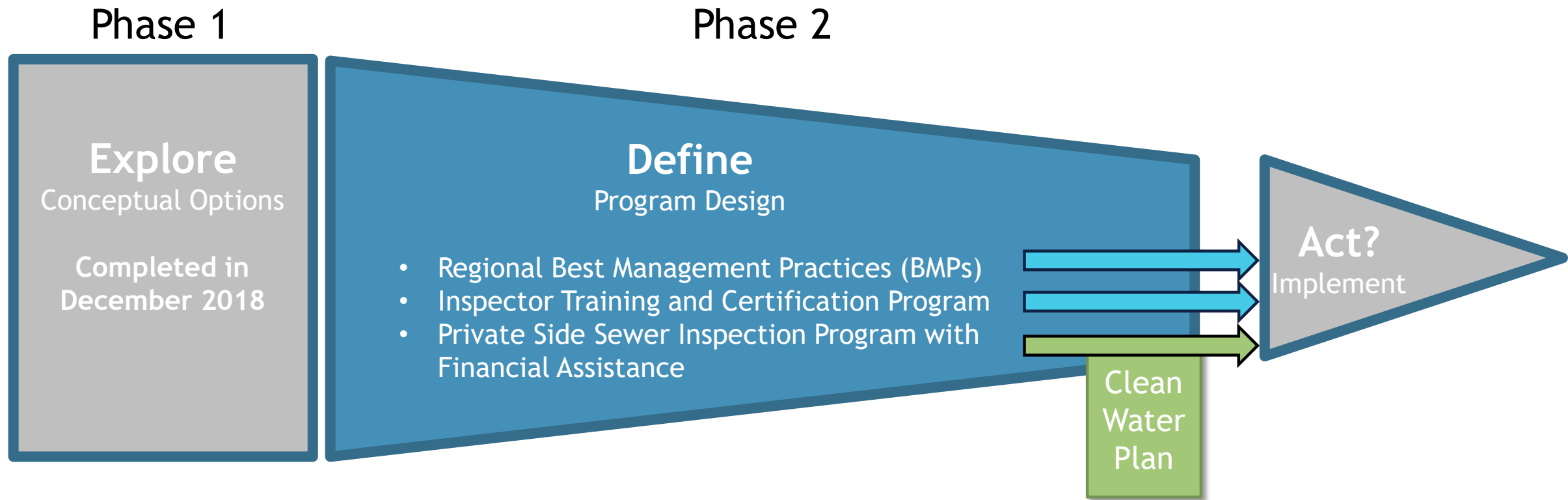
- Levels of I/I for each agency
- Pilot projects
- Model standards, procedures, policies and guidelines
- Cost-benefit analysis on cost effective I/I reduction

2006-2014

Implemented Program Plan recommendations

- I/I reduction feasibility analysis
- Skyway I/I reduction project

OVERVIEW OF CURRENT I/I WORK



RELATIONSHIP TO CLEAN WATER PLAN

- Clean Water Plan will set a strategy for water quality investments for 40 years.
 - Focus on water quality outcomes
 - Multiple programs across WTD and the County; includes I/I actions on [private side sewer inspection](#) and peak flow standards
 - Entire WTD service area
 - High investment level (billions)
- I/I Control Program work is focused on developing new programmatic elements of the Regional I/I Control Program that would reduce I/I in the regional system over decades.
 - Driven by reduction of capital improvement costs related to I/I and MWPAAC coordination
 - Single I/I program; includes two programs outside scope of Clean Water Plan i.e. [BMPs and inspector training](#) as well as one program in scope of Clean Water Plan i.e. [private side sewer inspection](#)
 - Separated system only
 - Lower investment level

PHASE 1: EXPLORE CONCEPTS - WORK COMPLETED

Purpose: Explore concepts for programmatic I/I reduction in the region and over decades.

Technical Reports on King County Regional I/I Control website

- [Verify 2004 King County Final Draft Regional I/I Control Standards, Procedures and Policies](#) , October 2017
- [Assessment of Existing Local Agency Sewer and Side Sewer Standards](#) , October 2017
- [Approach to Achieve Common Sewer and Side Sewer/Lateral Standards](#) , February 2019
- [Evaluation of Current Inspection Programs at Cities and Sewer Districts](#) , October 2017
- [Outline for a Standardized Regional Inspection Training Program](#) , February 2019
- [Private Side Sewer Program Identification and Relevance to the King County Wastewater Service Area](#) , April 2019
- [Private Side Sewer Program Evaluation Process](#) , April 2019

Resulted in MWPAAC recommending 3 concepts that moved into Phase 2.

PHASE 2: DEFINE PROGRAMS - WORK UNDERWAY

Draft technical reports are underway:

1. Regional Best Management Practices - draft report expected December 2020
 - [Draft List of Potential Regional Side Sewer Best Management Practices](#), July 2020
2. Inspector Training and Certification Program - draft report expected Q1 2021
3. Private Side Sewer Inspection Program with Financial Assistance Program - draft report expected Q1 2021

Phase 2 is expected to result in MWPAAC recommendation on regional implementation of side sewer BMPs and inspector training and certification program. No recommendation on side sewer inspection program is expected due to the need for further discussion.

UPCOMING TASK FORCE MEETINGS AND TOPICS THRU Q1 2021

Meeting- December 2020	Discussion of BMP technical memo and taskforce recommendation
Meeting- Q1 2021	Discussion of inspector training and certification program
Meeting- Q1 2021	Discussion of private side sewer inspection program with financial assistance

NEXT STEPS

Consultant team will continue technical work and will provide technical memos to the taskforce for consideration. Contingent on completing contract amendment.





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