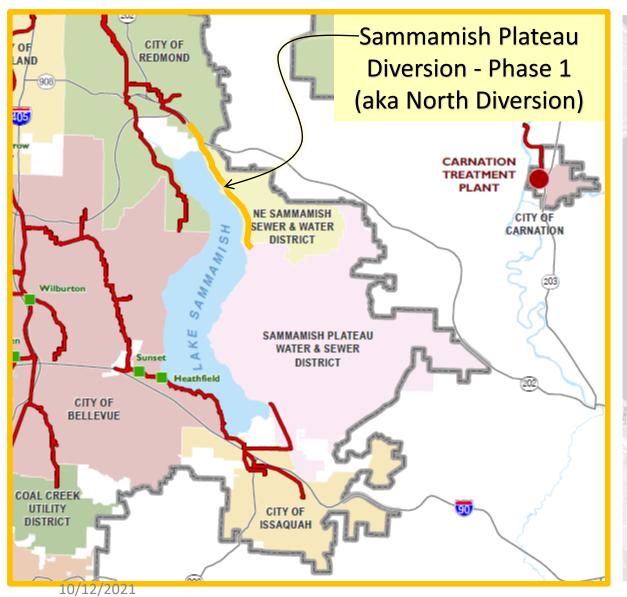
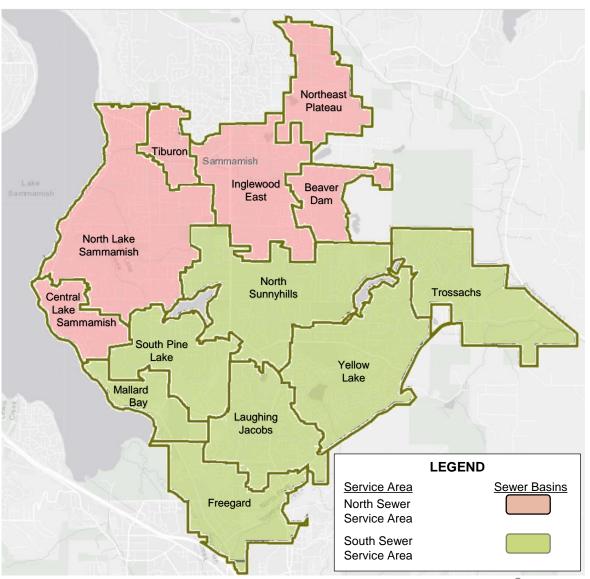


North Sewer Service Area Status Update City of Sammamish

Update from April 6, 2021 City Council Meeting

Sammamish Plateau Water – Impacted Sewer Basins





2

District Initiatives/Actions Since April 6, 2021 Meeting

Engaged Consulting Engineer (April 1, 2021):

- Evaluated Potential Immediate Improvements (July 20, 2021)
- Initiated Design of Interim/Permanent Improvements (April 1, 2021)
- Evaluated Infiltration & Inflow Sources and Abatement (October 4, 2021)

Moratorium Expired on August 24, 2021

District Conveyance System Interim Improvements

• February, 2023 **North Lake Lift Station Central Lake Force Main** • September, 2022 Inglewood Lift Station Phase 1: Capacity Increase **North Lake Lift Station** 1,388 ERUs **North Lake Force Main** • June, 2023 Central Lake Lift Station Phase 2: Capacity Increase 694 ERUs **North Lake Gravity Main** • 2023-2025 **Existing Facilities Gravity Main** North Sewer Phase 3: Capacity TBD Service Area Lift Station South Sewer **Based on Monitoring** Service Area Force Main

District Conveyance System Immediate Improvements

Inglewood Lift Station

• November, 2021

Operational Flow Reduction
Add Temporary Storage

North Lake Lift Station

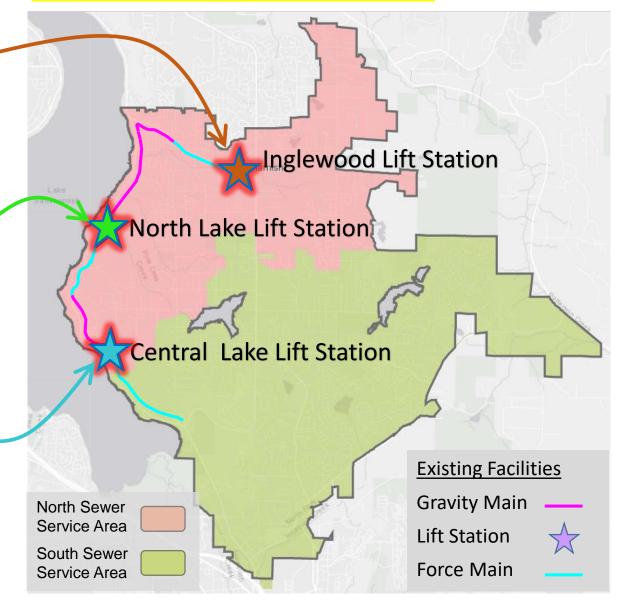
• November, 2021

Bypass Pump: Capacity Increase 694 ERUs

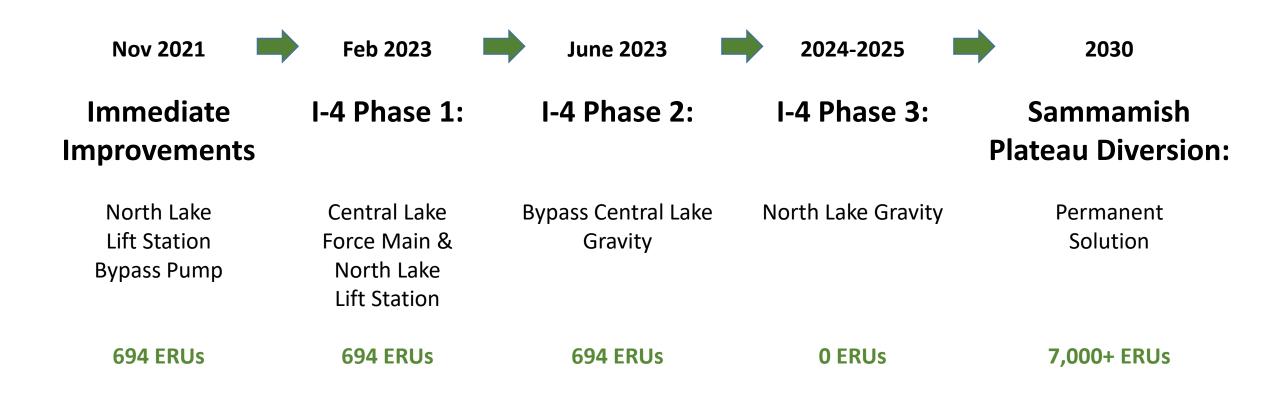
Central Lake Lift Station

November, 2021

Add Temporary Storage



Interim Phasing and Estimated ERU Capacity Immediate and I-4 Interim Improvements



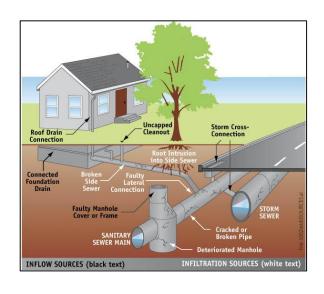
ERUs in the Certificate/DEA Pipeline

Estimated ERUs In the NSSA	Non-DEA Certificate (2021)	Complete (2021)	Construction Phase (2022)	Design Phase (2023)	Planning Phase (2024-2025)	Total Pipeline ERUs
Pipeline	22.0	17.0	82.0	22.0	245.0	388.0

Pipeline Customer Type	Non-DEA Certificate (2021)	Complete (2021)	Construction Phase (2022)	Design Phase (2023)	Planning Phase (2024-2025)	Total Pipeline ERUs
Single-Family	22.0	17.0	82.0	22.0	181.0	324.0
Multi-Family	0.0	0.0	0.0	0.0	32.0	32.0
Non-Residential	0.0	0.0	0.0	0.0	32.0	32.0
Total	22.0	17.0	82.0	22.0	245.0	388.0

As of 12/31/2020

Infiltration & Inflow (I&I) – Where Does It Come From?

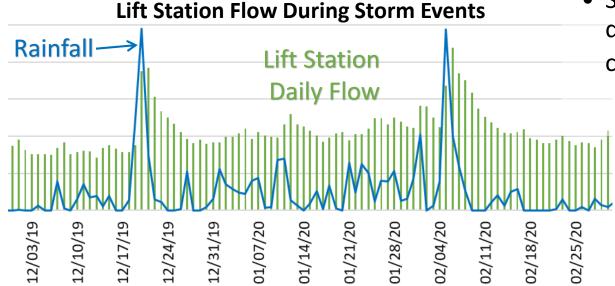


Infiltration

 Groundwater seeps into sewer pipes through holes, cracks, joint failures, and faulty connections.

Inflow

• Stormwater flows into sewers via roof drain downspouts, foundation drains, storm drain connections, and holes in manhole covers.



The District's capacity constraints occur during wet weather events.

Sammamish Plateau Water – Smoke Testing Internal I&I Investigation



16 Significant Contributors to Inflow

Following up with remaining 73 I&I Locations

19 District owned

39 Privately owned facilities

12 Other field observations to research

Repair of the 16 locations could equate to 174 ERUs

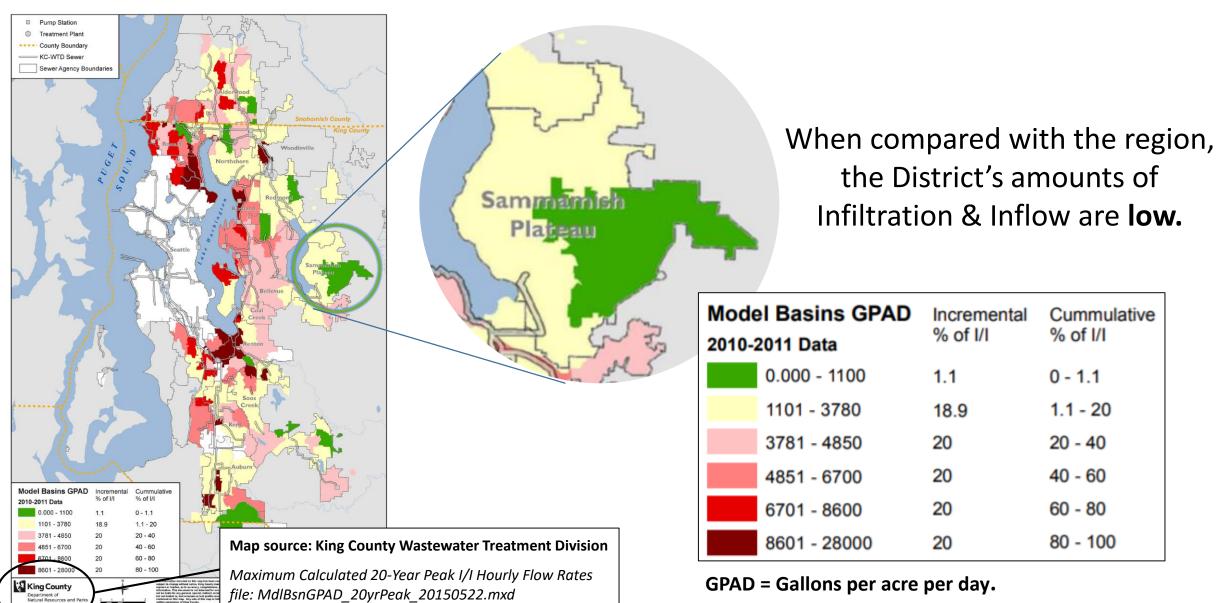


Yard & Footing Drains

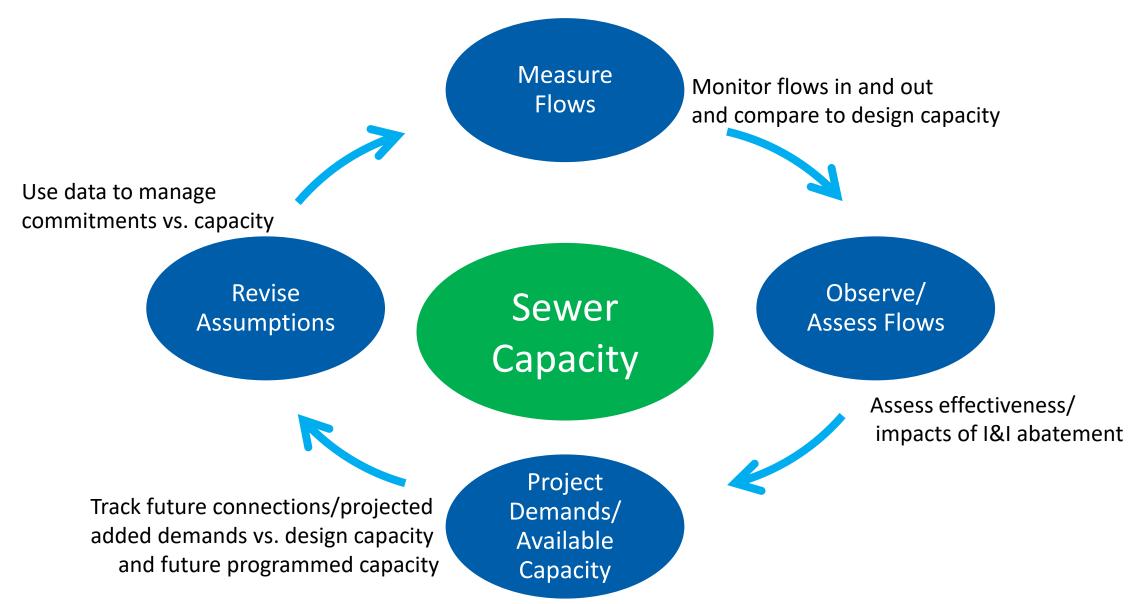
Roof & Gutter Connections



King County Regional Infiltration & Inflow (I&I)



SEWER METRICS



District Initiatives/Actions – Capacity Additions

District North Sewer Service Area

Immediate Improvements = 694 ERUs

Interim Improvements = 1,388 ERUs

Infiltration & Inflow Abatement = 174 ERUs

TOTAL = 2,256 ERUs

Citywide Growth Target: ??? Housing Units

King County Programmed
Sammamish Plateau Diversion – Phase 1
Capacity Improvements by 2030

