SANDY CLEAN WATERS PROGRAM UPDATE

Economic Development Advisory Board Meeting August 14, 2024



Agenda

- **►** Introduction
- Sandy Background
- Sandy Clean Waters Reinvestment Program
- Consent Decree/Stress Test/CAP
- Next Steps

Background

- ► City of Sandy -13,500 people
- ▶ Top Ten Growing Communities in Oregon
- Commercial Center East Clackamas County

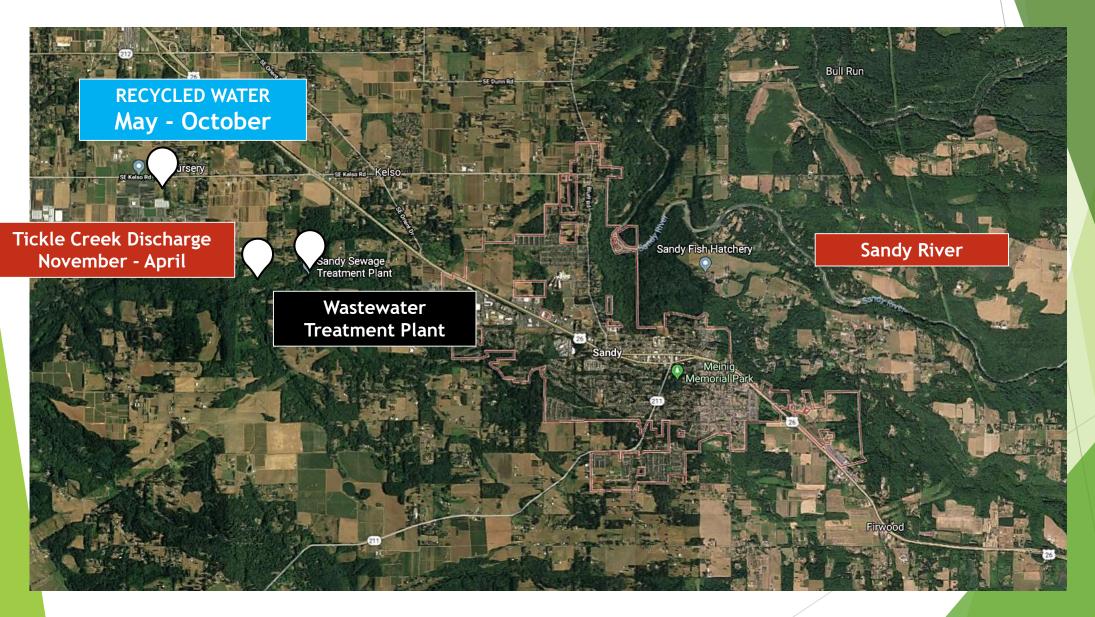


SANDY WILL DOUBLE ITS
POPULATION BY 2050 AND REACH
A POPULATION OF 29,180 BY 2070.
IT IS ESTIMATED TO ADD BETWEEN
2,000 AND 2,500 NEW JOBS AND
CLOSE TO 3,000 NEW PEOPLE BY
2043.

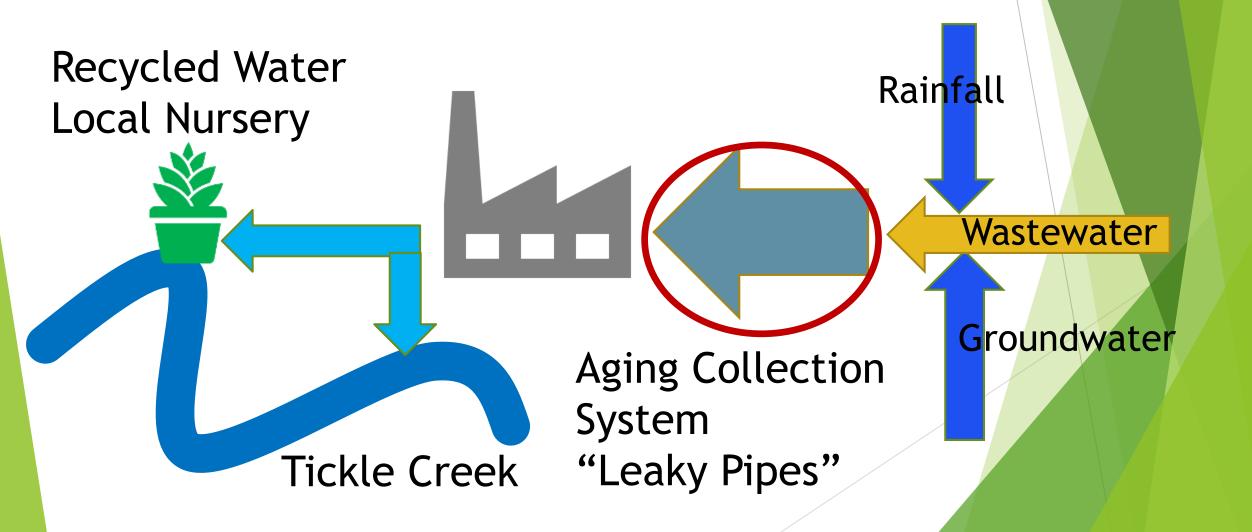




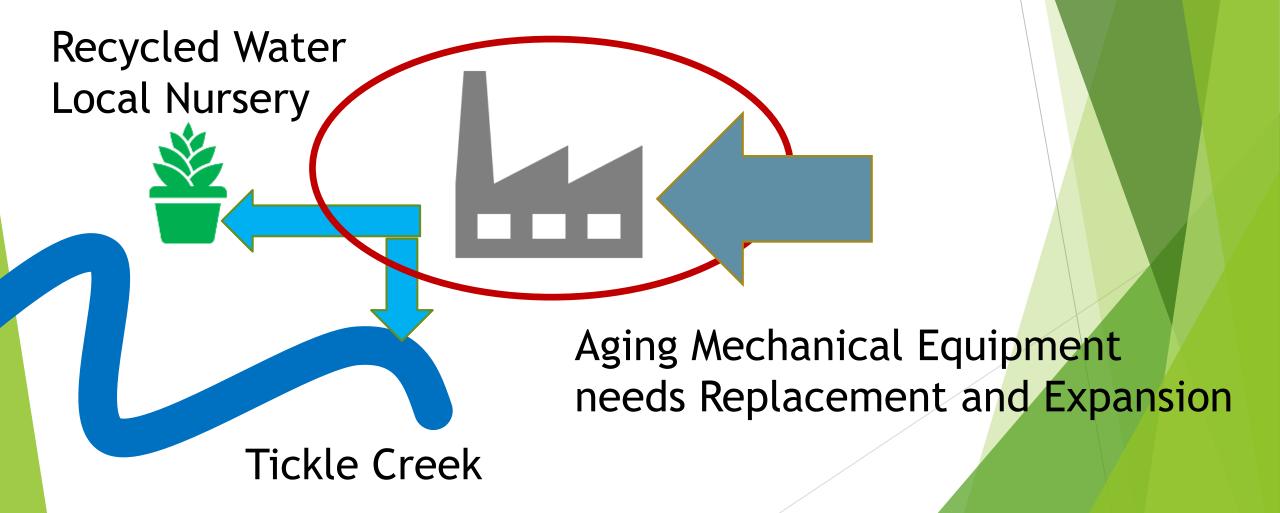
Existing Wastewater System



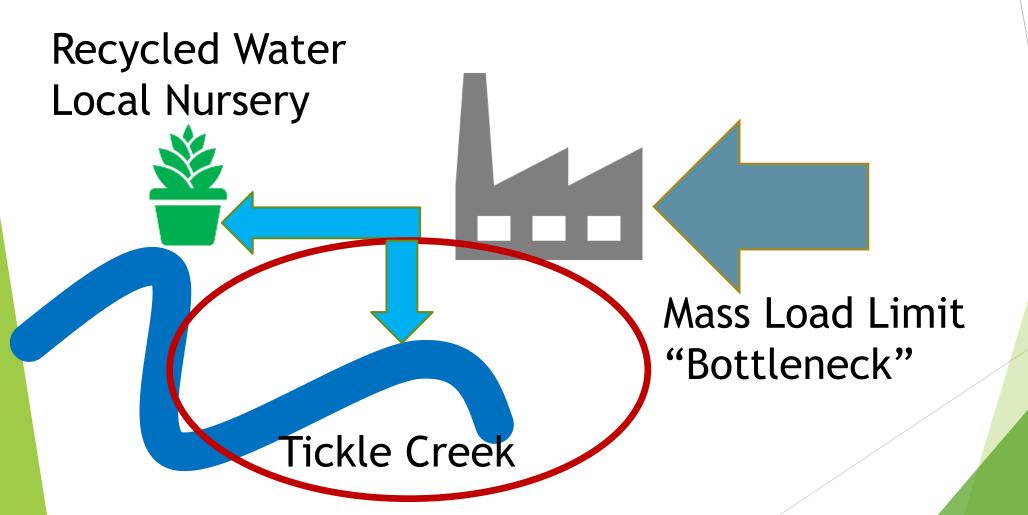
Challenge #1 - Collections System



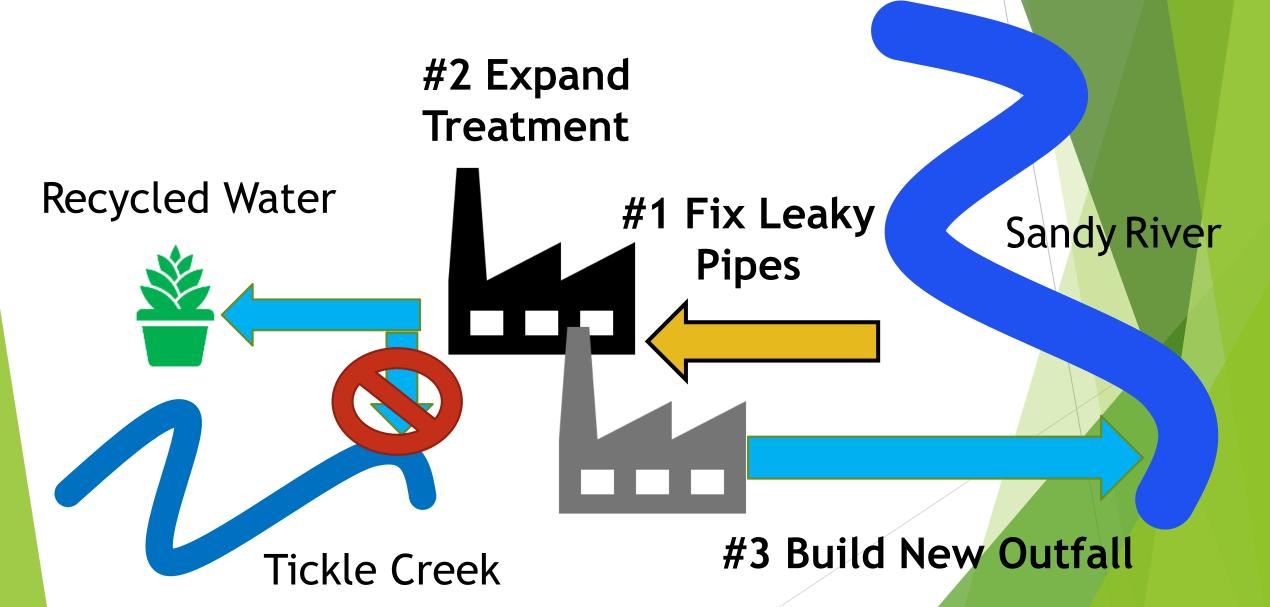
Challenge #2 – Treatment



Challenge #3 – Effluent Disposal

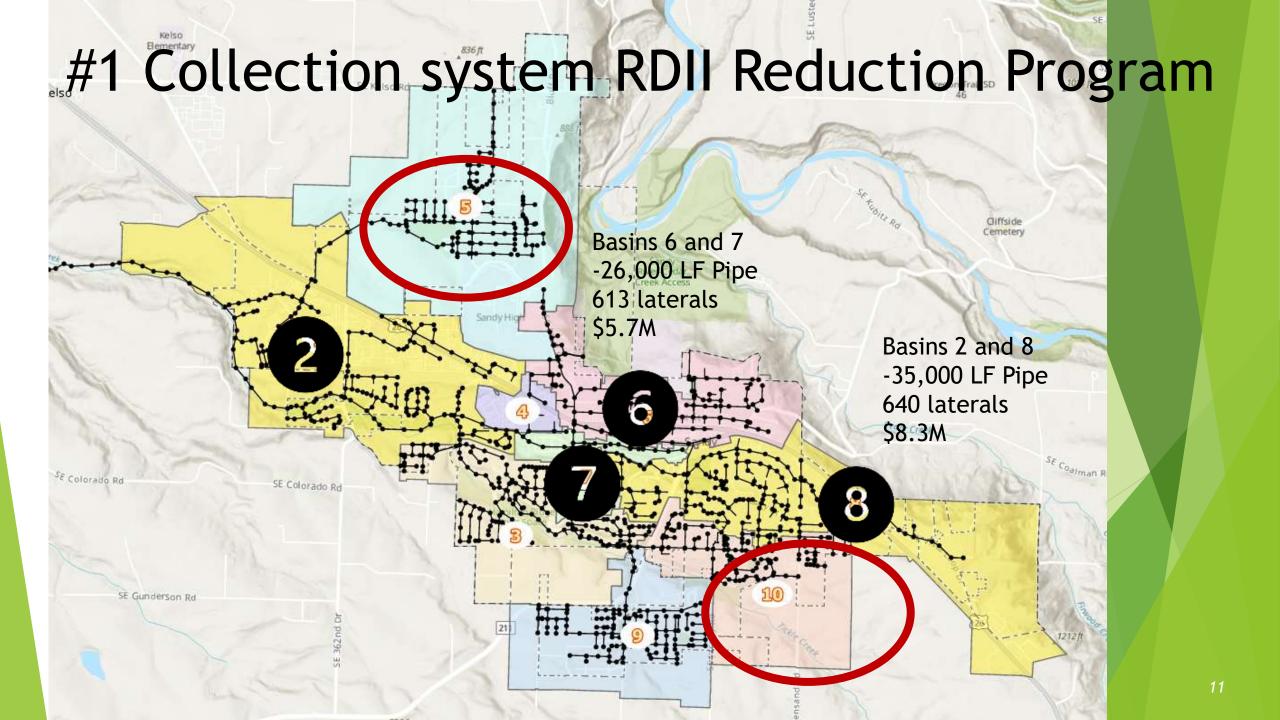


Three Step Plan



Phase 1A - 2019 Facility Plan Summary

- Rehabilitating Basins 2 and 8
- Equipment replacement at existing WWTP
- Plan for satellite wastewater treatment facility at Sunset Dr
- > \$85.3M (2019 dollars)



Collection System RDII Expected Results

- ► Basins 2 and 8 Anticipated reduction 2.0 MGD
- ► Basins 6 and 7 Anticipated reduction 1.2 MGD
- ► Total Peak Flow Reduction 3.2 MGD
- Model Validation Spring 2023
- **CMOM Program**
- Investigation of remaining basins by 2025

#2 Treatment Replacement and Expansion

- Immediate Needs Improvement Project
- Construction completion Feb 2023
- Stress Test of system Spring 2023
- Facility Plan Amendment
- Immediate additional equipment and \$200,000 RRM purchases for Stress test

Phase 1A - WWTP Improvements (2021 - 2023)

- Upgrading failing WWTP equipment
- Reconfiguration of secondary and tertiary treatment processes
- ▶ \$13.9M spent





Anticipated Results at WWTP

Construction Completion



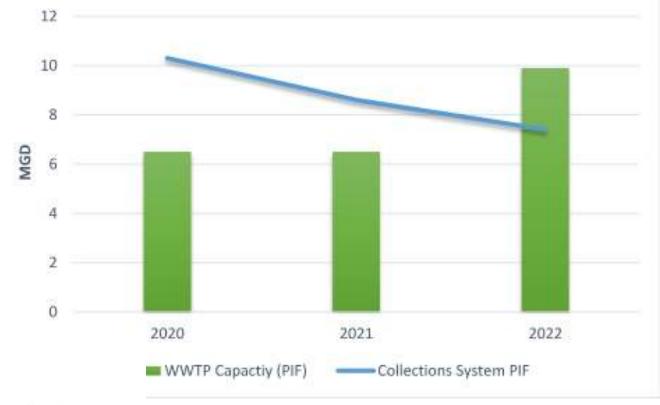


Table 4. Summary of WWTP Improvements Project Design Capacity

		Post-
	Pre-	Improvements
Design Loading	Improvements	(December 2022)
Maximum Monthly Dry Weather Flow (MMDWF)	1.25 MGD	1.5 MGD
laximum Monthly Wet Weather Flow (MMWWF)	1.85 MGD	1.9 MGD
Peak Day Flow (PDF)	3.7 MGD	5.5 MGD
Peak Instantaneous Flow (PIF)	6.5 MGD	9.9 MGD

Anticipated PIF comparison to WWTP PIF capacity.

#3 Permit Renewal

- Long-term Discharge Plan:
 - Maintain Tickle Creek Discharge

- Maintain Nursery Reuse
- ► Add Sandy River Discharge



Phase 1A - Summary

> \$30M+ spent

Element	2019 Facility Plan Budget	Spent (as of 12/31/2023)
I/I Reduction	\$11.8M	\$14.0M
Immediate WWTP Improvements	\$2.5M	\$13.9M
NPDES Permit Planning	\$0	\$800k

- No <u>flow-related</u> bypasses or permit violations since June 2022
- Available capacity in collection system and at WWTP
 - Some immediate bottlenecks to be addressed
 - Long-term improvements needed to handle future growth

What changed since the 2019 Facility Plan?

Less treatment capacity needed

14 MGD



More Leaky Pipes Fixed

Moratorium

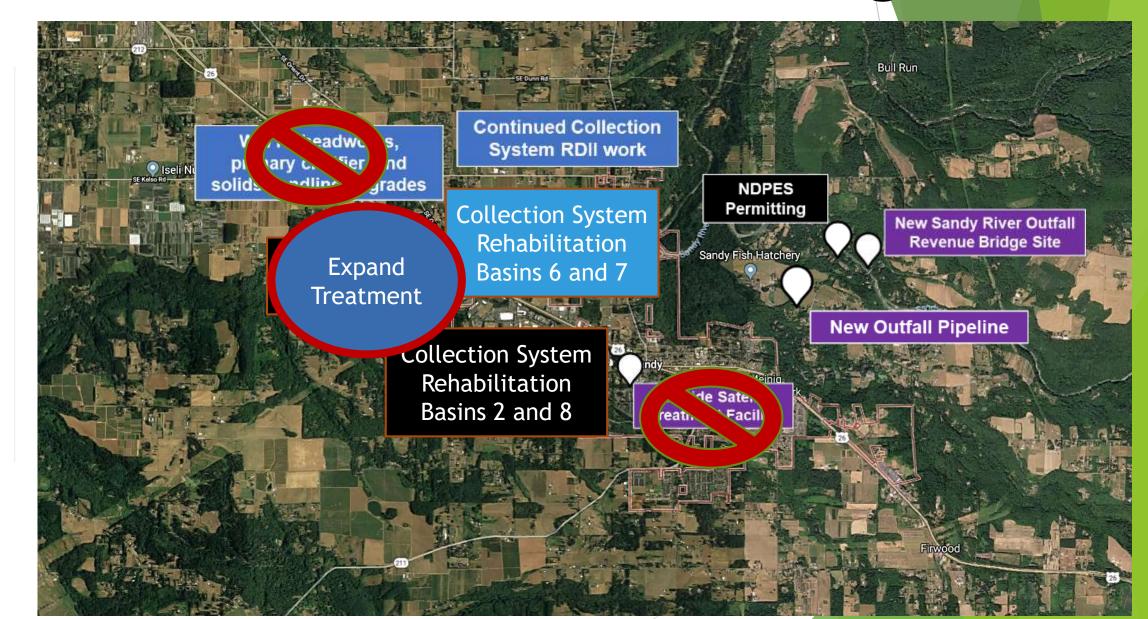
- ► The City negotiated a settlement with EPA
- Moratorium Adopted October 3, 2022
 - ► Development Services will not accept
 - applications for new sewer connections
 - After Stress Test Results switch to Capacity Assurance Program (CAP)
- June 3, 2024 CAP of 570 ERUS
 - ▶ Pathway to unlock 190 additional ERUs



EPA/DOJ Consent Decree Settlement

Status	Settlement	Element	Schedule
/	(I/I) Investigation and Corrective Measures (Phase 1A)	Basins 2&8, 6&7, repairs to cat 4 and 5 defects	Substantial March 2023
/	Existing Treatment Plant (Phase 1A)	Complete PDR recommendation & Stress Test	Construction Complete Sept 2023 Stress Test June2023
	Capacity Assurance Program (CAP)	Period 1 – Moratorium on new land use, ERUS issued Period 2: After stress test results Additional ERUs – up to 190	June 3, 2024 – Moratorium CAP raise to 570 ERUs In Progress additional ERUs
	Facility Plan Amendment	Submit permit for outfall or alt discharge Complete Facility Plan Amendment	In Progress
	CMOM Program	Develop and submit CMOM by March 2024	Complete
	Civil Penalties/SEP	Interim Clean Water Act Penalty Policy	Paid

Wastewater CIP - Potential Change?



Schedule

Additional Capacity

	1 . •	
	lection	1
LUI	IECLIOI	12

Treatment

Effluent Disposal

2,0, 0, 7
Complete Immediate
Needs Project

2020-2022

Rehab Basins

2867

Submit Sandy River Outfall Application

2023 - 2025

Investigate Basins 10, 1, 3, 4, 9

Facility Plan Amendment Design Phase 1B

Public Involvement, NEPA process,

2026 - 2028

CMOM

Construct Phase 1 B

Design, permitting, begin Construction

2029 - 2032

CMOM

Complete construction