

Discovery Clean Water Alliance

2020 Capital Plan Update

Presentation to:
**Development Engineering
Advisory Board**
July 9, 2020



Laying the foundation
for a **vibrant economy**
and **healthy environment**

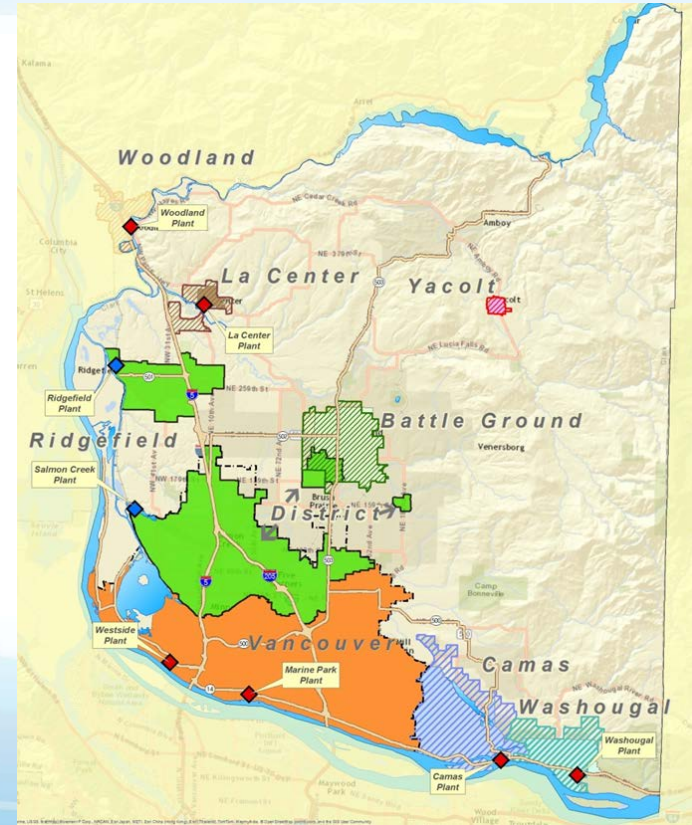


Introduction – District & Alliance

District Service Area



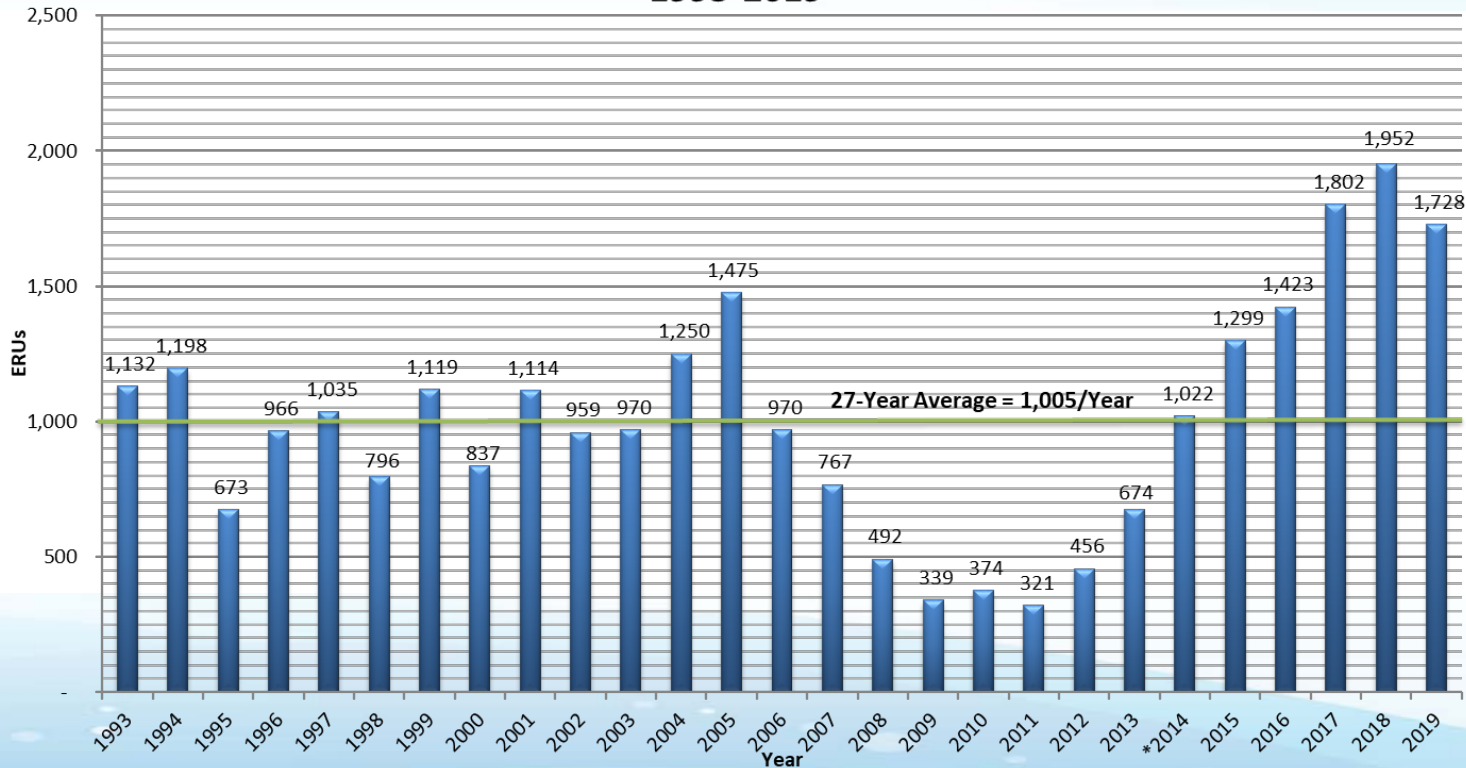
- Service areas include unincorporated areas of Clark County and portions of Ridgefield, Battle Ground & Vancouver
 - 62.25 employees
 - \$49M annual budget
 - 120,000+ people served
 - 710 miles of pipe, 72 pump stations; flows sent to Salmon Creek Treatment Plant, Ridgefield Treatment Plant, & Westside Treatment Plant
 - Serve majority of growth areas in Clark County
 - 25% +/- of County population
 - 50% +/- of County growth areas
- Battle Ground is an important partner



District Growth Patterns



**District Total New ERUs By Year
1993-2019**



Alliance Overview

- Regional Sewer Basics
 - Four agency partnership
 - Formed under Joint Municipal Utility Services Act – 39.106 RCW (new law – 2011)
 - District is managing partner – “Administrative Lead”
 - Member agencies
 - Clark Regional Wastewater District
 - Clark County
 - City of Battle Ground
 - City of Ridgefield



Shane Bowman
Alliance Board Chair
Battle Ground Councilmember



Ron Onslow
Alliance Vice-Chair
Ridgefield Mayor



Julie Olson
Alliance Secretary
Clark County Councilor

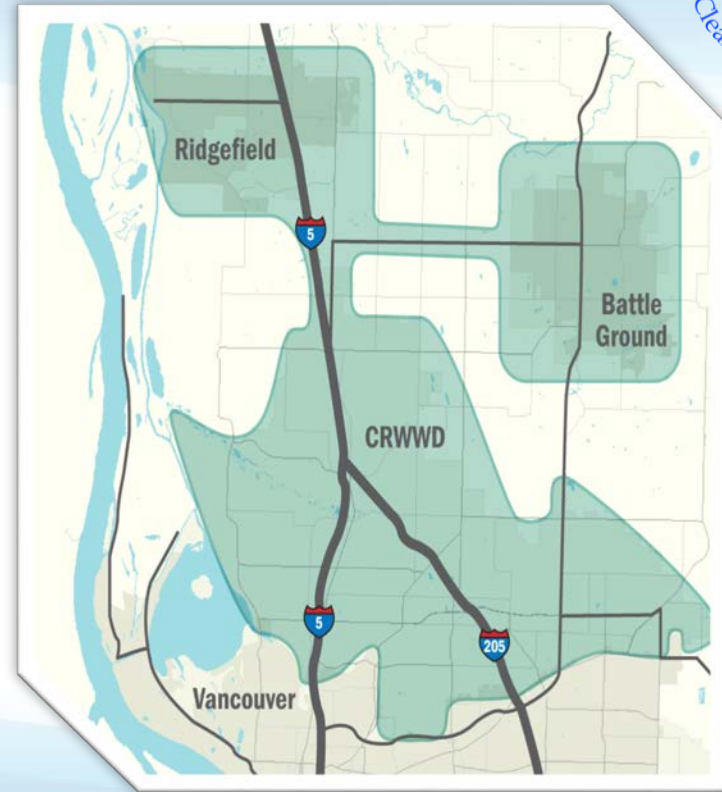


Norm Harker
Alliance Director
District Commissioner

Alliance Overview



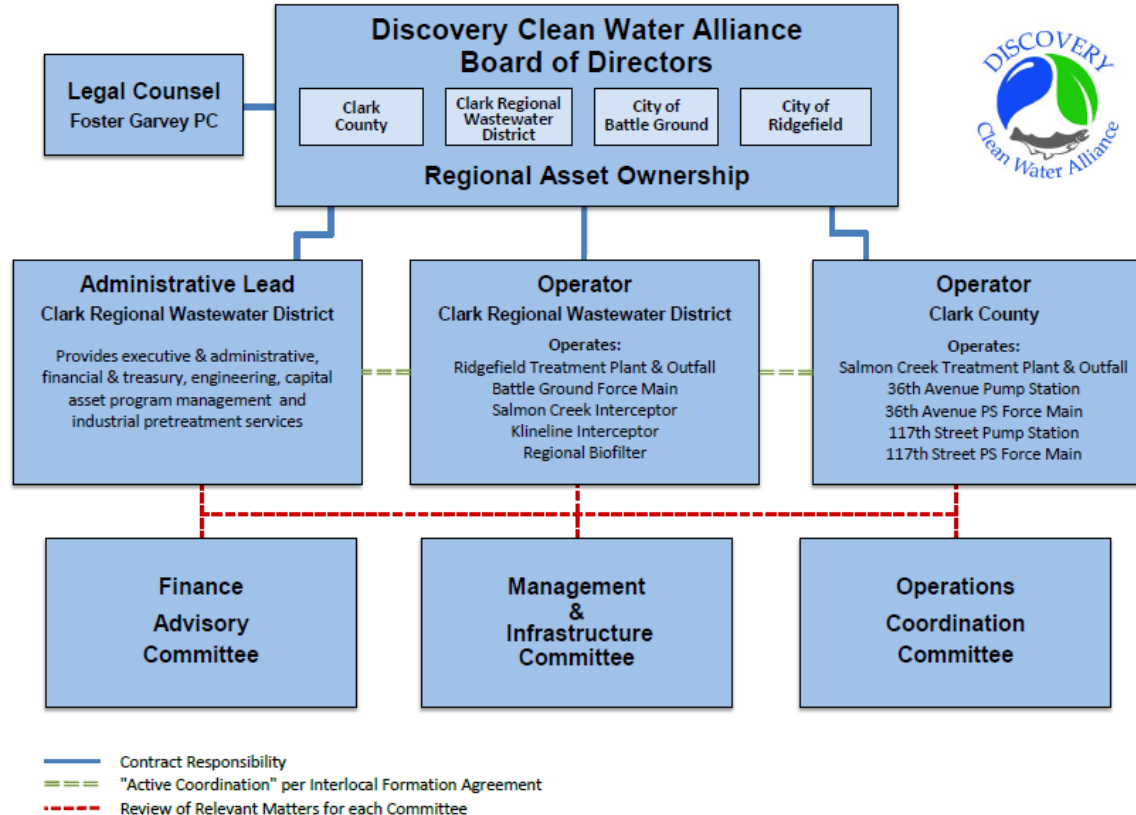
- Regional Sewer Basics
 - Emphasis on treatment
 - Major cost center
 - Specialized expertise
 - Serves multiple UGAs
 - Best managed under regional framework
 - Key assets
 - Ridgefield, Salmon Creek treatment plants
 - Major pipelines/pump stations



Alliance Business Model



Alliance Corporate and Functional Structure





Alliance Capital Plan Update - 2020

Alliance Capital Plan



- Asset Management for Existing Assets
- Capacity Management for New Assets
- Completed Every Two Years
- Supports the 2021-2022 Capital Budget Process



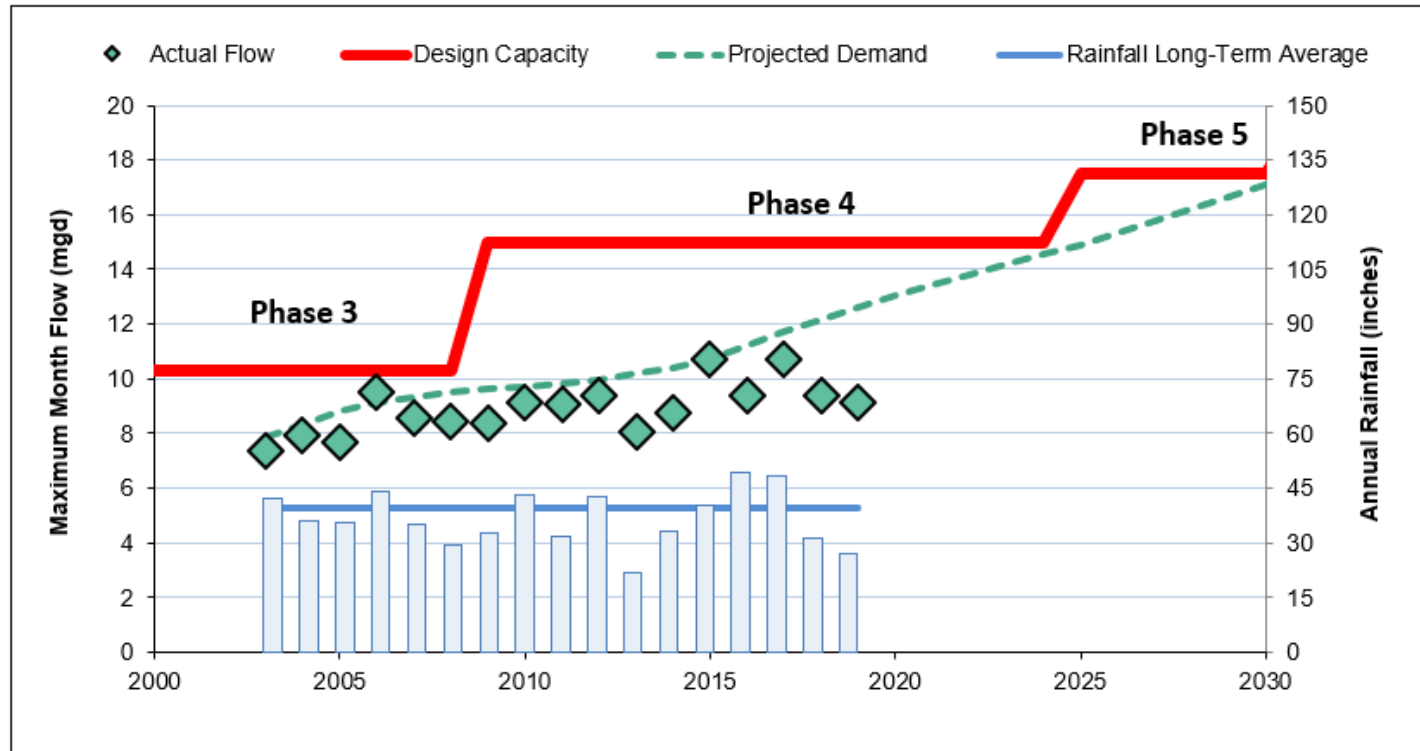
Capacity Management



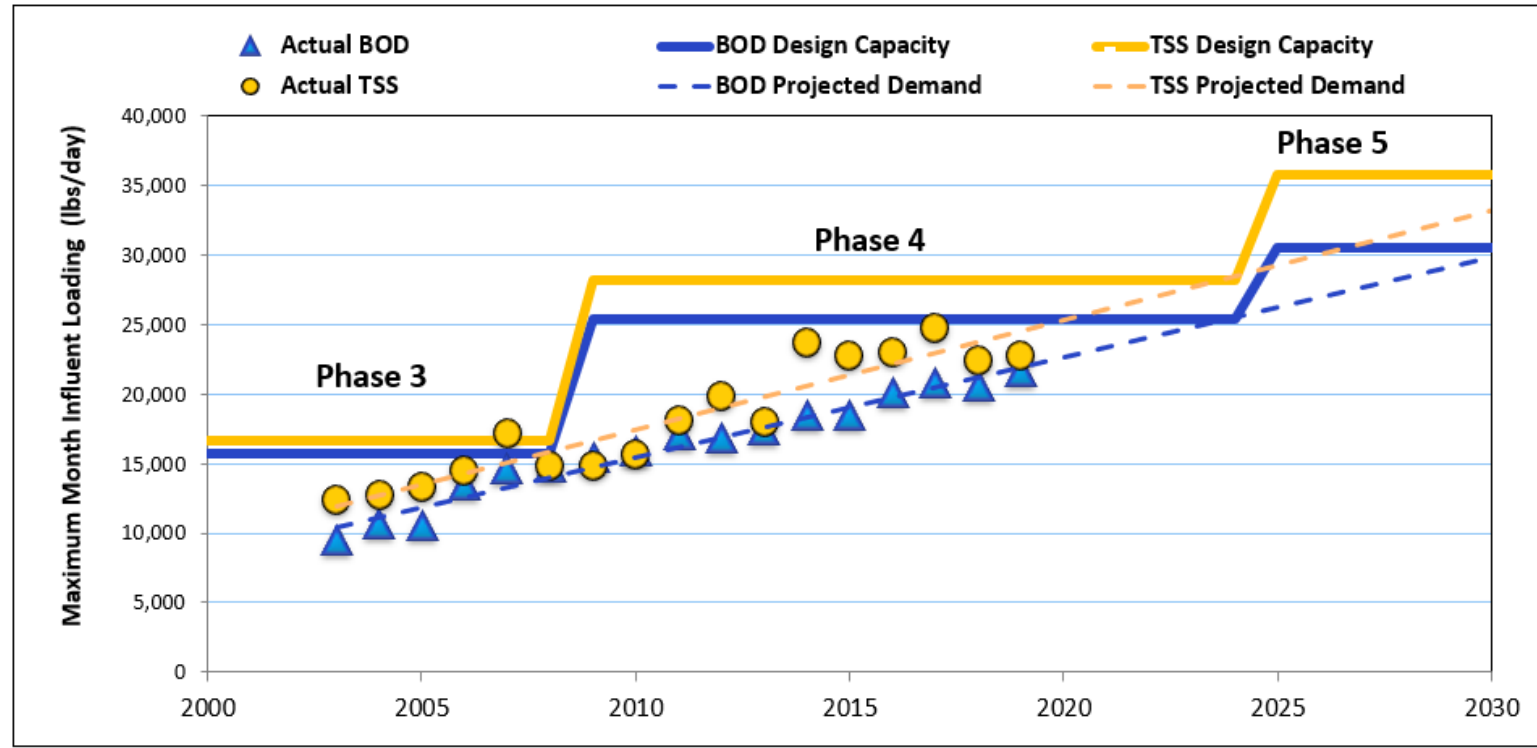
Salmon Creek Treatment Plant

- Primary Regional Asset
- Limiting capacity element in regional system
- Approaching capacity
- Facility expanded 4 times in 40 years
- Currently working on Phase 5 expansion

Capacity Management



Capacity Management



Capacity Management

- Capacity is needed in the regional system by 2025
- Currently Working on Phase 5 Expansion
 - Work Began in 2015
 - Planned Completion 2024



Phase 5 Expansion Program



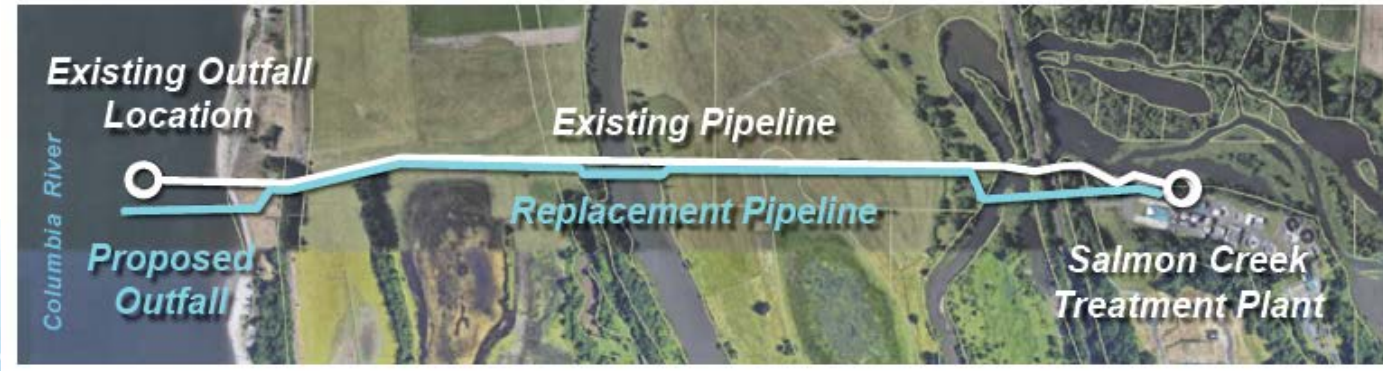
- Phase 5A Project – Columbia River Outfall and Effluent Pipeline
- Phase 5B Project – Salmon Creek Treatment Plant Improvements
- Increases Plant Capacity from 14.95 to 17.50 mgd
- Total Program Costs \$55.1M



Phase 5A – Columbia River Outfall and Effluent Pipeline



- \$26.4M project
- Comprehensive local/state/federal permitting
- Easements – Curtis Lake Ranch, New Columbia Garden Company
- Design – new 48-inch pipeline with work in Salmon Creek, Lake River, Columbia River (likely two construction packages)



Phase 5A - Columbia River Outfall and Effluent Pipeline - Permitting



31 Total Permits Required: 7 issued, 19 submitted, and 5 yet to be submitted

Local (9 permits)



State Environmental Policy Act



Flood Hazard



Shoreline Conditional Use



Land Use Conditional Use



Grading and Drainage



Railroad Crossing (4)

State (10 permits)



Ecology Temporary Water Right (2)



Ecology Engineering Report



Water Quality Certification Section 401



Hydraulic Project Approval



Aquatic Lands Easement



Aquatic Lands Right of Entry



Utility Crossing



NPDES Construction Stormwater Discharge (2)

Federal (12 permits/notifications)



Clean Water Act Section 404



Rivers & Harbors Act Section 10



National Historic Preservation Act



Endangered Species Act



Endangered Species Act/MSA



Underwater Utility/Outfall Notification



Private Aids to Navigation



Buoy Placement (2)



Marine Safety Zone (2)

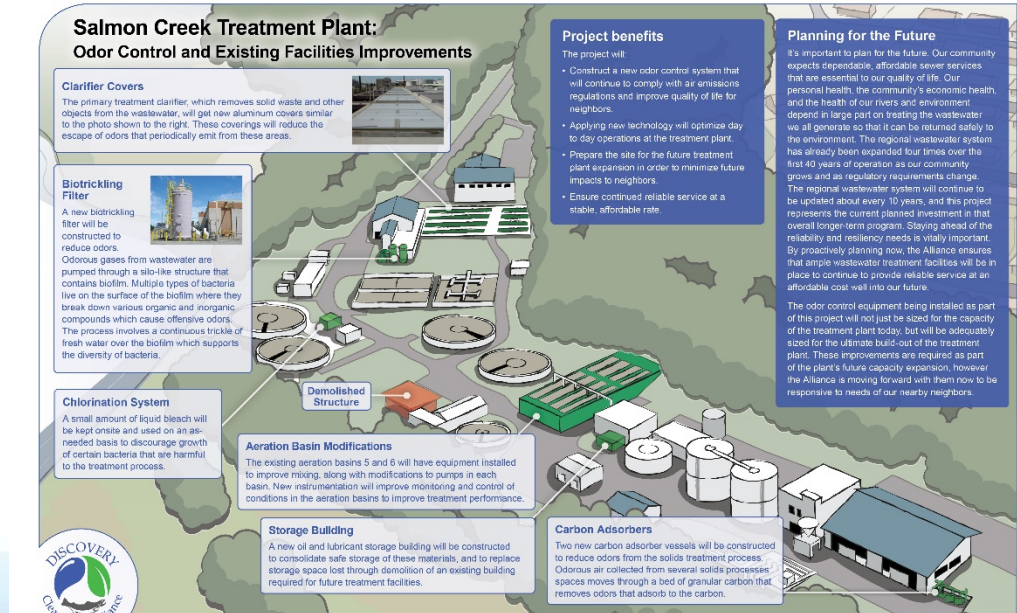


Local Notice to Mariners

Phase 5B: Package 1 – Odor Control and Existing Facilities Improvements



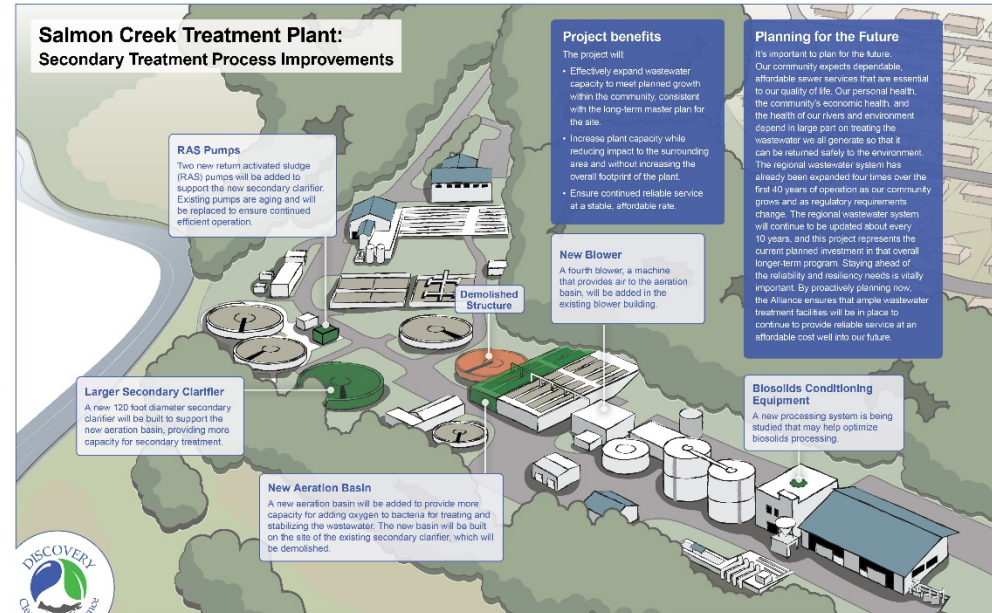
- \$10.0M project starting construction
- Five R&R projects included for efficient delivery
- Construction scheduled for 2020-2021 with goal to have odor control systems in place by early 2021



Phase 5B: Package 2 – Secondary Treatment Process Improvements



- \$18.7M project at 30% design
- Engineering Report scheduled for submittal to Ecology in Q4 2020
- Construction scheduled for 2022-2024



Phase 5 Expansion Program



- State and Federal Permitting Ongoing
 - Project specific permits
- State and Federal Regulatory Processes
 - Columbia River status – 303(d) list
 - Current impairment for DO
 - Working with Vancouver to address
 - TMDL for temperature in Columbia and Lower Snake Rivers issued



Phase 5 Expansion Program



Salmon Creek Treatment Plant (SCTP) Phase 5 Program Delivery Timeline

Program	2019	2020	2021	2022	2023	2024
Columbia River Water Quality Monitoring Program 	Field Sampling (second year) Data Submittal	Regulatory Review & Determination	Regulatory Approval			
SCTP Improvements PACKAGE 1 <ul style="list-style-type: none"> Existing Facilities Odor Control 	Permitting Design	Construction				
Columbia River Outfall & Effluent Pipeline PACKAGE 1 <ul style="list-style-type: none"> Columbia River Outfall Columbia River Shoreline Work 	Design Permitting Easements		Construction			
Columbia River Outfall & Effluent Pipeline PACKAGE 2 <ul style="list-style-type: none"> Columbia River to SCTP Pipeline Creek/River/Railroad Crossings 	Design Permitting Easements			Construction		
SCTP Improvements PACKAGE 2 <ul style="list-style-type: none"> Secondary Treatment Process Improvements Site Security 	Planning Permitting Design			Construction		

Questions



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Discovery Clean Water Alliance

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Clark Regional Wastewater District

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For more information, and to view the
Alliance Capital Plan, visit www.DiscoveryCWA.org