

# Discovery Clean Water Alliance Salmon Creek Treatment Plant Second Annual Open House Summary Report

## Public Outreach Overview

In June 2018, the Discovery Clean Water Alliance hosted an open house to share information with area neighbors about the Salmon Creek Treatment Plant operations, future improvements, and to meet and get to know District and County staff. Input was gathered from the meeting participants by staff as they visited at information stations.

## Outreach Method

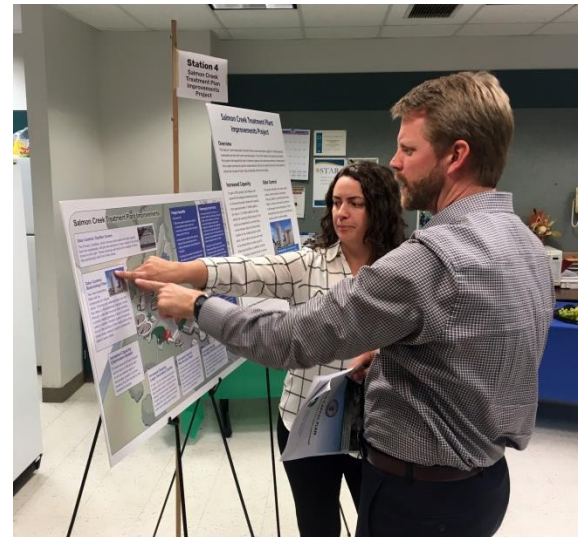
Community members were invited to attend the open house via a postcard mailing sent to over 400 area residents on May 17. Additional stakeholders were invited through an email sent June 1.

## Open House

The open house for the Salmon Creek Treatment Plant was held on Tuesday, June 5th from 6:00 to 7:30 p.m. at the Treatment Plant, located at 15100 Northwest McCann Road. Approximately 18 people attended, as well as staff from the District, Clark County and the consultant team.

The meeting format was an informal meet-and-greet with staff stationed at informational displays to answer questions and talk with neighbors. Attendees were invited to participate in an abbreviated tour of the facility with staff. Three groups toured the facility at different times: 6:10, 6:30 and 6:50 p.m.

*The informational displays are attached in Appendix A.*



Neighbors visit with staff at informational displays to learn about the treatment plant functions, future projects and provide input.

Participants were also encouraged to complete written comment cards.



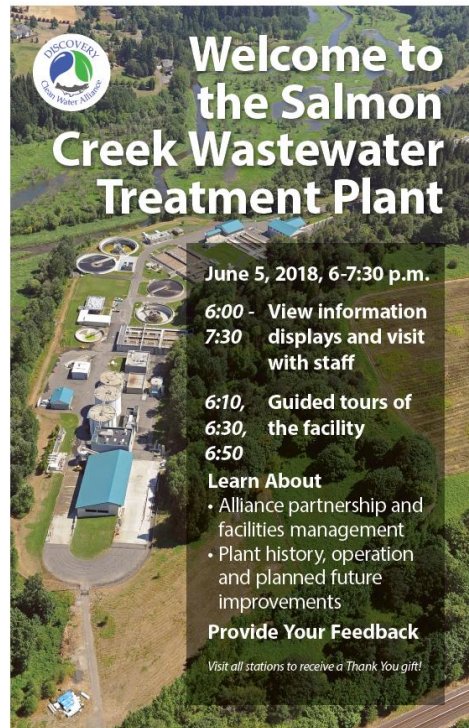
Neighbors participated in tours of the treatment plant with District staff.

## Summary of Public Input

### *Overall*

Neighbors in attendance were appreciative of the opportunity to learn about the Salmon Creek Treatment Plant and were receptive to the information and the format it was provided in. A few residents shared concerns about being able to hear fans or other continuous operation systems from the plant. There was interest expressed by many in attendance in seeing the odor control improvements implemented as soon as possible. A suggestion was made by one neighbor to promote participation at the meeting by installing temporary signage in the neighborhood a few days before the next open house. Some neighbors commented that they were impressed by the Alliance's efforts to recycle and reuse materials, such as using the biosolids for fertilizer.

# Appendix A – Informational Displays



## Station 1: Discovery Clean Water Alliance Partnership

**Discovery Clean Water Alliance**

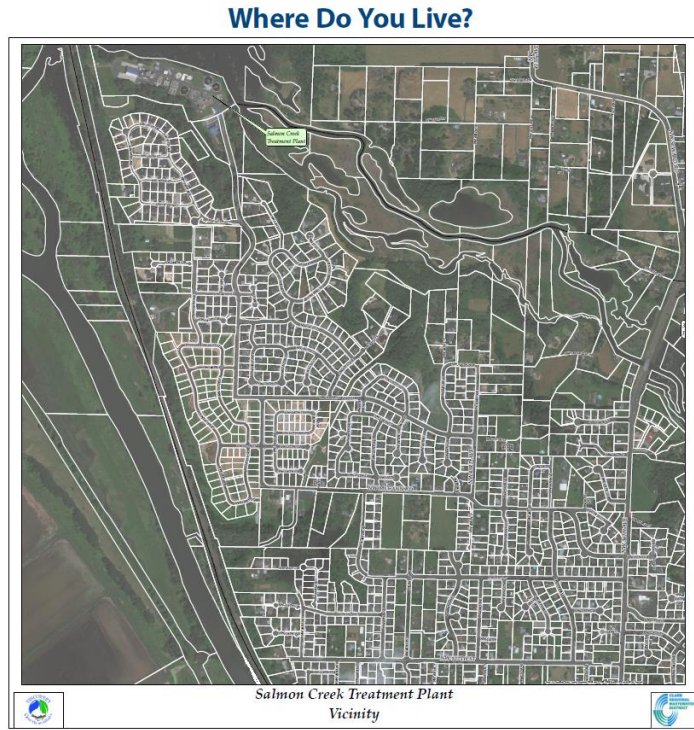
The Alliance is a regional partnership created to improve sewer service delivery through joint ownership and management of regional wastewater assets.

**Members**

- City of Battle Ground
- City of Ridgefield
- Clark County
- Clark Regional Wastewater District

**Service Area Assets**

- Gravity interceptors
- Pump stations
- Force mains
- Treatment plants



## Station 2: What Happens at the Treatment Plant

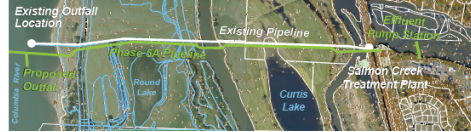


# Station 3: Columbia River Outfall and Effluent Pipeline Project

## Columbia River Outfall and Effluent Pipeline Project

### Overview

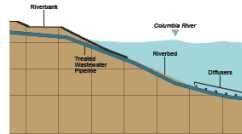
Through an existing 30-inch pipeline and diffuser, built in 1974, clean water, or effluent, is conveyed and discharged into the Columbia River. This project will build a new, 48-inch pipeline between the Salmon Creek Wastewater Treatment Plant and the Columbia River, as well as an improved discharge assembly at the river.



### Benefits

- ◊ Ensure continued reliable service at a stable, affordable rate by planning for the long term and coordinating with other projects.
- ◊ Support planned growth within the community.
- ◊ Ensure adequate mixing and dilution of treated wastewater discharged into the Columbia River.
- ◊ Manage shoreline stability at the discharge point.
- ◊ Enable future decommissioning of Ridgefield's aging wastewater treatment plant and outfall into Lake River.

### Diffuser



An improved diffuser will ensure that discharge of treated water is mixed and diluted efficiently and will meet water quality standards.

### Timeline

	2015	2016	2017	2018	2019	2020	2021	2022
Planning and Preliminary Design								
Permitting and Easement								
Final Design, Bidding and Construction								

# Station 4: Salmon Creek Treatment Plant Improvements Project

## Salmon Creek Treatment Plant Improvements Project

### Overview

The Salmon Creek Wastewater Treatment Plant receives and treats roughly 8-10 million gallons of wastewater per day from homes and businesses. To meet the needs of our growing community, this project will expand the plant's treatment capacity and make improvements to several areas of the in-plant mechanical systems. Improvements will also be made to the odor control systems to reduce the escape of odors that periodically emit from the facility.

### Increased Capacity

As part of this project, the Alliance will expand the biological treatment process to increase the plant's treatment capacity from approximately 15 million gallons per day to 17.5 million gallons per day within the existing facility footprint. This will be accomplished by constructing a new Aeration Basin and Secondary Clarifier in the middle portion of the plant. Some older structures will need to be demolished to make space for these new facilities. In addition to these new structures, improvements to several mechanical pumping and air supply systems will be made inside existing buildings.

### Odor Control

This project will add a new odor control system, which involves covering the Primary Clarifiers and adding biotrickling filters to collect and treat the air before it is discharged into the atmosphere. These methods have been proven very effective in reducing odors at other facilities.



**Biotrickling Filter:** This silo-like structure contains a biofilm which is home to multiple types of bacteria. A continuous trickle of fresh water supports the diversity of bacteria, and helps them break down various compounds which can cause odors.

### Timeline

	2017	2018	2019	2020	2021	2022
Current Phase: Planning and Preliminary Design						
Permitting						
Final Design, Bidding and Construction						

★ Early milestone for odor control system.

# Salmon Creek Treatment Plant Improvements

## Odor Control: Clarifier Covers

The Primary Clarifiers, which remove solid waste and other objects from the wastewater, will get new aluminum covers similar to the photo shown to the right. These coverings will reduce the escape of odors that periodically emit from these areas.



## Odor Control: Biotrickling Filter

Two new biotrickling filters will be constructed to reduce odors. Odorous air collected from the first two steps in the treatment process moves through a silo-like structure that contains a plastic media growing a layer of bacteria called a biofilm. Multiple types of bacteria live on the surface of the media where they break down various organic compounds which cause odors.



## Increased Capacity: Chlorination System

A small amount of liquid bleach will be kept on site and used on an as-needed basis to discourage growth of certain bacteria that are harmful to the treatment process.

## Increased Capacity: Larger Secondary Clarifier

A new 120 foot diameter secondary clarifier will be built to support the new aeration basin, providing more capacity for secondary treatment. A small building will be demolished to allow the new clarifier to be built within the existing plant footprint.

## Increased Capacity: New Aeration Basin

A new aeration basin will be added to provide more capacity for adding oxygen to bacteria that are treating and stabilizing the wastewater. The new basin will be built on the site of the existing secondary clarifier, which will be demolished.

## Increased Capacity: Biosolids Conditioning Equipment

A new processing system will be added that will help make the final biosolids product drier, which will reduce the number of truck trips required through the neighborhood by about 10 percent.

## Project benefits

The project will:

- Effectively expand wastewater capacity to meet planned growth within the community, consistent with the long-term master plan for the site.
- Increase plant capacity while reducing impact to the surrounding area and without increasing the overall footprint of the plant.
- Construct a new odor control system that will continue to comply with air emissions regulations and improve quality of life for neighbors.
- Ensure continued reliable service at a stable, affordable rate.

## Planning for the Future

It's important to plan for the future. Our personal health, the community's economic health, and the health of our rivers and environment depend in large part on treating the wastewater we all generate so that it can be returned safely to the environment. As our community grows, we continue to make investments to ensure our system adequately meets our needs.

The Salmon Creek Treatment Plant Improvements Project is part of the Phase 5 expansion program, a planned future investment which will build on four previous expansions over the past 40 years. The Phase 5 expansion will take place over several years and will be performed as two separate and independent projects. In addition to this project, Phase 5 also includes the Columbia River Outfall and Effluent Pipeline Project, which will add a new transmission pipe and discharge mechanism from the plant to the Columbia River. You can read more about how this project will improve our water quality at [www.discoverycwa.org](http://www.discoverycwa.org).

Staying ahead of reliability and resiliency needs is vitally important. By proactively planning now, the Alliance ensures that ample wastewater treatment facilities can provide reliable service at an affordable rate well into our future.



## Appendix B – Event Program

# Salmon Creek Treatment Plant Neighborhood Open House

June 5, 2018

### Welcome to the Salmon Creek Treatment Plant!

This regional facility is critical to safeguarding public and environmental health, as well as providing for our community's economic future. Thank you for joining us tonight for an opportunity to meet our staff and explore this important regional facility. Visit the stations to learn about:

- The regional partnership, **Discovery Clean Water Alliance**, that owns and operates the treatment plant and how decisions are made about the facility. *(Station 1)*
- The great care we take in operating our facility in a safe, reliable, and cost-effective manner and our ongoing commitment to being a good neighbor. *(Station 2)*
- Our planned future projects to reduce periodic odors, increase treatment capacity, and protect our natural environment and water quality in the Columbia River. *(Stations 3 & 4)*

### A Gift from Us to You

To make the most of your time this evening, visit every station and participate in a guided tour of the facility to receive an appreciation gift from us! Just ask us to initial the boxes below at each information station and following the tour. To pick up your gift, be sure to show us your completed checklist before you leave.

Station 1: Discovery Clean Water Alliance Partnership

Station 2: What Happens at the Treatment Plant

Station 3: Columbia River Outfall and Effluent Pipeline Project

Station 4: Salmon Creek Treatment Plant Improvements Project

Guided Tour of the Facility

### Stay in Touch

Please visit our website at [www.discoverycwa.org](http://www.discoverycwa.org) for more information and to sign up for our quarterly e-mail updates. You can also fill out a comment card to let us know what you are interested in about the facility or about future projects.

*We appreciate your interest in the Salmon Creek Treatment Plant. Thanks again for taking the time to meet our staff and learn more about this important regional facility.*

Visit us online at [www.discoverycwa.org](http://www.discoverycwa.org)

