

# City of Oak Harbor Clean Water Facility Project



## Clean Water Facility starts operation in September

*We are excited to announce* starting in September 2018 when you flush your toilet, take a shower, or wash your dishes in Oak Harbor, drained water will go directly to the new Oak Harbor Clean Water Facility!

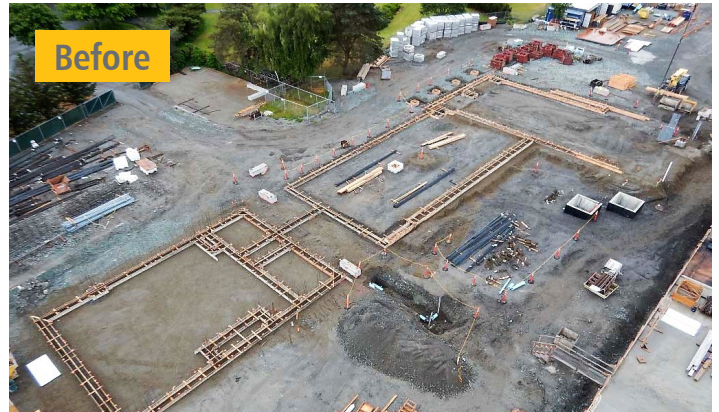


The facility coming online will mark a year of many milestones that included construction completion of all 11 buildings and turning on the power to the facility for the first time.

More work is ahead over the next few months, including:

- Demolition of the former Whidbey Island Bank building
- Working on Windjammer Park improvements
- Testing the system to bring the facility online
- Ribbon cutting in fall 2018 to celebrate the new facility

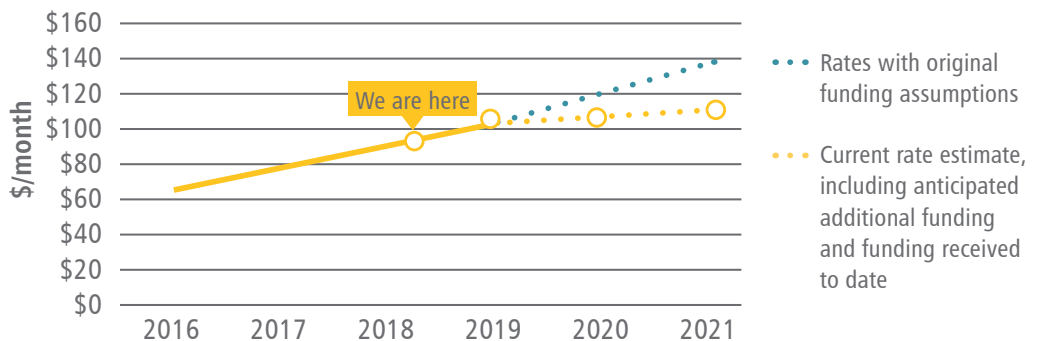
We appreciate your patience as we work to complete construction. More information will be available on our website and through project email updates as September nears.



Look how far we've come! Before and after view of the maintenance and administration buildings at the new Oak Harbor Clean Water Facility.

### Project rates continue to meet projections

With the Clean Water Facility Project nearing completion, the projected sewer rates through 2021 are the same, or lower, as the project projected in 2016. Successful applications for state and federal funding also means the City has been able to reduce 2020 and 2021 rate projections.

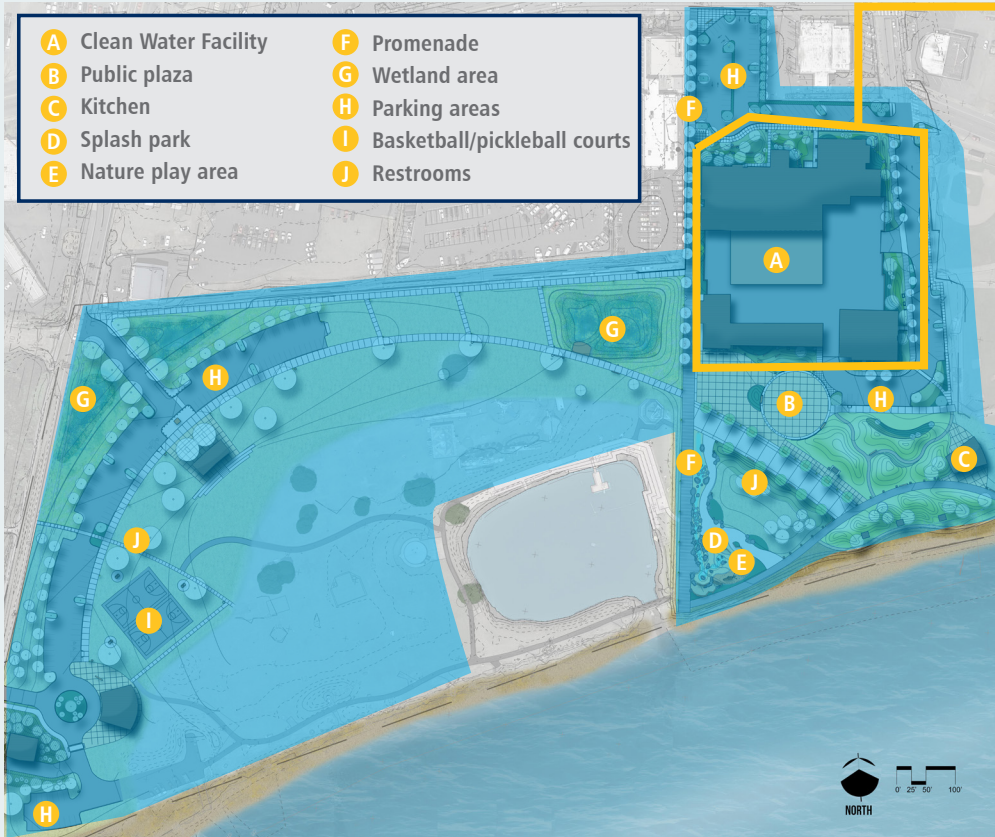


# Take a tour of our future Windjammer Park!

## Walk through your new park

Siting the Clean Water Facility in Windjammer Park presented a unique opportunity to develop a long-term plan for the park, integrating existing and new elements into this special community space. Construction on Phase 1 park improvements began in mid-May. Phase 1 park improvements are setting the stage for future phases outlined in the Windjammer Park Improvement Plan.

Take a walk through the elements you'll be able to enjoy starting in summer 2019 below.



See page 3 to learn more about the Clean Water Facility buildings



## What to expect during construction: mid-May 2018 – late spring 2019



- **DURING CONSTRUCTION, LARGE PORTIONS OF THE PARK WILL BE CLOSED**
- The waterfront trail, lagoon and ballfields will remain open during construction
- Sections of the park may re-open early as improvements are completed
- Special events typically held in the park will be held at other locations. Up-to-date information on community events and specific closure dates will be shared through our weekly email updates, the project website ([oakharborcleanwater.org](http://oakharborcleanwater.org)) and the Windjammer Park Improvements page on [Oakharbor.org](http://Oakharbor.org)

# Check out the structures in the new Clean Water Facility



Unlike the former Oak Harbor Wastewater Treatment Plant, all functions of the new Clean Water Facility will be covered.

**1 Headworks building:** Wastewater enters the facility through pipes under SE City Beach St and goes through a screening process to remove heavy material, grit (like sand), and sediment.

**2 Aeration basins/Waste activated sludge storage:** Air is mixed with wastewater for three to six hours, stimulating the growth of microorganisms that consume part of the waste.

**3 Secondary treatment building:** Microscopic solids are separated from liquids using membranes with pores smaller than one micrometer (0.001 millimeter). That's thinner than a human hair!



In the secondary treatment building, wastewater passes through the membrane bioreactor (MBR) tanks which stand almost two stories high.

**4 UV treatment:** The liquid "gets its tan on" and flows through a pipe with UV lamps that kill microorganisms by damaging their DNA. This treated and cleaned water travels through the outfall pipe into Oak Harbor Bay.

**5 Solids building:** Hot air is used to dry the leftover solid waste as it travels across a conveyor belt in the biosolids drier machine.



Solids dried in this building will be trucked off site to use as fertilizer for golf courses, farms, community gardens, and more!

**6 Maintenance building:** Equipment stored here helps make sure machinery in the facility stays in tip-top shape.

**7 Odor control:** Air from other buildings is "scrubbed" by biological materials that absorb odors, making sure you won't be able to smell the facility.

**8 Aeration blower building:** Air blown into the aeration basins, to stimulate the waste-eating microorganisms, must be kept above freezing and below 86 degrees.



Bubbler pipes in the aeration blower building feed microorganisms that chow down on waste during a three- to six-hour bath.

**9 Electrical building:** Equipment in this building monitors and maintains the facility's electricity.

**10 Emergency generator:** The name says it all! The emergency generator provides backup and emergency support for the facility in case of a power outage.

**11 Administration building:** In addition to a lab to test all waters, the administration building includes a multi-purpose interpretive center where you will be able to learn more about the city and facility.

Want to learn more?

Sign up for weekly construction updates:

[treatmentplant@oakharbor.org](mailto:treatmentplant@oakharbor.org)

360-914-7000 | [www.oakharborcleanwater.org](http://www.oakharborcleanwater.org)



865 SE Barrington Drive  
Oak Harbor, WA 98277

# Oak Harbor Clean Water Facility

## What's inside?

- Look at Windjammer Park Phase 1 improvements
- Learn about how the new Clean Water Facility will work
- Read about what's happening on site through 2018
- Get an update on rate projections

## Want more project information?

Email us at [treatmentplant@oakharbor.org](mailto:treatmentplant@oakharbor.org) or call 360-914-7000 to join our email list and receive weekly construction updates.

## Oak Harbor Clean Water Facility

Summer 2018 Project Update



## Clean Water Facility begins operating in September 2018!

## Windjammer Park improvements underway

In mid-May we began work on Windjammer Park Phase 1 improvements. To complete construction, large portions of the park will be closed through late spring 2019.

See inside for a tour of the park improvements coming in Phase 1 and to learn more about what to expect during construction.

**JULY 4TH FIREWORKS STILL ON!**

Visit our website for location details



*A new splash park, public plaza, kitchen, and other community spaces are coming to Windjammer Park summer 2019.*