



CITY OF SNOHOMISH

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City of Snohomish – Peracetic Acid (PAA) Project Project Shoreline Substantial Development Permit

January 14, 2021

Narrative Describing:

- The proposed project that includes the proposed use or uses and other activities necessary to accomplish the project;

To permit a project for installing two air gaps to the water system at the City's wastewater treatment plant (WWTP) for the purposes of providing cross connection control (CCC). CCC at sewage facilities has two functions; to protect the public potable water system from contamination and to protect the onsite domestic potable water system from contamination. The Facility designs will include a pressurized water system supplied through an air gap to facilitate cleaning or flushing of wet wells, dry wells, tanks, basins and equipment.

The project will include the following elements:

1. Two air gap facilities at the WWTP, one near the headworks at the north end of the facility and one near the southeast corner of the facility within the existing chlorination building.
 2. Two 500 gallon poly tanks for each air gap location including associated piping, valves and pumps.
 3. One 3-inch thick 10' x 20' concrete pads.
 4. One 12' wide x 20' long x 10' high building.
- The property as it now exists including its physical characteristics and improvements and structures;

The property currently exists as the city's wastewater sewer plant. The City's wastewater collection facilities include gravity sewers, sewer force mains, and pump stations that convey wastewater to the City's WWTP. The WWTP is a four-stage lagoon treatment system, which was retrofitted with a submerged fixed-film (SFF) media system in 2012. The WWTP also includes influent pumping and flow measurement, screening, addition of supplemental alkalinity, effluent filtration, and chlorine disinfection followed by

dechlorination. Treated wastewater is discharged to the Snohomish River. Biosolids that collect in the lagoons are periodically dredged, dewatered and land applied at a beneficial use facility (BUF).

- The vicinity of the proposed project including identification of the adjacent uses, structures and improvements, intensity of development and physical characteristics;

Project Vicinity and Adjacent Land Uses

The project is located at 2115 Second Street at the City's wastewater treatment plant. Specifically, the site is located at the southern portion of the property adjacent to the Snohomish River. The property maintains several structures which house equipment for controlling and running the daily operations of the wastewater treatment plant.

State Route 9 right-of-way is adjacent to the subject property to the east, the Snohomish River is adjacent to the south and to the west, vacant City property and Pilchuck Audubon Society property is adjacent to the north.

Physical Improvements

The Facility designs will include a pressurized water system supplied through an air gap to facilitate cleaning or flushing of wet wells, dry wells, tanks, basins and equipment.

The project will include the following elements:

1. Two air gap facilities at the WWTP, one near the headworks at the north end of the facility and one near the southeast corner of the facility.
2. Two 500 gallon poly tanks for each air gap location including associated piping, valves and pumps.
3. One 3-inch thick 10' x 20' concrete pads.
4. One 12' wide x 20' long x 10' high building.

Intensity of Development

The improvements as previously described are minor in nature with minimal land disturbance. The existing property in the location of the improvements currently maintains existing pavement and some above-ground buildings associated with equipment for the wastewater treatment plan. Essentially, two small above ground facilities (+/- 200 SF) will be installed connecting the existing water lines to the new air gap facilities in two separate locations.

- Compliance with the City's Shoreline Master Program and consistency with the policies of the Shoreline Management Act in RCW 90.58.020

City's Shoreline Master Program

The proposed project will be in compliance with the City's Shoreline Management Program which is consistent with Washington State's Shoreline Management Act. Specifically, this project is consistent with the following significant policy: *"Protect shoreline natural resources, including "...the land and its vegetation and wildlife, and the water of the state and their aquatic life...."*

The project will be in accord with this policy by installing a fail-safe system to protect the public potable water system from contamination and to protect the onsite domestic potable water system from contamination, a safer environmental application.

RCW 90.58.020

The legislature declares that the interest of all of the people shall be paramount in the management of shorelines of statewide significance. The department, in adopting guidelines for shorelines of statewide significance, and local government, in developing master programs for shorelines of statewide significance, shall give preference to uses in the following order of preference which:

- (1) Recognize and protect the statewide interest over local interest;
- (2) Preserve the natural character of the shoreline;
- (3) Result in long term over short term benefit;
- (4) Protect the resources and ecology of the shoreline;
- (5) Increase public access to publicly owned areas of the shorelines;
- (6) Increase recreational opportunities for the public in the shoreline;
- (7) Provide for any other element as defined in RCW **90.58.100** deemed appropriate or necessary.

Compliance with Shoreline Regulations

Washington State RCW 90.58.020 allows for protecting the statewide interest over local interest, as well as, protecting and preserving the natural character and resources of the Shoreline and provide long term benefit.

This project addresses all of these by installing a fail-safe system to protect the public potable water system from contamination and to protect the onsite domestic potable water system from contamination, a safer environmental application which will provide for less impact to the environment.