

Restoration Damage Assessment Committee Restoration and Enhancement Project Proposal

<i>ERTS#</i>	659258, 663014, 679990, 678508, 687512, 693629, 693668, 694926
<i>Spill Name</i>	Chelan PUD dam spills
<i>Spill Date</i>	9/1/2015 – 12/13/2019
<i>Proposal Date</i>	6/10/2020
<i>Project Title</i>	North Wenatchee Stormwater Facility Water Quality Improvements
<i>Project Proponent(s)</i>	City of Wenatchee
<i>Contact Person</i>	Jeremy Hoover
<i>Mailing Address</i>	1350 McKittrick Street, Wenatchee, WA 98801
<i>Phone</i>	509-888-3201
<i>E-Mail</i>	jhoover@wenatcheewa.gov

Project Category

- On-site, in-kind
- Off-site, in-kind
- On-site, out-of-kind
- Off-site, out-of-kind

Date submitted

Injury Assessment Summary

For the RDA committee to find a proposal sufficient to adequately compensate the people of the state for public resource damages, the PLP proposal must at least contain the following elements ([WAC 173-183-260](#)):

- (a) *An investigation of all potentially injured public resources to determine if they have been exposed to the spilled oil.*

From 2015 to 2019, Chelan County PUD reported turbine oil spills from the Rock Island and Rocky Reach Dams. The spills have occurred mostly due to trunnion seal failure. Oil spill volume was estimated using oil inventory records. Measured spills have varied in size from 31 gallons to 493 gallons, often occurred slowly over time and discovered during maintenance. An estimated 1,275 gallons of turbine oil spilled into the Columbia River over this five year period.

Many rivers and streams throughout the region provide spawning and rearing habitat for a variety of salmonid species (including Chinook, sockeye and coho salmon, as well as western slope cutthroat, rainbow and steelhead trout). Passerine birds commonly nest in riparian habitat during the spring and summer. The Columbia River is designated critical habitat for bull trout and Chinook salmon.

- (b) *Results of follow-up investigations on all public resources documented to be exposed to determine if exposure has resulted in injury.*

No follow-up investigations to assess exposure were conducted.

- (c) *Follow-up investigations on all public resources documented to be injured by the spill to quantify the injury.*

No follow-up investigations to assess injury were conducted.

- (d) *Quantification of damages for all public resources where injury has been quantified.*

The RDA committee determined that damages from these spills are not quantifiable at a reasonable cost. Damages were calculated for each reported spill event from the compensation schedule authorized under [RCW 90.48.366](#) and [90.48.367](#).

Project Details

<i>Project Name</i>	North Wenatchee Stormwater Facility Water Quality Improvements
<i>Project Latitude/Longitude</i>	47.452619, -120.330193
<i>Project Lead</i>	City of Wenatchee
<i>Contact Name</i>	Jeremy Hoover
<i>Contact Phone</i>	509-888-3212
<i>Contact E-mail</i>	jhoover@wenatcheewa.gov
<i>Proposed Funding</i>	\$43,016.82
<i>Total Project Cost</i>	Phase 2 - \$269,983
<i>Estimated project schedule</i>	Phase 2 – 2024-2025 depending on funding

Project Description

The project will be in the area along the Burlington Northern Santa Fe railway behind the commercial area of North Wenatchee Avenue and into the Horan Wildlife Area to the east. The drainage basin includes approximately 1.2 square miles of residential, commercial and industrial uses. Roughly 40% of the land use in the basin is commercial and industrial. At this time only about 25% of the commercial area drains to the Hawley Street Outfall that discharges to the wildlife area. Most of the drainage basin discharges to the Wenatchee River via the ditches collectively referred to as the North Wenatchee Avenue Stormwater Facility.

The North Wenatchee Avenue Stormwater Facility is a diversion structure that directs stormwater runoff from about 75 percent of the north end of the City of Wenatchee to a series of three ditches running north along railroad tracks which ultimately discharge into the Wenatchee River. Previous to construction of this facility, the stormwater flowed to the Hawley Street Outfall. This outfall discharged to man-made ponds in the Horan Wildlife Area and there was concern about sediment, petroleum hydrocarbons, and heavy metals polluting the area, so the City was asked to discontinue the practice.

In 2016 an evaluation showed the ponds in the Horan Wildlife Area had been negatively impacted by the removal of stormwater flows and recommended treated stormwater discharge be reintroduced to the area. The City plans to utilize the existing 36" main to re-direct flow and add water quality treatment between the diversion box and the ponds. The City will ensure that the urban stormwater does not negatively impact the pond areas by installing best management practices such as a biofiltration swale (BMP T5.40), bio-infiltration swale (BMP T5.30). Also under included is additional pretreatment upstream of the water quality facility to remove sediment and hydrocarbons and the elimination of an outfall to the Wenatchee River by installing a new pipe to re-direct stormwater into the existing 36 inch main.

Because of the complexity of this project, it has been broken into multiple phases.

- Phase 1 – Replace failing pipe at the Hawley Street Outfall
- Phase 2 – Install water quality treatment between Wenatchee Avenue and the North Wenatchee Avenue Stormwater Facility.
- Phase 3- Install a pipe in the existing ditch and eliminate outfall to the Wenatchee River. Install a biofiltration swale downstream of the Hawley Street Outfall.

Expected measureable benefits and accomplishments

The proposed water quality treatment for Phase 2 is a stormwater filtration system that removes total suspended solids, hydrocarbons, and metals. Based on the vendor information, the treatment unit is expected to remove more than 80% of total suspended solids, 30-50% of the total and dissolved copper and zinc, and 30% of the phosphorus.

Public natural resource restores and/or enhancedReduce stormwater pollutants discharging to the Wenatchee River and restore the waterways in the Horan Natural Area for local wildlife.

Supporting documents (maps, letters of support)

- North Wenatchee Stormwater Facility map
- Horan Wildlife Area and Existing Stormwater Conveyance Systems
- Existing and Proposed Stormwater Conveyance and Treatment Map
- Alternative Oil and Water Separator to Treat Only Runoff from Wenatchee diagram
- Letter of Support, Director of Natural Resources, Chelan PUD



Legend

Gravity Main– Collector:



Gravity Main– Open Channel:



Gravity Main– Culvert:



Discharge Point:



Re-Directed Stormwater Flow:



Weir Box:



Area of effected stormwater

Approx. 1.2 square miles



0 0.1 0.2mi

The National Map



North Wenatchee Avenue Stormwater Facility Ecology Grant

Legend

- Gravity Main- Collector: 
- Gravity Main- Open Channel: 
- Gravity Main- Culvert: 
- Discharge Point: 
- Re-Directed Stormwater Flow: 
- Weir Box: 



Figure 3

Existing and Proposed Stormwater Conveyance and Treatment

16521

September 2019

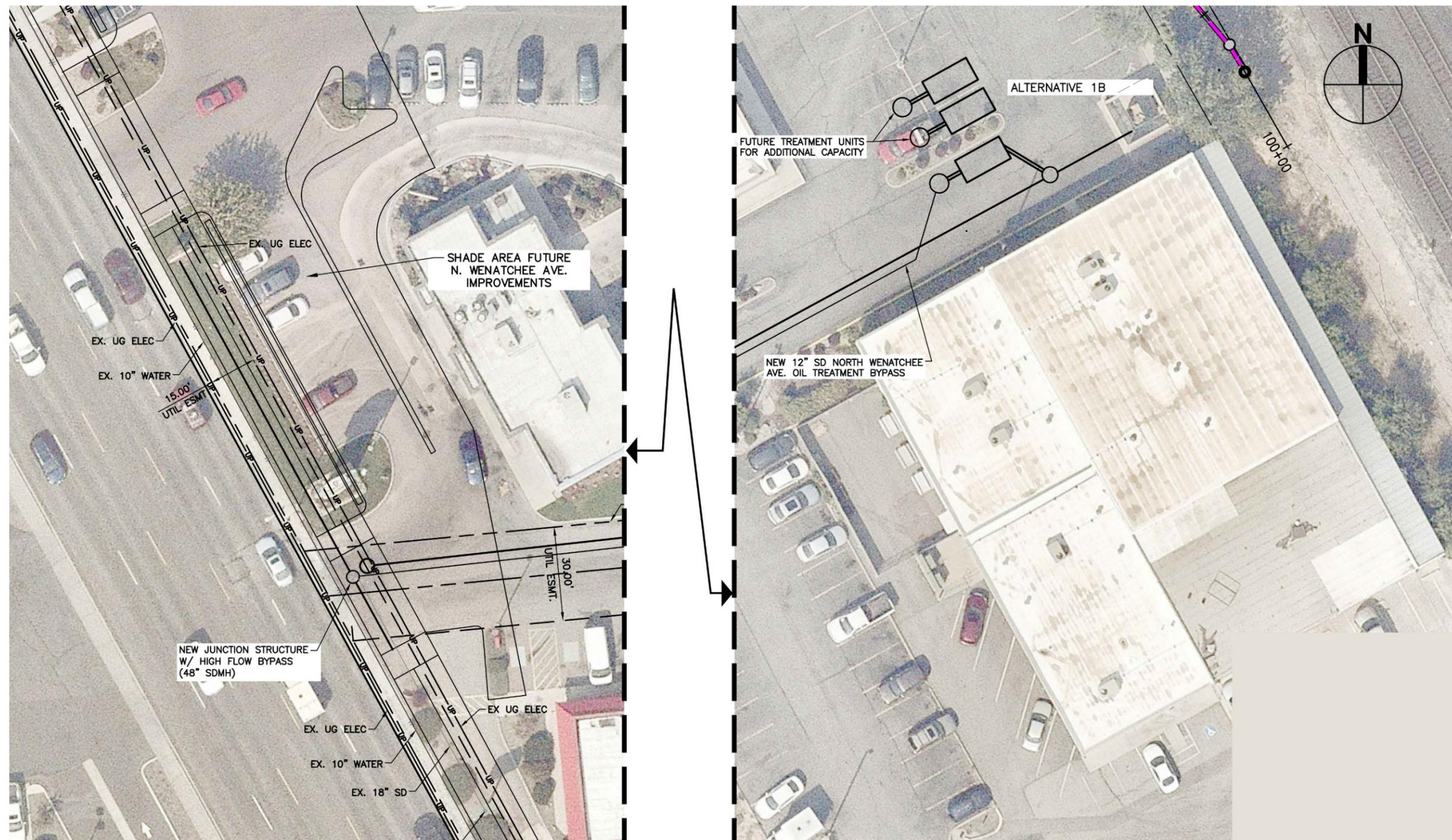


Figure 6

Alternative 3: Install Oil and Water Separator to Treat Only Runoff from Wenatchee Avenue in Holiday Inn Lot

16521

September 2019



PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY

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July 29, 2015

Department of Ecology
Water Quality Program
P.O. Box 47600
Olympia, WA 98504-7600

RE: Letter of Support for the North Wenatchee Stormwater Outfall Removal & Water Quality Improvements

To Whom It May Concern,

The Public Utility District No. 1 of Chelan County would like to express support for the North Wenatchee Stormwater Outfall Removal and Water Quality Improvements Project grant application submitted by the City of Wenatchee to the FY16 Stormwater Pre-Construction Grants Program. Thank you for your time and consideration of this important water quality project.

Sincerely,

Keith Truscott
Director of Natural Resources
509.661.4831
keith.truscott@cheianpud.org