

CITY OF SNOQUALMIE WATER RECLAMATION FACILITY PHASE 2 IMPROVEMENTS

Project Summary

The city of Snoqualmie's 3.0 mgd treatment plant includes mechanically cleaned bar screens, vortex grit removal, secondary treatment by a modified Bardenpho process for advanced nutrient removal, traveling hood effluent sand filtration, and ultraviolet disinfection. Sludge disposal is by wastage to existing facultative stabilization ponds. Effluent disposal is based on discharging secondary effluent to a new Snoqualmie River outfall in the winter, and Eagle Lake for golf course irrigation in the summer. All water sent to

Eagle Lake meets Class A Reclaim Water Standards. Burke Electric worked with Prospect Construction to build a new Solids Handling Building that included 3 new aerobic digesters and new office space. The project also included major overhauls to the existing headworks, Clarifiers, oxidation Ditches all while keeping the existing plant operational.

Burke Electric Scope

Burke Electric installed a new 16 section 800A MCC and PLC. A large portion of the plants motors and controls were re feed from the new MCC and control panel all while keeping the plant operational. Burke also worked closely with prospect and power company to bring a new 1200-amp service to the plant. This included temp power to keep some critical loads energized during the cut over to the new service. The cut over was successfully completed in a 4 hour shutdown window. Work on the Headworks included new (2) new electrical panels, new control panel and new conduit and wiring to existing equipment in a class 1 div 2 area. A key challenge during the project was keeping the plant operational at all times.



Equipment and Systems Overview

- Motor Control Centers
- Variable Frequency Drives
- Lighting
- Signal Cable and Low Voltage Systems
- Duct Bank
- Control Panels
- PVC Coated Rigid Conduit
- Disconnects
- Class 1 Div 2
- Instrumentation

Offeror Role

Subcontractor

Owner Information

City of Snoqualmie
Tom Holmes, *Wastewater Supervisor*
tholmes@snoqualmiewa.gov
Phone: 425-888-4153, ext. 1159

Contract Amount & Type

\$1,713,585—*firm fixed price*

Customer Information

Prospect Construction, Inc.
Prospect Construction, Inc.
113 23rd St. E
Puyallup, WA 98372
| Kevin Yaokum | *Project Engineer*
253-446-1600
kyaokum@prospectconst.com

Project Start and Finish Dates

12/1/2017—10/31/2019

Project Location

Snoqualmie Water Department
38194 SE Sterns Rd
Snoqualmie, WA 98065



Burke Electric Project Personnel

Ken Nash—General Foreman
Scott Mosley—Project Manager
Dominic Burke—Owner
Katie Morton—Safety Manager

