

Our Future Water Supply

Tualatin Valley Water District (TVWD) and the City of Hillsboro, collectively referred to as the Partners, have identified the Willamette Water Supply System as the best option for future delivery of drinking water to their service areas in Washington County. Development of the Willamette Water Supply System is being led by the Partners. Other water providers in the region are also looking at their options for future participation. The mid-Willamette River at Wilsonville will be the new water supply source for the Willamette Water Supply System. Although current demands are met through other sources, the addition of a new source will provide improved water supply reliability and system resiliency. Developing an additional water supply through a partnership supports the region's plans for responsible growth within the urban growth boundary.

Willamette Water Supply

Our Reliable Water

Monthly Progress Report

Month End September 2018

Scholls Area Pipeline Project Contractor Procured

The Scholls Area Pipeline Project includes installation of 7.2 miles of 66-inch diameter pipeline that extends from Roy Rogers Road to Farmington Road. Phase 1 (PLM_5.1) consists of approximately 1.4 miles of pipe that will be installed in coordination with a Washington County project widening Roy Rogers Road. Tapani, Inc., a local construction company with 35 years of experience in the Pacific Northwest, was selected as the construction contractor. Tapani, Inc. will begin road construction on the east side of Roy Rogers Road starting in late 2018, then move to the west side where the waterline will be installed beginning the spring of 2020.



Construction starting soon on the Scholls Area Pipeline Project

S&B, Inc. Selected for the Distributed Controls System Project

The Distributed Controls System (DCS_1.0) Project includes the planning, design, and programming of Willamette Water Supply System (WWSS) supervisory control and data acquisition (SCADA) system components that will be based at several WWSS facilities, including: the Raw Water Facilities (RWF_1.0) located at the Willamette River Water Treatment Plant in Wilsonville; the new water treatment plant (WTP_1.0) located near the City of Sherwood; the new storage reservoirs (RES_1.0) located on Cooper Mountain; and several other control facilities located along the pipelines. The SCADA is a system of software and hardware

that controls mechanical processes at remote locations; monitors, gathers, and processes real-time data; interacts with sensors, valves, pumps, motors, and more through human-machine interface (HMI) software; and records events into reports. S&B, Inc., a regional firm that has been serving the Pacific Northwest since 1977, was recently selected to plan and design the program-wide control system architecture. S&B, Inc. will develop and establish instrumentation and controls design standards, design criteria, and communications standards for all WWSS projects with control system components.



Procurement & Business Opportunities

WWSP staff are preparing for several upcoming professional services and construction contractor procurements. Listed below are active procurements and upcoming events and procurements. Procurement opportunities are also published at <http://www.ourreliablewater.org/business-opportunities>.

Active Procurements

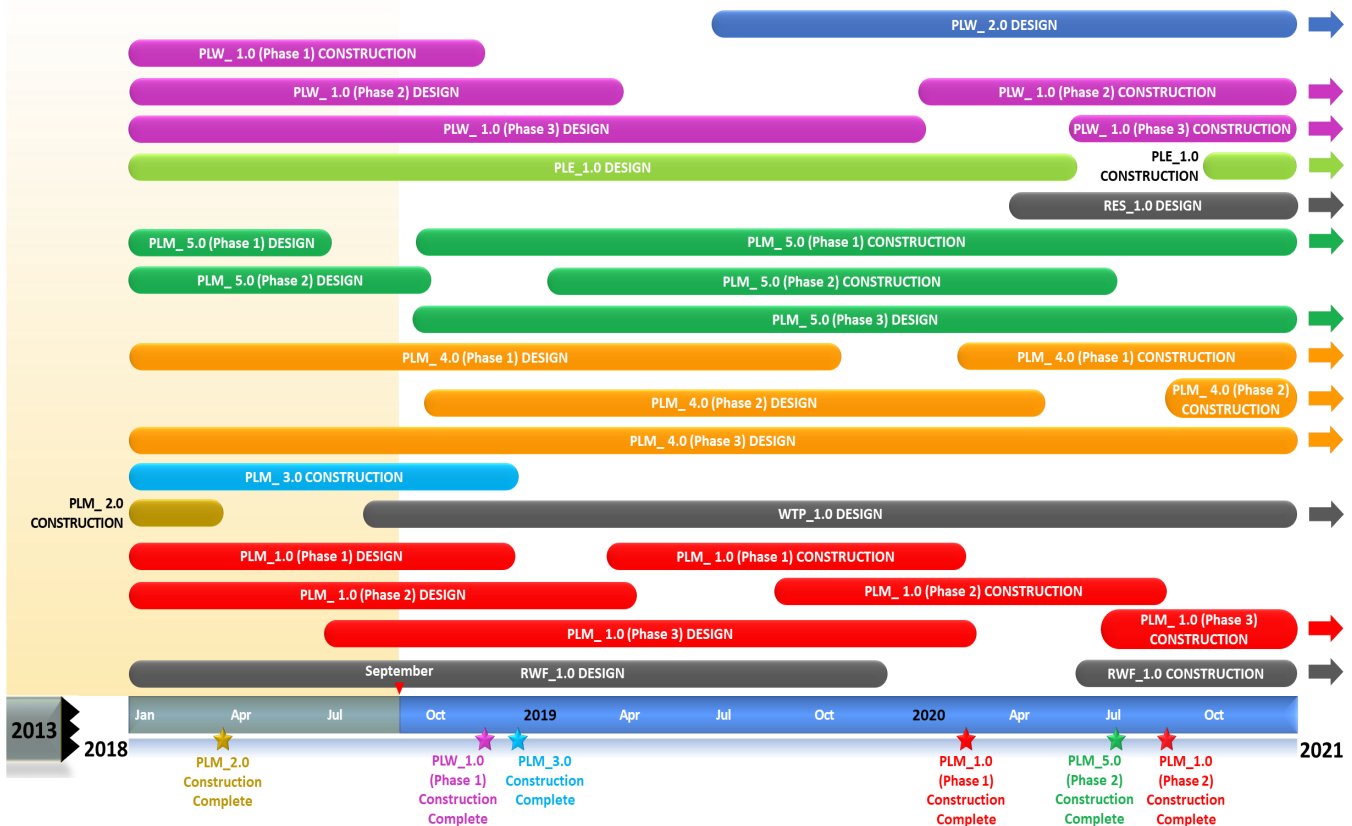
- Water Treatment Plant and Finished Water Pump Station (WTP_1.0/FPS_1.0) Construction Manager/General Contractor (CM/GC) Request for Proposal (RFP) (Released September 5)

Upcoming Events and Procurements

- Scholls Area Pipeline Project (PLM_5.2) Construction Invitation to Bid (ITB) (Quarter 4, 2018)
- Wilsonville Area Pipeline Project (PLM_1.1) Construction ITB (Quarter 1, 2019)

Schedule Summary

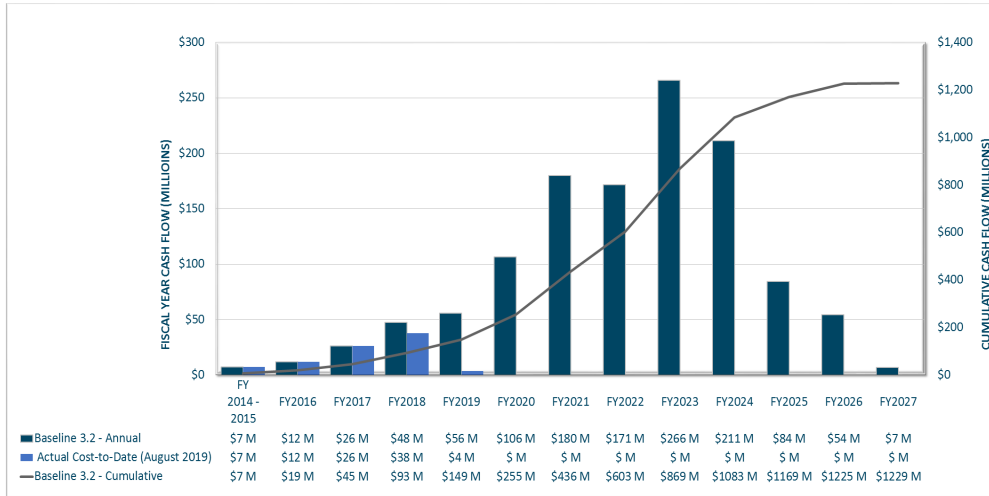
WWSP design and planning began in 2013; the Willamette Water Supply System is expected to be in service by July 2026. Below are the major milestones and activities forecasted from 2018 to 2021*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.



*The actual order and duration of projects continues to be refined and is subject to change.

Forecast Cost Summary

The graph below illustrates the projected WWSP cash flow by fiscal year (FY July 1 to June 30)*. The cumulative cash flow establishes the budgeted \$1.2 billion, which accounts for actual and current projected costs, including projected escalation in the cost of labor, materials, and equipment required to build WWSP projects.



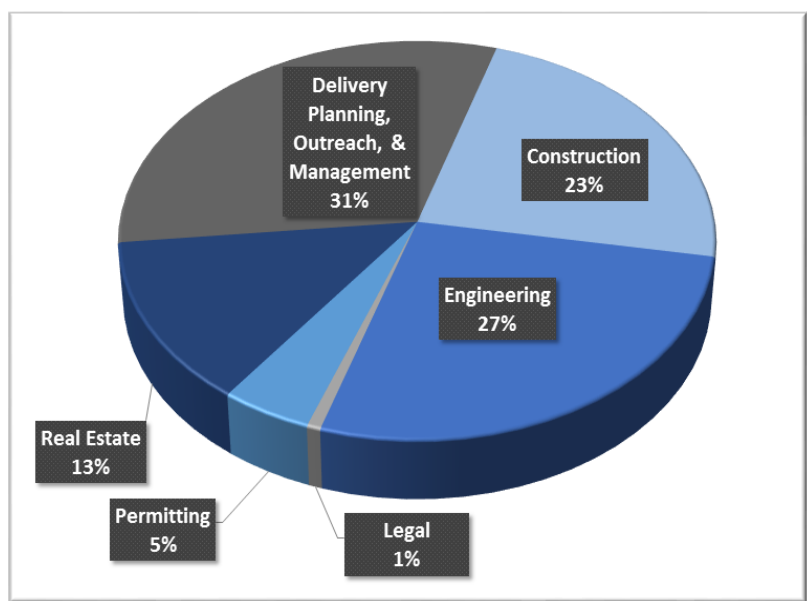
Costs for FY 2019 are \$4 million. Cumulative costs are projected to be \$139 million through the end of FY 2019.

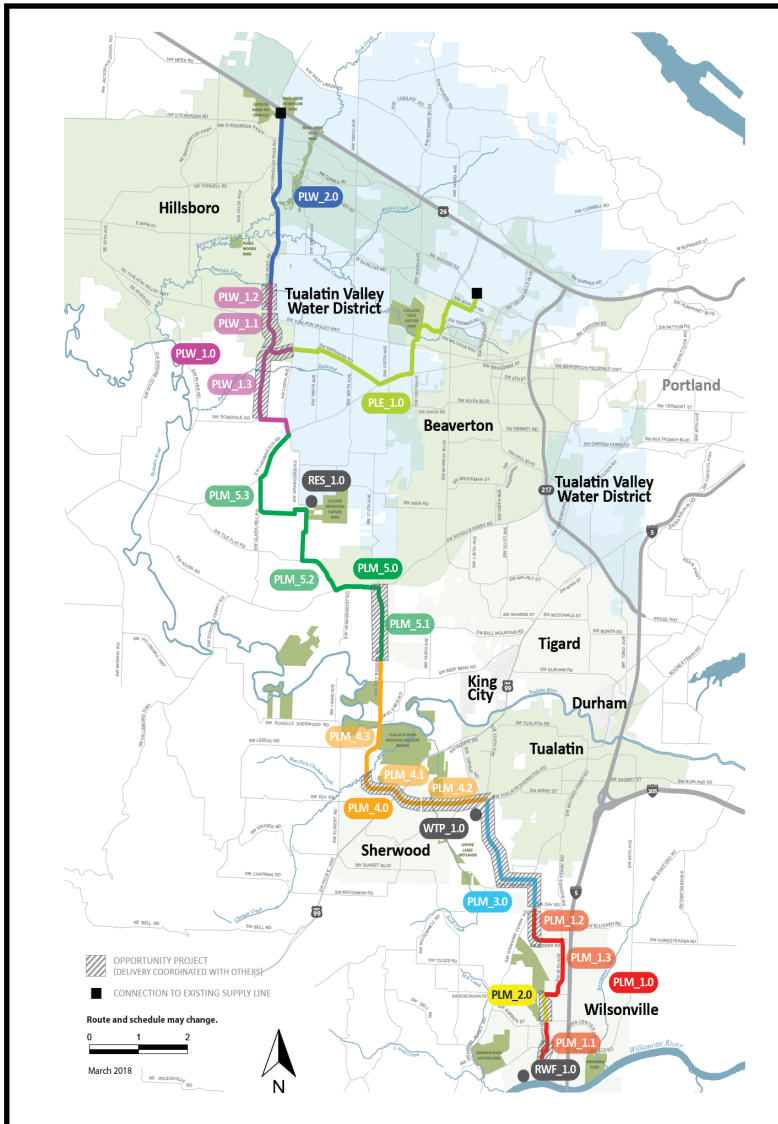
*Data continues to be refined and is subject to change.

Cumulative Cost Summary

WWSP cumulative costs are tracked and updated monthly. The chart below summarizes the distribution of cumulative costs through August 2018.

Cumulative Water Supply Program costs to date are approximately \$87 million, with the majority spent on planning, engineering, construction, and real estate activities.





WTP_1.0 Willamette Water Supply System Water Treatment Plant
(Water Treatment Plant (WTP))

FPS_1.0 *Description:* 60-million gallon per day water treatment plant (WTP_1.0), including a finished water pump station (FPS_1.0) and a control system (DCS_1.0) located near Sherwood.

DCS_1.0 *Status:* Planning Phase (WTP/FPS Design Start: 08/2018)
Planning Phase (DCS Design Start: 10/2018)

RWF_1.0 Raw Water Facilities Expansion
(Raw Water Facilities (RWF) Expansion)

Description: Expansion of the existing raw water pump station and intake infrastructure at the Willamette River WTP (WRWTP) in Wilsonville to 60 million gallons per day of initial capacity for the Willamette Water Supply System.

Status: Design Phase (Construction Start: 06/2020)

For more information about the WWSP, visit www.ourreliablewater.org or call 503.941.4570.

PLW_2.0 Cornelius Pass Pipeline Project
(Frances Road to Highway 26)

Description: 3.4-mile water pipeline along Cornelius Pass Rd. from Frances Rd. to Hwy 26; connects to existing supply lines for City of Hillsboro and TVWD.

Status: Planning Phase (Design Start: 07/2019)

PLW_1.0 South Hillsboro Area Pipeline Project
(Farmington Road to Frances Road)

Description: 3.9-mile water pipeline from SW Farmington Rd. at SW 209th Ave. to Cornelius Pass Rd. at Frances Rd.; also east on Kinnaman Rd. between Cornelius Pass Rd. and SW 209th Ave.

Status: Construction Phases (Phase 1 Construction Complete: 11/2018; Phase 2 Construction Start: 01/2020)

PLE_1.0 Beaverton Area Pipeline Project
(SW 209th Avenue to Walker Road)

Description: 5.5-mile water pipeline from SW 209th Ave. at Kinnaman Rd. to SW Cedar Hills Blvd.; connects to existing TVWD system.

Status: Design Phase (Construction Start: 10/2020)

RES_1.0 South Beaverton Area Water Storage Tanks (Storage Tanks)

Description: Two 15-million gallon storage tanks located on Cooper Mountain.

Status: Planning Phase (Design Start: 04/2020)

PLM_5.0 Scholls Area Pipeline Project
(North of Beef Bend Road to Farmington Road)

Description: 7.2 mile water pipeline from SW Roy Rogers Rd. 0.5-mile north of SW Beef Bend Rd. to SW Farmington Rd. at SW 209th Ave.

Status: Construction Phase (Phase 1 Construction Start: 09/2018; Phase 2 Construction Start: 01/2019)

PLM_4.0 Tualatin-Sherwood Area Pipeline Project
(SW 124th Avenue to north of Beef Bend Road)

Description: 5.3-mile water pipeline from 124th Ave. at SW Tualatin Sherwood Rd. along SW Roy Rogers Rd. to 0.5 miles north of SW Beef Bend Rd.

Status: Design Phase (Phase 1 Construction Start: 02/2020)

PLM_3.0 124th Avenue Partnership Project
(SW 124th Avenue Extension)

Description: 2.7-mile water pipeline from Grahams Ferry Rd. at Day Rd. to 124th Ave. at SW Tualatin Sherwood Rd.

Status: Construction Phase (Complete: 12/2018)

PLM_2.0 Kinsman Road Partnership Project
(Kinsman Road Extension)

Description: 0.5-mile water pipeline along Kinsman Rd. between Barber St. and Boeckman Rd.

Status: Construction Phase (Complete)

PLM_1.0 Wilsonville Area Pipeline Project
(WRWTP to Day Road)

Description: 3.0-mile water pipeline from WRWTP to the intersection of SW Garden Acres Rd. at Day Rd.

Status: Design Phase (Phase 1 Construction Start: 03/2019)