# Willamette Water Supply
## Our Reliable Water

*Monthly Progress Report*

Month End **November 2017**

## 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.

## WWSP Map Updates

The Willamette Water Supply Program (WWSP) map has been updated to reflect the latest design and construction activity. Though the pipeline alignments and facility locations remain the same, project boundaries and schedules have been refined as design continues. Some of the updates include:

● The Tualatin-Sherwood Area Pipeline Project (Phase 1) was extended north past Chicken Creek to expedite construction through Sherwood

● The Scholls Area Pipeline Project (Phase 1) south boundary was shifted north to coordinate with county road construction

● The Scholls Area Pipeline Project (Phase 2) was divided and re-sequenced to advance design and construction ahead of residential development

● The Wilsonville Area Pipeline Project (Phase 1) was extended north of Wilsonville Road to complete the road crossing earlier

See page 4 of this report or visit our website for the latest map updates.

## Participating in the WWSP

Is your business interested in participating in the WWSP? Businesses can get involved by:

1) Submitting a response to an advertised Request for Proposal (RFP) or Invitation to Bid (ITB) as a qualified prime contractor.

2) Becoming a subcontractor or vendor to a prime contractor awarded a contract.

3) Getting involved with procurements of goods or services for one of the opportunity projects led by a partner agency participating with the WWSP.

RFP and ITB opportunities are advertised in the *Daily Journal of Commerce Oregon* and on the WWSP Business Opportunities page.

In addition, there are many goods and services necessary for each project, and each contractor selects its own subcontractors to support construction. Some of the goods and services that are needed include, but are not limited to: traffic control, equipment rentals, erosion/sediment control, concrete, welding, fuels and oils, equipment maintenance, portable toilets, truck drivers, signage, pavement/road construction, and fencing.



*Willamette River*

## 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.
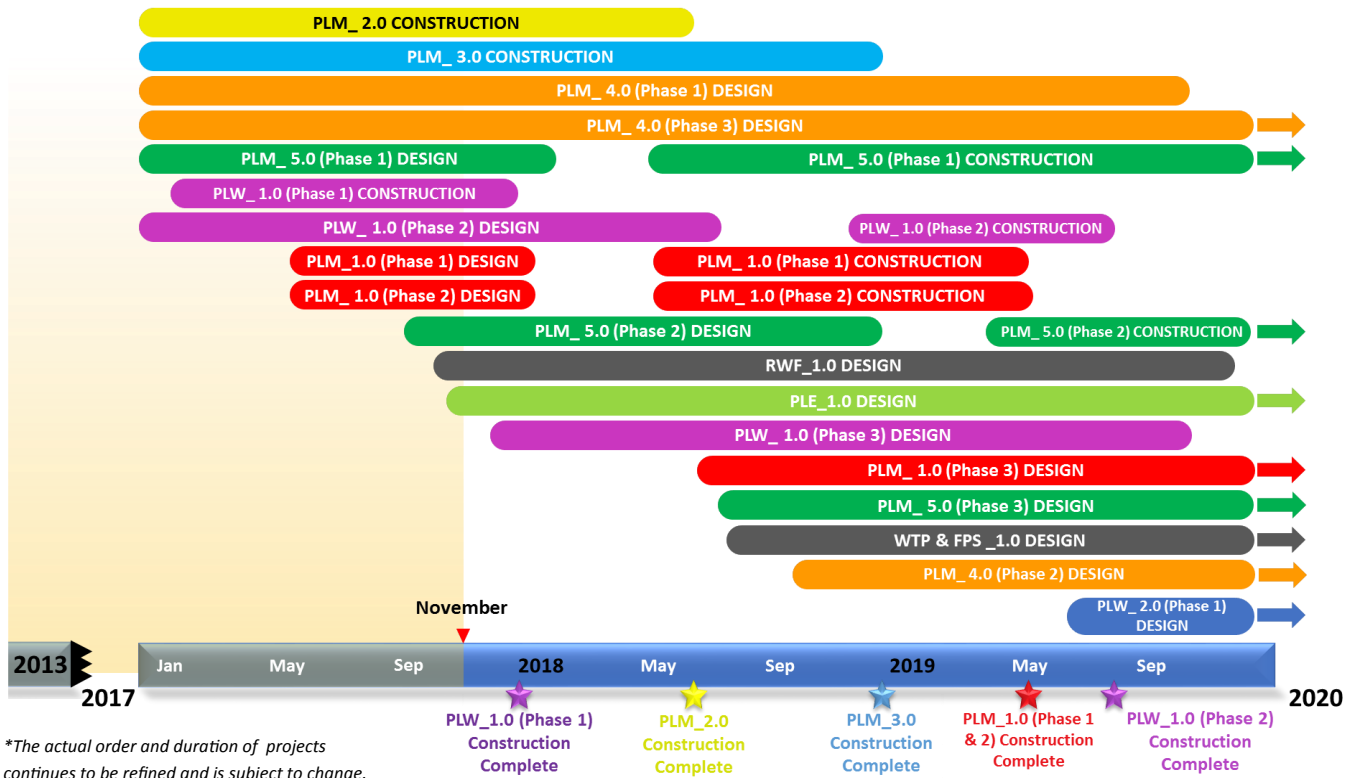
### Active Procurements

- No active procurements

### Upcoming Procurements

- Scholls Area Pipeline Project (PLM_5.1) Construction ITB (Quarter 1, 2018) Washington County Project
- Wilsonville Area Pipeline Project (PLM_1.1 & 1.2) Construction ITB (Quarter 1, 2018)
- Raw Water Facilities Expansion (RWF_1.0) Construction Manager/General Contractor (CM/GC) Request for Proposal (RFP) (Quarter 1, 2018)
- Water Treatment Plant and Finished Water Pump Station (WTP_1.0/FPS_1.0) Design RFP (Quarter 1, 2018)
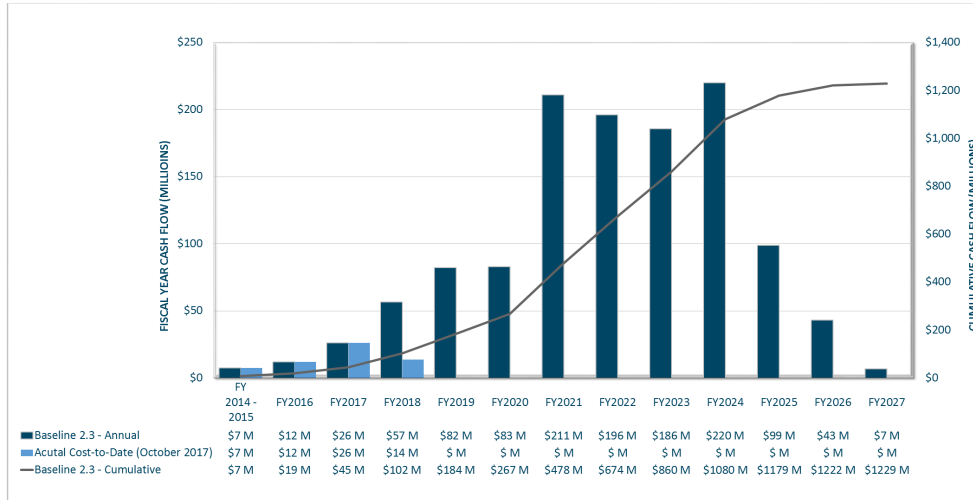
## Schedule Summary

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 2017 to 2020*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the referenced projects below.

PLM_ 2.0 CONSTRUCTION
PLM_ 3.0 CONSTRUCTION
PLM_ 4.0 (Phase 1) DESIGN
PLM_ 4.0 (Phase 3) DESIGN
PLM_ 5.0 (Phase 1) DESIGN
PLM_ 5.0 (Phase 1) CONSTRUCTION
PLW_ 1.0 (Phase 1) CONSTRUCTION
PLW_ 1.0 (Phase 2) DESIGN
PLW_ 1.0 (Phase 2) CONSTRUCTION
PLM_1.0 (Phase 1) DESIGN
PLM_ 1.0 (Phase 1) CONSTRUCTION
PLM_ 1.0 (Phase 2) DESIGN
PLM_ 1.0 (Phase 2) CONSTRUCTION
PLM_ 5.0 (Phase 2) DESIGN
PLM_ 5.0 (Phase 2) CONSTRUCTION
RWF_1.0 DESIGN
PLE_1.0 DESIGN
PLW_ 1.0 (Phase 3) DESIGN
PLM_ 1.0 (Phase 3) DESIGN
PLM_ 5.0 (Phase 3) DESIGN
WTP & FPS _1.0 DESIGN
PLM_ 4.0 (Phase 2) DESIGN
PLW_ 2.0 (Phase 1) DESIGN

November

2013    Jan    May    Sep    2018    May    Sep    2019    May    Sep    2020
2017

PLW_1.0 (Phase 1) Construction Complete
PLM_2.0 Construction Complete
PLM_3.0 Construction Complete
PLM_1.0 (Phase 1 & 2) Construction Complete
PLW_1.0 (Phase 2) Construction Complete

*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 the projects that comprise the WWSP.
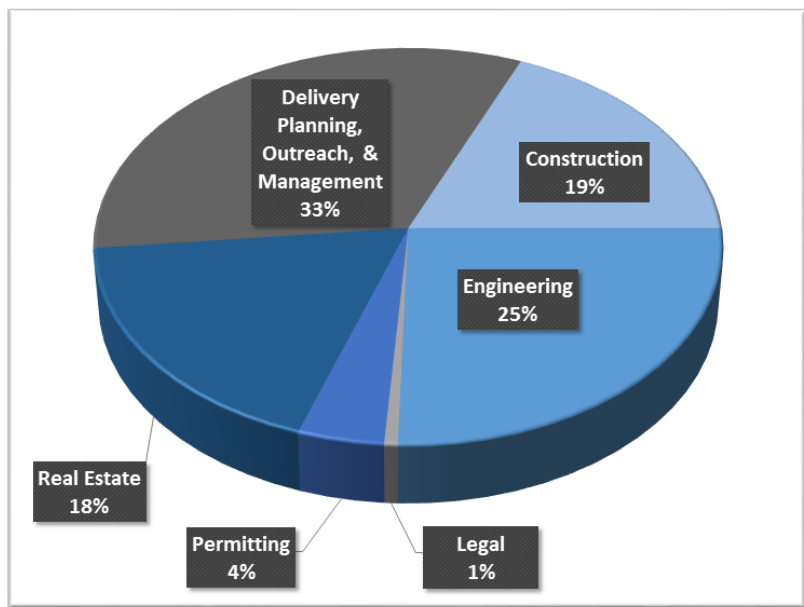


| | FY 2014 - 2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Baseline 2.3 - Annual | $7 M | $12 M | $26 M | $57 M | $82 M | $83 M | $211 M | $196 M | $186 M | $220 M | $99 M | $43 M | $7 M |
| Acutal Cost-to-Date (October 2017) | $7 M | $12 M | $26 M | $14 M | $ M | $ M | $ M | $ M | $ M | $ M | $ M | $ M | $ M |
| Baseline 2.3 - Cumulative | $7 M | $19 M | $45 M | $102 M | $184 M | $267 M | $478 M | $674 M | $860 M | $1080 M | $1179 M | $1222 M | $1229 M |

Costs for FY 2018 are $14 million. Cumulative costs are projected to be $102 million through the end of FY 2018.
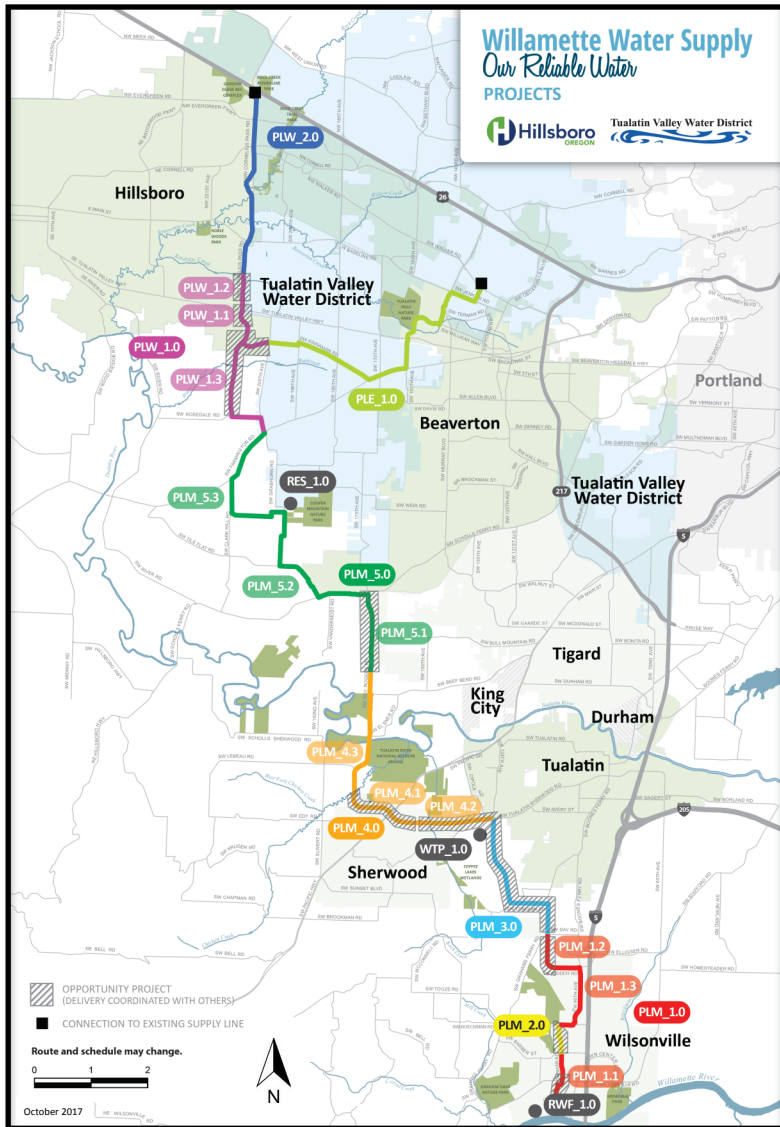
*Data continues to be refined and is subject to change.*

## Cumulative Cost Summary

WWSP cumulative costs are tracked and updated monthly. The chart below summarizes the distribution of cumulative costs through October 2017.

*Cumulative Water Supply Program costs to date are approximately $59 million, with the majority spent on planning, engineering, construction, and real estate activities.*



Delivery Planning, Outreach, & Management 33%
Construction 19%
Engineering 25%
Real Estate 18%
Permitting 4%
Legal 1%

### WTP_1.0 Willamette Water Supply System Water Treatment Plant
### FPS_1.0
**(Water Treatment Plant (WTP))**

*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)

### 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 (Phase 1 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:* Design and Construction Phases (Phase 2 Construction Start: 11/2018)

### 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: 09/2020)

### 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: 10/2020)

### 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 north of SW Beef Bend Rd. to SW Farmington Rd. at SW 209th Ave.

*Status:* Design Phase (Phase 1 Construction Start: 05/2018)

### 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: 06/2018)

### 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 & 2 Construction Start: 05/2018)