

Our Future Water Supply

The Willamette Water Supply System Commission (WWSS Commission) is an Oregon intergovernmental entity formed by Tualatin Valley Water District (TVWD), the City of Hillsboro, and the City of Beaverton. The WWSS Commission was formed to build the Willamette Water Supply System (WWSS) in response to planned growth in their service areas. TVWD has been designated the Managing Agency for the WWSS Commission, and TVWD operates the Willamette Water Supply Program (WWSP) to plan, design, and construct the WWSS. The WWSS will provide an additional resilient water supply for Washington County. When complete, the WWSS will be one of Oregon’s most seismically-resilient water systems—built to better withstand natural disasters, protect public health, and speed regional economic recovery through restoring critical services more quickly. The new system will be completed by 2026.

Willamette Water Supply *Monthly Progress Report*

Our Reliable Water

Month End **November 2022**

Raw Water Facility Reaches Significant Milestones

The Raw Water Facility (RWF_1.0) project has reached two significant milestones—completion of Phase 1.5 and launch of Phase 2, the final phase of a multi-year improvement project at the Willamette River Water Treatment Plant (WRWTP). Phase 1 of the three-phase project was completed in early summer 2022.

In coordination with the City of Wilsonville, RWF_1.0 expands the existing raw water pump station and intake infrastructure at the WRWTP. The project also includes new infrastructure at the Upper Site, the area north of Arrowhead Creek, to expand pumping capacity. The expansion will result in an initial Willamette Water Supply System capacity of 60 million gallons per day. Major project elements include new vertical turbine pumps with variable frequency drives, electrical facilities, water surge protection, backup power, 66-inch raw water pipeline, and seismic improvements.

Phase 1.5

The WWSP accelerated portions of work originally slated for Phase 2 to take advantage of the 2022 in-water work window, a designated timeframe to complete work determined by the Oregon Department of Fish and Wildlife to minimize impacts to fish, wildlife, and natural resources. In coordination with the general contractor, the following was successfully completed:

- Upper Site utility work (including potable water, sanitary sewer, and storm-water piping) and initial pavement placement
- Lower Site (area containing the Willamette River Water Treatment Plant and Park, adjacent to the bank of the Willamette River) drainage and landscaping improvements
- In-water work to complete installation of protection piles and a catchment fence for the intake
- Arrowhead Creek Park reopening in October 2022

Phase 2

Construction of the final phase of the RWF_1.0 project began in fall of 2022 and is scheduled to complete in September of 2024. Phase 2 work includes:

- Upper Site Electrical Building and landscaping
- Generators for backup power
- Vertical turbine pumps and associated mechanical and electrical equipment
- Water surge protection facilities

RWF_1.0 Completed and Future Work

PHASE 1.5

Upper Site Pavement and Utility Work



PHASE 2

Rendering of Upper Site Electrical Building

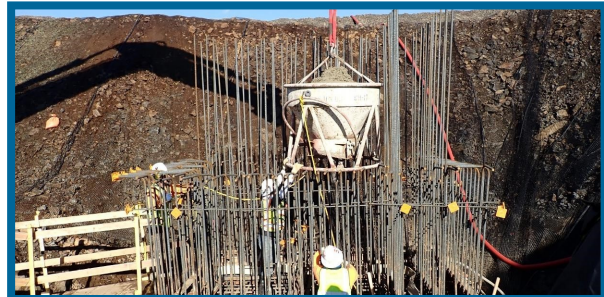


Project of the Month

The WWSP is well underway with many projects currently in the construction phase and the remaining projects completed. The photos below highlight the progress on the Water Treatment Plant (WTP_1.0). Additional information on the project is available at <https://www.ourreliablewater.org/water-treatment-plant/>.



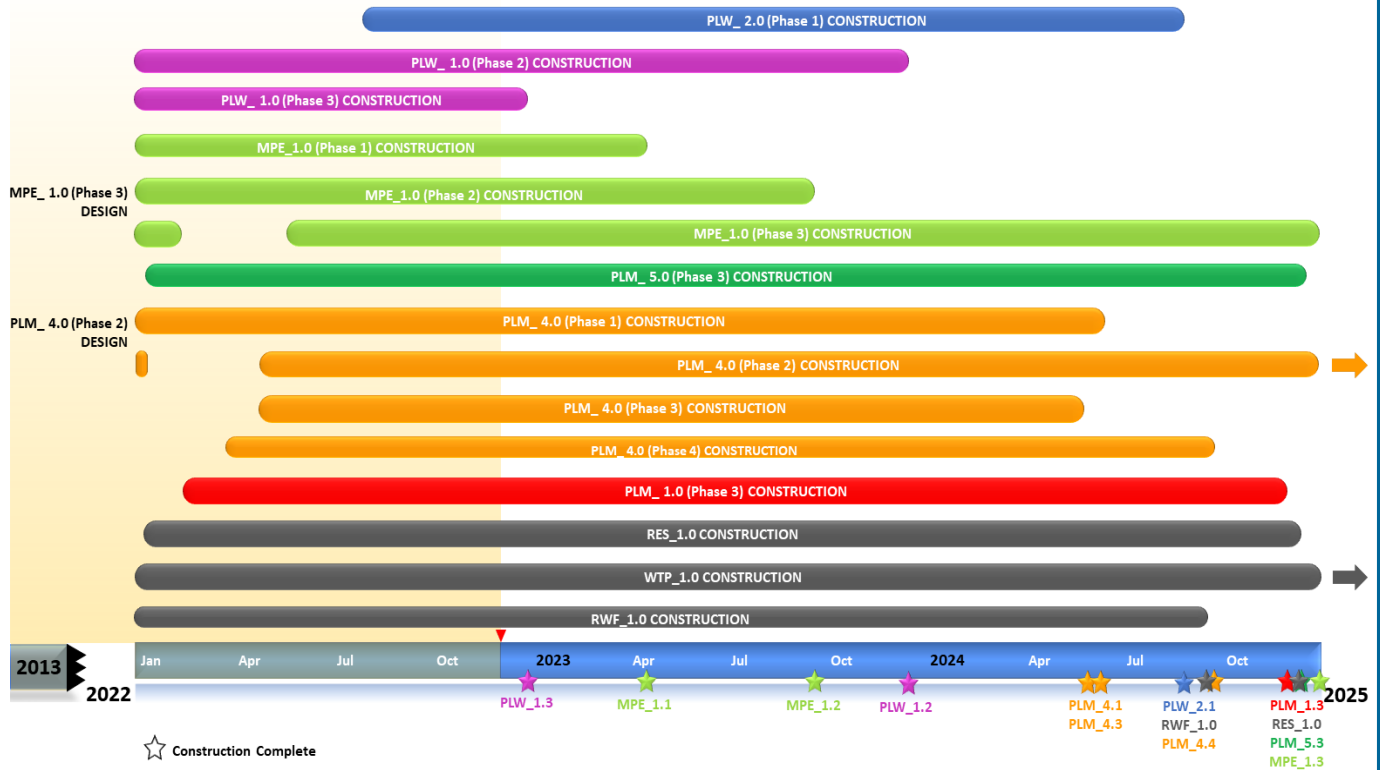
Water Treatment Plant Clearwell Area



First Concrete Placement at Water Treatment Plant

Schedule Summary

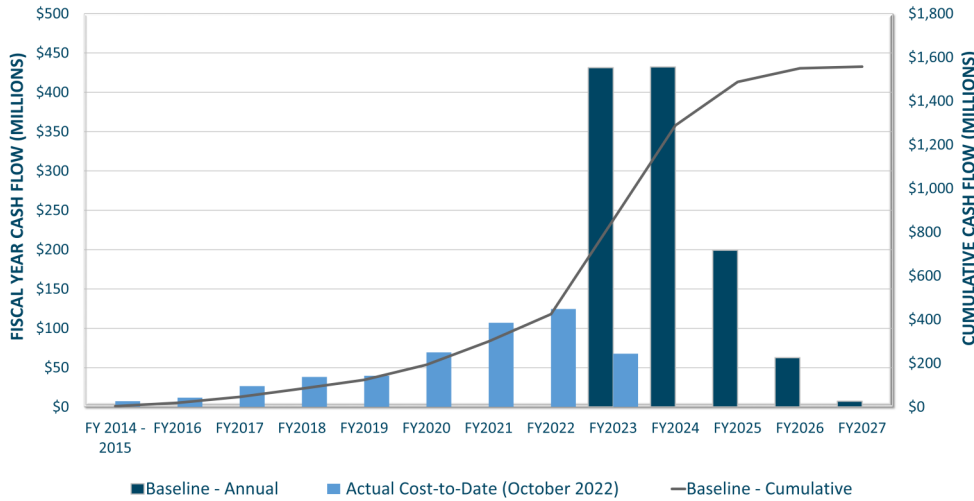
WWSP design and planning began in 2013; the Willamette Water Supply System is expected to be in service by July 2026. Below are the major milestones and activities forecasted from 2022 to 2025*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.



*The actual 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 \$1.6 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.



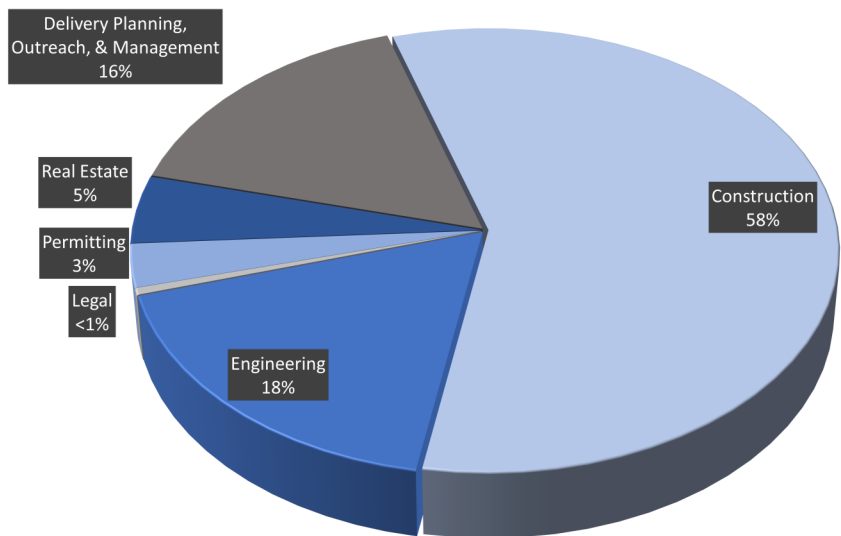
Costs to date for FY 2023 are \$67.8 million. Cumulative costs are projected to be \$824 million through the end of FY 2023.

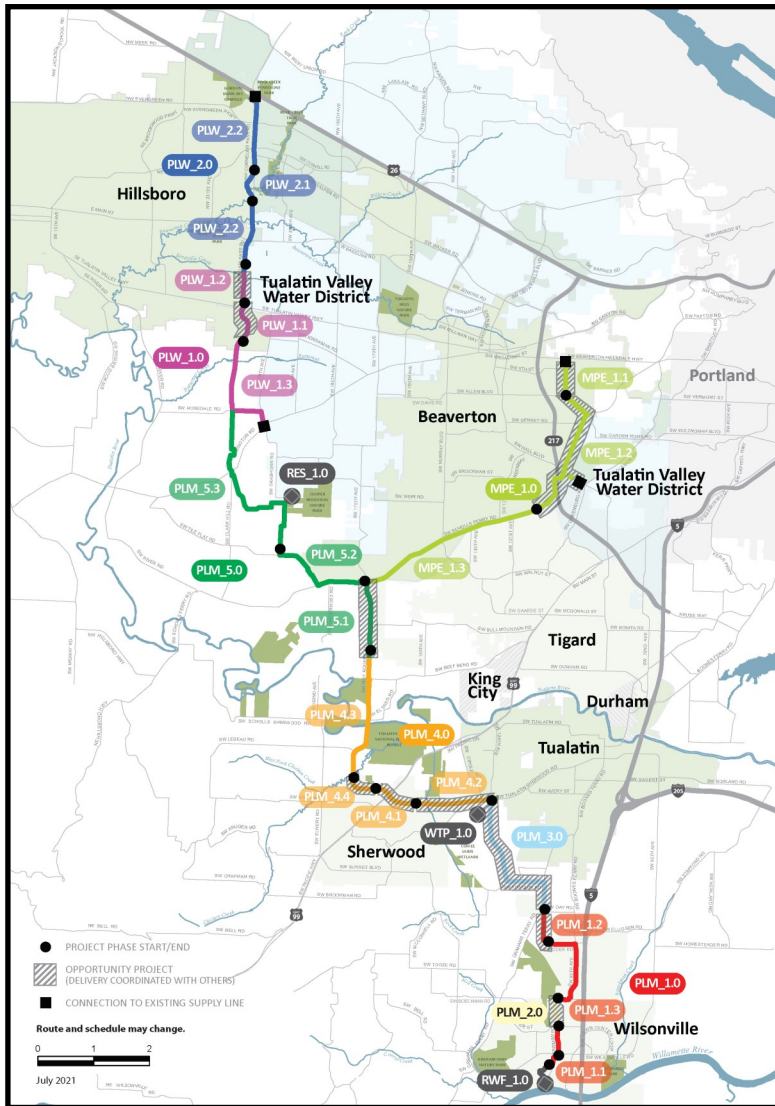
*Current program forecast at completion may vary from baseline cumulative budget due to interim approved changes.

Cumulative Cost Summary

WWSP cumulative costs are tracked and updated monthly. The chart below summarizes the distribution of cumulative costs through October 2022.

Cumulative Water Supply Program costs to date are approximately \$492.5 million, with the majority spent on planning, engineering, and construction.





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

Description: 3.3-mile water pipeline along Cornelius Pass Rd. from Frances St. to Hwy 26 with Phase 1 consisting of 1/2 mile of pipeline beginning at Orenco Woods Nature Park; connects to existing supply lines for City of Hillsboro and TVWD.
Status: Phase 1: Construction; Phase 2: Deferred

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

Description: 4-mile water pipeline from SW Farmington Rd. at SW 209th Ave. to Cornelius Pass Rd. at Frances St.
Status: Phase 1: Complete; Phase 2: Construction; Phase 3: Construction

MPE_1.0 Metzger Pipeline East Project
(Roy Rogers Road to Beaverton Hillsdale Hwy)

Description: 7.3-mile water pipeline to be built along SW Scholls Ferry Rd. between SW Roy Rogers Rd. and Allen Blvd.; connects to Metzger service area at SW Oleson Rd. and TVWD's system.
Status: Phase 1: Construction; Phase 2: Construction; Phase 3: Construction

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

Description: One 15-million gallon storage tank located on Cooper Mountain.
Status: Construction

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

Description: 7-mile water pipeline from SW Roy Rogers Rd. 0.5-mile north of SW Beef Bend Rd. to SW Rosedale Rd.
Status: Phase 1: Complete; Phase 2: Complete; Phase 3: Construction

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: Phase 1: Construction; Phase 2: Construction; Phase 3: Construction; Phase 4: Construction

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: Complete

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

Description: 0.6-mile water pipeline along Kinsman Rd. between Barber St. and Boeckman Rd.
Status: Complete

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

Description: 3.3-mile water pipeline from WRWTP to intersection of SW Garden Acres Rd. at Day Rd.
Status: Phase 1: Complete; Phase 2: Complete; Phase 3: Construction

WTP_1.0 Willamette Water Supply System Water Treatment Plant
(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 in Sherwood.

Status: Construction (WTP, FPS, DCS)

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

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

Status: Phase 1: Complete; Phase 1.5: Complete; Phase 2: Construction

The mid-Willamette River at Wilsonville is the supply source for the WWSS. The system consists of modifying the existing river intake and expanding pumping capacity, building more than 30 miles of drinking water pipeline, reservoir storage facilities on Cooper Mountain, and a new WTP in Sherwood.

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