# 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 own, operate, manage and maintain the WWSS. 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 July 2023

# **Construction Progresses on Raw Water Facility**

The Raw Water Facility (RWF\_1.0) expands the existing raw water pump station and intake infrastructure at the Willamette River Water Treatment Plant in Wilsonville to support the new Willamette Water Supply System. The project also includes a new electrical building at the Upper Site, the area north of Arrowhead Creek Lane, to expand pumping capacity. The expansion will result in an initial 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. Construction of the final phase of RWF\_1.0 began in fall 2022 and is anticipated to complete by December 2024.



Upper Site electrical building south and west wall final CMU construction

### **RWF Summer 2023 Progress Update**

Construction activities continue to increase at the Upper Site. Recent work includes:

- Construction of walls for the new electrical building. The concrete masonry unit (CMU) block has been placed for approximately half of the building, including openings for the doors, windows, and heating, ventilation, and air conditioning HVAC.
- Coordination and detailed planning for the roof members and roof decking.
- Electrical work for the yard lighting, front gate, fiber optic cable duct banks, and conduits along a berm at the site's western edge.
- Pouring of the transformer slab after backfilling with aggregate material.
- Construction of the perimeter wall, between the Morey's Lane path and the newly constructed berm to the east. Excavation has also begun for the perimeter wall footing along a berm at the site's southern edge and east side of the property.
- Start-up and commissioning planning.



West wall of the RWF upper site electrical building with loading doors framed out



RWF concrete pads that will support the HVAC units at the Upper Site

# Project of the Month

The WWSP is well underway with all projects currently in the construction phase or complete. The photos below highlight a phase of the Scholls Ferry Area Pipeline project (PLM\_5.3). Additional information on the project is available at <a href="https://www.ourreliablewater.org/scholls-area-pipeline-project/">https://www.ourreliablewater.org/scholls-area-pipeline-project/</a>.





66-inch waterline installation north of Farmington Road

# **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 2023 to 2026\*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.



# 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.



\*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 June 2023.

Cumulative Water Supply Program costs to date are approximately \$705.9 million, with the majority spent on planning, engineering, and 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)

FPS\_1.0

DCS\_1.0

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.

### 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 0.7 miles 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

#### South Hillsboro Area Pipeline Project PLW 1.0

(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

#### **Metzger Pipeline East Project** MPE\_1.0

(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

#### **Tualatin-Sherwood Area Pipeline Project** PLM\_4.0 (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

#### Wilsonville Area Pipeline Project PLM\_1.0 (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