

Willamette Water Supply

Our Reliable Water

Willamette Water Supply System Commission Board Meeting Agenda Packet

Thursday, June 6, 2024

12:00 PM

Tualatin Valley Water District – Board Room
1850 SW 170th Ave., Beaverton, OR 97007

Willamette Water Supply System Commission

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**Willamette Water Supply System Commission
Board Meeting Agenda**

Thursday, June 6, 2024 | 12:00 - 1:30 PM

Tualatin Valley Water District – Board Room
1850 SW 170th Ave., Beaverton, OR 97003

If you wish to address the WWSS Board, please contact annette.rehms@tvwd.org to request the Public Comment Form and return it by email 48 hours prior to the day of the meeting. The meeting is accessible to persons with disabilities and those who need qualified bilingual interpreters. A request for an interpreter for the hearing impaired, a bilingual interpreter or for other accommodations should be made at least 72 hours before the meeting to the contact listed above.

EXECUTIVE SESSION – 11:30 AM

An executive session of the Board is called under, ORS 192.660(2)(f) to consider information or records that are exempt by law from public inspection and ORS 192.660(2)(h) to consult with counsel concerning the legal rights and duties of a public body with regard to current litigation or litigation likely to be filed.

REGULAR SESSION – 12:00 PM

1. CALL TO ORDER

2. ROLL CALL

3. PUBLIC COMMENT

This time is set aside for persons wishing to address the Board on items on the agenda, as well as matters not on the agenda. Each person is limited to three minutes.

4. GENERAL MANAGER'S REPORT – David Kraska

Brief presentation on current activities relative to the WWSS Commission

5. CONSENT AGENDA

These items are routine and may be approved in one motion without separate discussion. Any Board member may request that an item be removed by motion for discussion and separate action. Any items requested to be removed from the Consent Agenda for separate discussion will be considered immediately after the Board has approved those items which do not require discussion.

- A. Approve the April 4, 2024 meeting minutes
- B. Adopt Resolution WWSS-04-24 Adopting FY2024-25 WWSS Board Meeting Schedule

6. BUSINESS AGENDA

- A. Approve WWSP Program and Construction Management Services FY25 Annual Work Plan – *David Kraska*
- B. Approve Master Services Agreement (MSA) 2029-043 Task Order #6 for Public Outreach Services – *Christina Walter*
- C. Approve Contract No. 2018-014 Amendment #30 for WTP_1.0 Design – *Mike Britch*

7. INFORMATION ITEMS

- A. Water Treatment Plant Schedule Recovery Progress Update – *David Kraska*
- B. Completed Construction Project Cost Performance – *David Kraska*
- C. The next Board Meeting is scheduled on August 1, 2024, via Microsoft Teams

8. COMMUNICATIONS AND NON-AGENDA ITEMS

- A. Water Treatment Plant Construction Site Tour - 21309 SW 124th Avenue, Sherwood, OR, 97062

9. ADJOURNMENT: Meeting will be adjourned at the conclusion of tour. Time will be recorded in the meeting minutes.

Willamette Water Supply System Commission

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GENERAL MANAGER'S REPORT

To: WWSS Board of Commissioners
From: David Kraska, P.E., WWSS General Manager
Date: June 6, 2024
Subject: Willamette Water Supply System General Manager's Report

This report provides an overview of some of the current Willamette Water Supply System (WWSS) work efforts being performed under the direction of this Commission.

1. **July 4th Board Meeting** – There are no planned business agenda items, and the meeting date falls on a holiday. Therefore, we will cancel the July Board meeting “hold” on your calendars.
2. **Planned Business Agenda Items** – Currently, there are no planned business agenda items for the August meeting. Holding an August meeting is still recommended, as there are important informational items on the draft agenda: water treatment plant schedule recovery update, WWSP cost true-up, and an overview of planned business agenda items for the October Board meeting.
3. **Quarterly Financial Report** – Task 4.d. of the Annual Work Plan requires the Managing Agency to prepare quarterly financial reports and provide them to the WWSS Board as part of the packet. Attached to this General Manager's report is the WWSS quarterly financial statement for the period ending March 30, 2024.
4. **Permitting and Communications Updates** –Attached to this General Manager's Report is a tabulation of the permits and approvals recently granted, and the status of those currently in process. Here are a few highlights of recent WWSP permitting and communications activities:

Permitting highlights:

- Permitting staff submitted the final 2023 annual reports, including the report to the Oregon Department of Environmental Quality (DEQ) on the WWSP's Thermal Trading Plan. The plan fulfills the temperature offset requirement of the Clean Water Act Section 401 water quality certification related to the calculated temperature impact of the WWSP's water withdrawal from the Willamette River. This year's report is the first in which the WWSS claimed trading credits for shade enhancement work along the Willamette River in the Molalla River State Park. Following the submission of the report, staff provided a tour to give the DEQ coordinator the opportunity to see the areas where invasive knotweed has been removed to support the growth of the cottonwood tree plantings that, when fully mature, will provide shading to the river and help to reduce water temperature.
- After almost three years in development, staff completed the Willamette Intake Facilities (WIF) Commission Watershed Protection, Monitoring, and Outreach Plan for the Willamette River. The plan is the first step in implementing the WIF mission “to responsibly secure a safe and reliable Willamette River drinking water supply for our communities.” The plan includes recommended actions for Willamette River watershed monitoring and protection, an implementation plan and timeline, a matrix of potential funding mechanisms, and key performance indicators for measuring success. Staff and the WIF board will use the plan to set priorities, make decisions, and prioritize watershed work in the years

to come. The WIF Fiscal Year 2025 budget includes the first implementation activities focused on the highest-priority pollutant risks identified in the plan.

Communications highlights:

- Staff finalized production of the 2023 WWSP Accomplishments Video. The video highlights the major milestones and efforts from 2023 and provides a look ahead to the future. The video has been shared publicly through the WWSP newsletter and via the Program website (www.OurReliableWater.org), including a Spanish version.
- Communication staff from WWSP and each partner agency continue to develop the Water Supply Integration Communication Plan, with completion anticipated this fall. WWSP's consultant, Water Systems Consulting (WSC), recently held a workshop for staff to develop master illustrations and branding centered around the tagline "High quality. Every day." which will be used in the informational campaign that will begin in early 2025 and run through 2026.

- 5. Construction Progress Update** – Attached to this General Manager's Report is a tabulation of the status of all the active construction projects. To provide a more complete understanding of the work underway, we will share a presentation of recent photos from the construction sites.

Willamette Water Supply Program Permits and Approvals – Recent Actions and Status

Date of Report: May 23, 2024

Permits and Approvals Recently Granted

Agency	Project	Permit or Approval Granted
Clean Water Services	System-wide	Annual report
Oregon Department of Environmental Quality	System-wide	Thermal Trading Plan annual report
Oregon State Historic Preservation Office	System-wide	Annual report
ODFW	System-wide	Wildlife salvage permit
Washington County	MPE_1.2	ROW access permit renewal, ROW utility permit renewal
BPA	PLM_1.3	Land use agreement
City of Sherwood	WTP_1.0	Retaining wall permit
Clean Water Services	CSU	Temporary sanitary discharge permits (8)

Permits and Approvals Submitted

Agency	Project	Permit or Approval Submitted
Washington County	PLM_5.3	ROW access renewal (8), ROW utility renewal (1)
Washington County	RES_1.0	ROW access renewal (2), ROW utility renewal (1)
City of Wilsonville	RWF_1.0	Building permit - canopy
Oregon Department of Consumer & Business Services	RWF_1.0	Air burst tank permits (2)
Washington County	MPE_1.2	ROW access permit renewal, ROW utility permit renewal
Clean Water Services	CSU	Temporary sanitary discharge permits (8)
Washington County	RES_1.0	Fire alarm permit

Permits and Approvals in Progress

Agency	Project	Permit or Approval in Progress
Washington County	CSU	Land use application
Washington County	PLM_4.2	Cipole night variance
DEQ	WTP_1.0	Air quality permit

Anticipated Approvals

Agency	Project	Permit or Approval Anticipated
Washington County	PLM_4.2	Cipole night variance
Washington County	RES_1.0	Generator pad, Fire alarm permit
TVF&R	RWF_1.0	LPG tank plan review
TVF&R	WTP_1.0	Hazardous materials management plan approval
DEQ	WTP_1.0	Air quality permit
Clean Water Services	CSU	Preliminary approval of temporary sanitary discharge permits (8)

Willamette Water Supply Program Projects in Construction – Recent Status Update

Date of Report: May 23,2024

Project	Description	Current and Planned Activities:
1. RWF_1.0	Raw Water Facilities project located at the Willamette River Water Treatment Plant in Wilsonville	<ul style="list-style-type: none"> - Upper Site bioswales, sitework and landscaping. - Site perimeter fence and entrance gate complete. - Interior and exterior HVAC ducting and controls. - Installing lighting panels and lighting fixtures, pulling conductors. - Installing security system conduits throughout USEB. - Completion of interior finishes throughout the Emergency Control Room. - Completed vertical turbine pump bases and discharge headers in RWPS. - Factory testing of RW vertical turbine pumps & VFDs scheduled for June. - PGE continuing work on 1.5MW electrical feeder project into site.
2. PLM_1.3	Raw water pipeline project in Wilsonville from Wilsonville Road to Garden Acres Road	<ul style="list-style-type: none"> - 66-inch waterline installation on south end of 95th Ave. - Approximately 8500 LF of 66” waterline installed (70% of total). - Continue restoration of concrete pavement on Kinsman Rd. - Begin Schedule B turn lane improvements at Wilsonville Rd.
3. WTP_1.0	Water Treatment Plant project, located in City of Sherwood, near the intersection of SW Tualatin-Sherwood Road and SW 124 th Avenue	<ul style="list-style-type: none"> - Area 03 (Site Work): Gabion Wall, Yard Pipe & Storm Drain Systems. - Area 08 (Admin Building): Structural Steel Framing, Metal Deck, Exterior Walls. - Area 22 (Flash Mix): Overflow channel walls, deck, and masonry walls. - Area 25 (Ozone Generation): Elevator/Stairwell walls and SOG. - Area 26 (Ozone Contactor) Continue full height wall system. - Area 28 (Filters): Concrete walls. - Area 30 (UV): Continue masonry walls and exterior framing. - Area 34 (Chemical Building): Chemical delivery canopy foundations. - Area 35 (Clearwell): Concrete placements at roof deck. - Area 37 (EQ basin): Backfill. - Area 40 (Thickeners): Rebar and concrete walls. - Area 52 (Thickened Sludge Pump Station): Exterior framing. - Area 53 (FWPS): Under slab pipe systems.
4. PLM_4.2	Finished water pipeline project being completed in partnership with Washington County’s Tualatin-Sherwood Road Project, (WWSS pipeline from Langer Farms Parkway to SW 124 th Avenue, Washington County work continues east to Teton Avenue)	<ul style="list-style-type: none"> - Open-cut pipeline has been installed from 124th Ave. to near Oregon St. - Several appurtenances have been installed. - Total of 2,628 LF of pipe installed (37% of total).
5. PLM_4.1	Finished water pipeline project being completed in partnership with Washington County’s Highway 99 Crossing Pipeline and Tualatin-Sherwood Road – Langer Farms Parkway to Borchers Drive	<ul style="list-style-type: none"> - WWSP work is complete except for small items. - Roadway grind and final paving this summer.

Project	Description	Current and Planned Activities:
6. PLM_4.4	Finished water pipeline project being completed in partnership with Washington County’s Roy Rogers Road – Chicken Creek to Borchers Drive	<ul style="list-style-type: none"> - CWS sewer force main currently being installed. - WWSP work is complete except for minor items.
7. PLM_4.3	Finished water pipeline project in unincorporated Washington County along Roy Rogers Road	<ul style="list-style-type: none"> - Completed all 66-inch waterline installation, with exception of end connections. - Continuing appurtenance installation. - Preparing to fill and pressure test all pipeline sections.
8. RES_1.0/ PLM_5.3	Water Storage Tank and finished water pipeline project in rural Washington County. Tank site at SW Grabhorn Road and Stonecreek Drive. Pipeline extends from SW Grabhorn Road at SW Tile Flat Road to SW Rosedale Road at future Cornelius Pass Extension	<p>RES_1.0:</p> <ul style="list-style-type: none"> - Completed pre-stressing and shotcrete application of the water tank. - Continued plumbing and mechanical piping installation in vaults. - Continued electrical & chemical duct bank installations. - Water Quality Building interior systems. <p>PLM_5.3:</p> <ul style="list-style-type: none"> - Continued appurtenance and cathodic protection system installations. - Continued easement restoration.
9. PLW_1.2	Finished water pipeline project being completed in partnership with Washington County’s Cornelius Pass Road project between Frances Street and Tualatin Valley Highway	<ul style="list-style-type: none"> - Installing coatings on turnout vault piping. - Procurement of valve actuator battery backup. - Deficiency list items. - Planning for Substantial Completion with Washington County.
10. PLW_2.1	Finished water pipeline project in Hillsboro. Cornelius Pass Road (Orenco Woods Nature Park to NE Cornelius Pass Road at NE Cherry Drive)	<ul style="list-style-type: none"> - Orenco Woods Nature Park trail improvements/restoration. - Final grading along pipeline alignment. - Cherry Dr. stormwater installation. - 48-inch waterline appurtenances - concrete work. - Cornelius Pass Rd. pavement restoration. - Cathodic protection system installation.
11. MPE_1.1/ COB_1.1	Finished water pipeline project being completed in partnership with the City of Beaverton’s SW Western Avenue project	<ul style="list-style-type: none"> - Washington County Supply Line (WCSL) tie-in work completed. - Beaverton-Hillsdale Highway traffic control removed. - Pavement restoration complete. - Final striping, punch list and project closeout work.
12. MPE_1.2/ COB_1.2	Finished water pipeline project in Beaverton from SW Scholls Ferry Road at Greenway Park to SW Allen Boulevard at Western Avenue	<ul style="list-style-type: none"> - Continued PFC building mechanical, HVAC, electrical. - Testing and disinfection of 48-inch waterline. - Connection to MPE_1.1. - Site and road restoration.
13. MPE_1.3	Finished water pipeline project on Scholls Ferry Road from Roy Rogers Road to Greenway Park	<ul style="list-style-type: none"> - 48-inch waterline installation on Scholls Ferry Rd. <ul style="list-style-type: none"> - Heading west near Murray Blvd. (night work). - Heading east near Barrows (day work). - Barrows Rd. Sewer Relocation. - Roy Rogers Road Turnout Vault. - PGE relocations.

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Willamette Water Supply System
For the annual budget period ending June 30, 2024
For the quarter ended March 31, 2023

Activity for the Quarter			Unaudited	Annual				
Budget	Actual	Variance		Annual Budget	Budget To date	Actual	Variance	Remaining Budget
			Revenues					
\$ 385,218	\$ 267,165	\$ (118,053)	Admin Services	\$ 1,540,870	\$ 1,155,653	\$ 478,679	\$ (676,973)	\$ 1,062,191
	25,000	25,000	Miscellaneous Income			25,000	25,000	\$ (25,000)
105,237,985	170,050,461	64,812,476	Capital contributions	420,951,940	315,713,955	274,522,326	(41,191,629)	146,429,614
\$ 105,623,203	\$ 170,342,626	\$ 64,719,423	Total Revenues	\$ 422,492,810	\$ 316,869,608	\$ 275,026,005	\$ (41,843,602)	\$ 147,466,805
			Expenditures					
\$ 350,218	\$ 292,165	\$ 58,053	Materials and Services	\$ 1,400,870	\$ 1,050,653	\$ 503,679	\$ 546,973	\$ 897,191
105,237,985	170,050,461	(64,812,476)	Capital Outlay	420,951,940	315,713,955	274,522,326	41,191,629	146,429,614
35,000	-	35,000	Contingency	140,000	105,000	-	105,000	140,000
\$ 105,623,203	\$ 170,342,626	\$ (64,719,423)	Total Expenditures	\$ 422,492,810	\$ 316,869,608	\$ 275,026,005	\$ 41,843,602	\$ 147,466,805

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4. Willamette Water Supply Program Construction Progress Update

WWSS Board Meeting
June 6, 2024

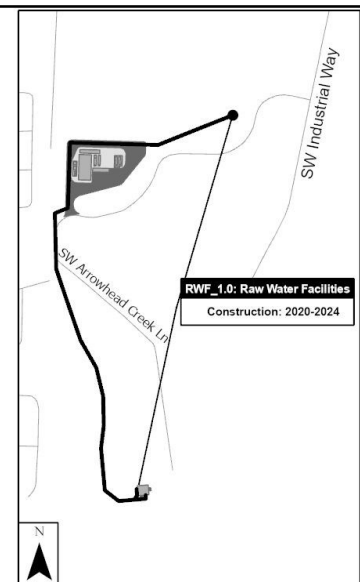
1

RWF_1.0 (GMP-2)

Contractor: Kiewit Infrastructure West Co.
Designer: Black & Veatch

Current and Planned Activities:

- Upper Site bioswales, sitework and landscaping
- Site perimeter fence and entrance gate complete
- Interior and exterior HVAC ducting and controls
- Installing lighting panels and lighting fixtures, pulling conductors
- Installing security system conduits throughout USEB
- Completion of interior finishes throughout the Emergency Control Room
- Completed vertical turbine pump bases and discharge headers in RWPS.
- Factory testing of vertical turbine pumps & VFDs scheduled for June
- PGE continuing work on 1.5MW electrical feeder project into site



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Construction Photos – RWF_1.0 (GMP-2)



3

Construction Photos – RWF_1.0 (GMP-2)

Connected 30"
Surge Tanks piping
to 66" RW
transmission main



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05/01/2024 07:25

4

Construction Photos – RWF_1.0 (GMP-2)

Installing ceiling-mounted and wall-mounted conduits, lighting, etc. throughout the Upper Site Electrical Building



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Construction Photos – RWF_1.0 (GMP-2)

RWPS: Two completed pump bases and new wall spool pipe connections



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PLM_1.3

Contractor: Moore Excavation Inc.
Designer: HDR

Current and Planned Activities:

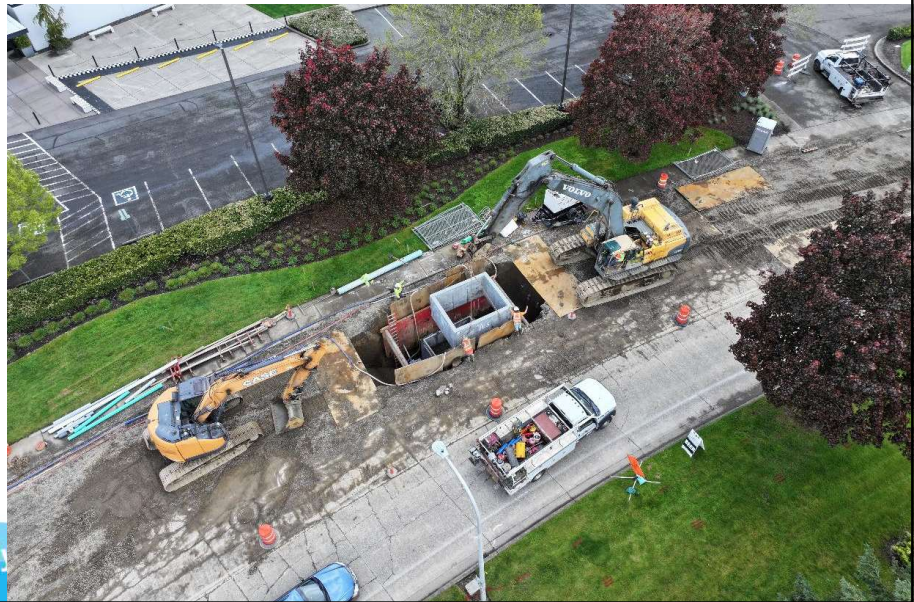
- 66-inch waterline installation on south end of 95th Ave.
- Approximately 8500 LF of 66" waterline installed (70% of total)
- Continue restoration of concrete pavement on Kinsman Rd.
- Begin Schedule B turn lane improvements at Wilsonville Rd.



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Construction Photos - PLM_1.3

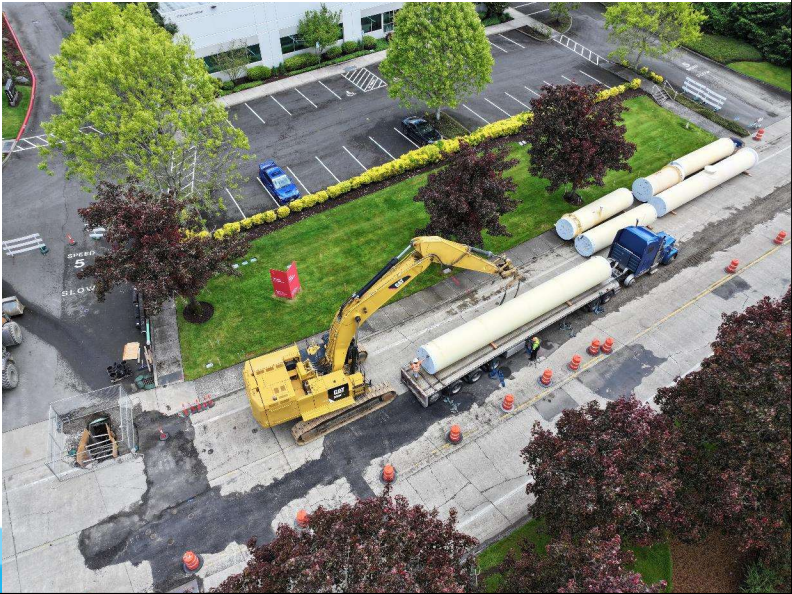
Appurtenance vault installation over 66-inch waterline in 95th Ave.



8

Construction Photos - PLM_1.3

Delivery of remaining 1000 LF of 66-inch waterline for installation at south end of 95th Ave.



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Construction Photos - PLM_1.3

Preparation for permanent concrete pavement restoration on Kinsman Rd.



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Construction Photos - PLM_1.3

Concrete placement for pavement restoration on Kinsman Rd.



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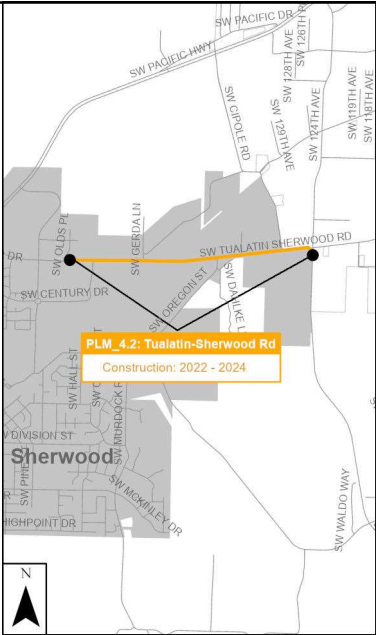
11

PLM_4.2

Partner: Washington County
Contractor: Kerr/Emery JV
Designer: Brown & Caldwell

Current and Planned Activities:

- Open cut pipe has been installed from 124th Ave. to near Oregon Street
- Several appurtenances have been installed
- 2,628 LF of pipe installed (37% of total)



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Construction Photos – PLM_4.2

Setting precast structure for blowoff assembly at 124th Ave. and Tualatin-Sherwood Road.

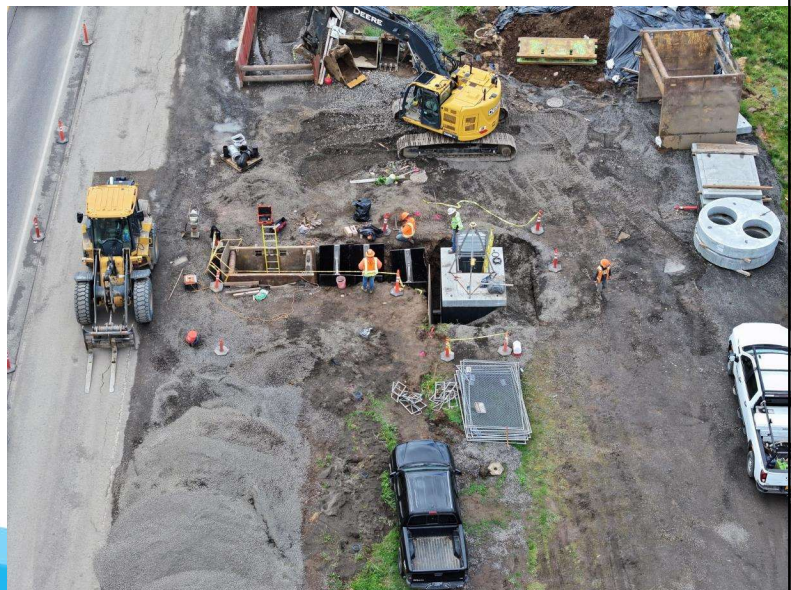


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Construction Photos – PLM_4.2

Installing CARV-1 piping and vault along Tualatin-Sherwood Road.



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PLM_4.1

Partner: Washington County
Contractor: Moore Excavation Inc.
Designer: Brown & Caldwell

Current and Planned Activities:

- WWSP work is complete except for smaller scope items
- Roadway grind and final paving this summer



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Construction Photos – PLM_4.1

Road widening of Tualatin-Sherwood Road near Baler Way



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PLM_4.4

Partner: Washington County
Contractor: Tapani Inc.
Designer: Brown & Caldwell

Current and Planned Activities:

- CWS sewer force main currently being installed
- WWSP work complete except for smaller scope items



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Construction Photos – PLM_4.4

Clean Water Services sewer force main construction



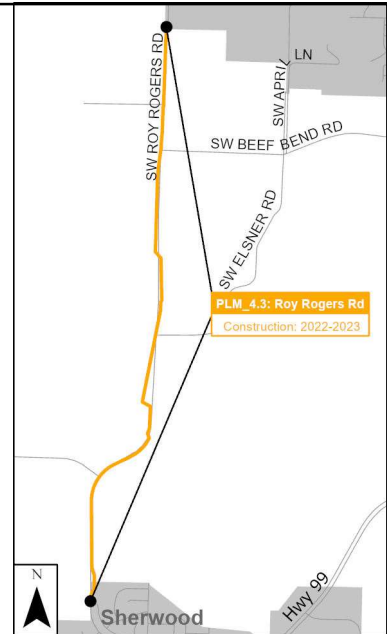
18

PLM_4.3

Contractor: Tapani Inc.
Designer: Brown & Caldwell

Current and Planned Activities:

- Completed 66-inch waterline installation except for end connections
- Continuing appurtenance installation
- Preparing to fill and pressure test pipeline



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Construction Photos – PLM_4.3

CARV piping installation with
Flex-Tend seismic/expansion
joint fitting



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Construction Photos – PLM_4.3

Demolished secant pile shaft wall and installation of test head for pressure testing



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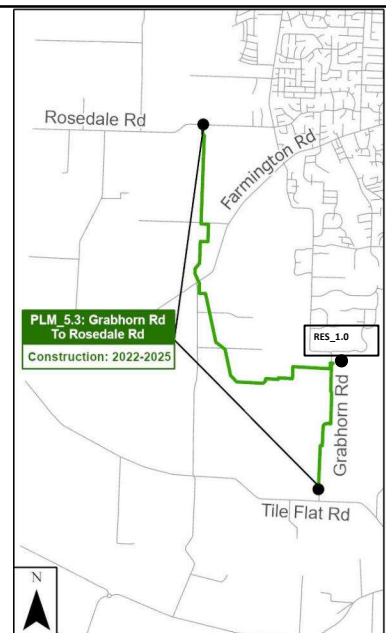
21

RES_1.0 / PLM_5.3

Contractor: Hoffman-Fowler JV
Designer: Black & Veatch / Jacobs

Current and Planned Activities:

- RES_1.0
 - Completed pre-stressing and shotcrete application
 - Continued plumbing and mechanical piping installation in vaults
 - Continued electrical & chemical duct bank installations
 - Water Quality Building interior systems
- PLM_5.3
 - Continued appurtenance and cathodic protection system installations
 - Continued easement restoration



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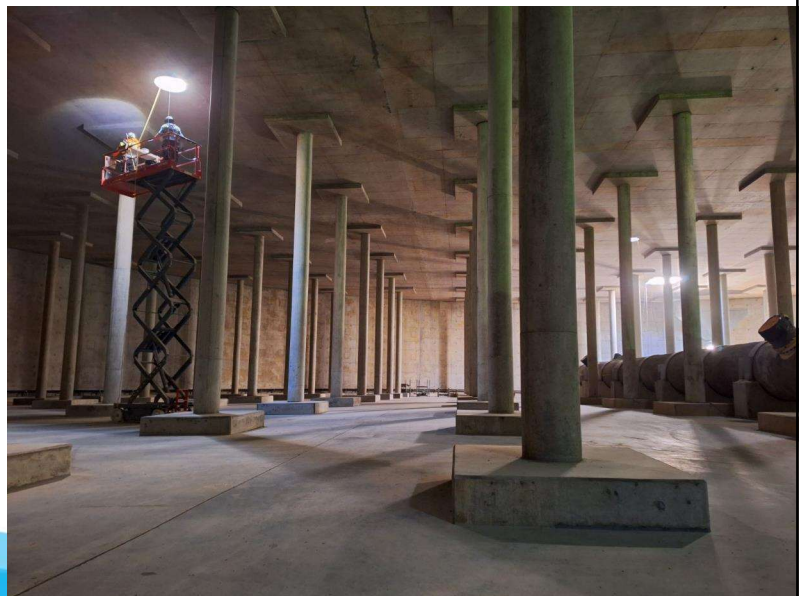
Construction Photos – RES_1.0



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Construction Photos – RES_1.0

Reservoir tank ceiling touch-up work



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Construction Photos – RES_1.0

66-inch inlet pipe to diffuser
pipe connection

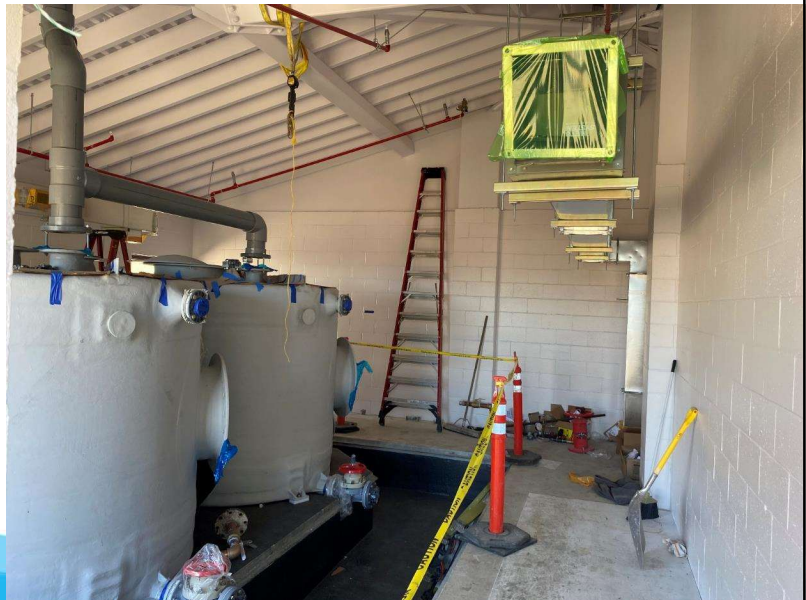


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Construction Photos – RES_1.0

Water Quality Building
chemical room – SHC tanks,
HVAC & fire suppression
system



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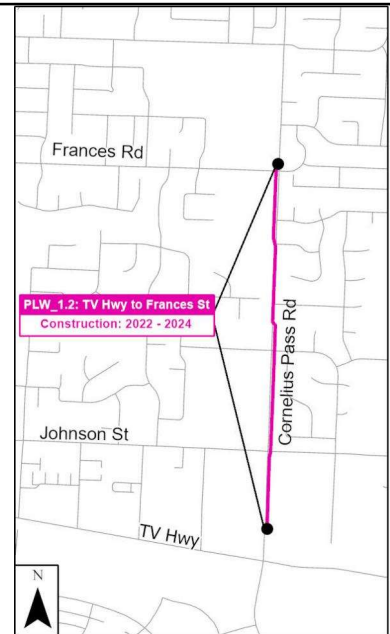
26

PLW_1.2

Partner: Washington County
Contractor: Tapani, Inc.
Designer: Kennedy/Jenks

Current and Planned Activities:

- Installing coatings on turnout vault piping
- Procurement of valve actuator battery backup
- Deficiency list items
- Planning for Substantial Completion with Washington County

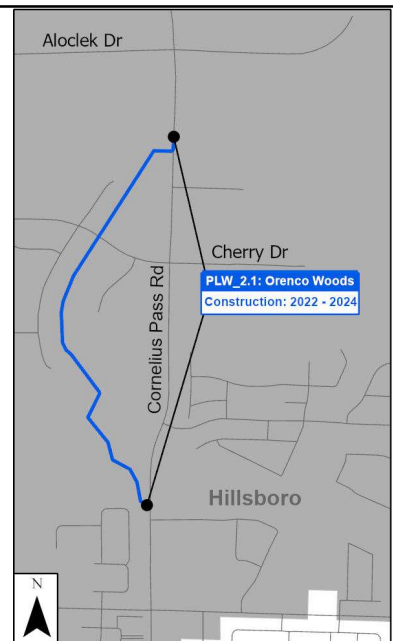


PLW_2.1

Contractor: Moore Excavation, Inc.
Designer: Kennedy/Jenks

Current and Planned Activities:

- Orenco Woods Nature Park trail improvements/restoration
- Final grading along pipeline alignment
- Cherry Dr. stormwater installation
- 48" waterline appurtenances - concrete work
- Cornelius Pass Rd. pavement restoration
- Cathodic protection system installation



Construction Photos – PLW_2.1

Subgrade prep for east trail improvements in Orenco Woods Nature Park, north of Rock Creek



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Construction Photos – PLW_2.1

Paving over 48-inch waterline in Cornelius Pass Rd.

May 13, 2024 at 12:54:22 PM
596 NE 77th Ave
Hillsboro OR 97124
United States



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MPE_1.1

Partner: City of Beaverton
Contractor: Moore Excavation Inc.
Designer: Brown & Caldwell

Current and Planned Activities:

- Washington County Supply Line (WCSL) tie-in work completed
- Beaverton-Hillsdale Highway traffic control removed
- Pavement restoration complete
- Final striping, punch list and project closeout work



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Construction Photos – MPE_1.1

Pavement milling for final paving of WCSL connection, 96th Ave at Beaverton-Hillsdale Highway.



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Construction Photos – MPE_1.1

6" CARV piping at 96th Ave.
connection



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Construction Photos – MPE_1.1

Final paving of Western Avenue /
Beaverton-Hillsdale Highway
intersection



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MPE_1.2

Contractor: Emery & Sons
Designer: Brown & Caldwell

Current and Planned Activities:

- Continued PFC building mechanical, HVAC, electrical
- Testing and disinfection of 48-inch waterline
- Connection to MPE_1.1
- Site and road restoration



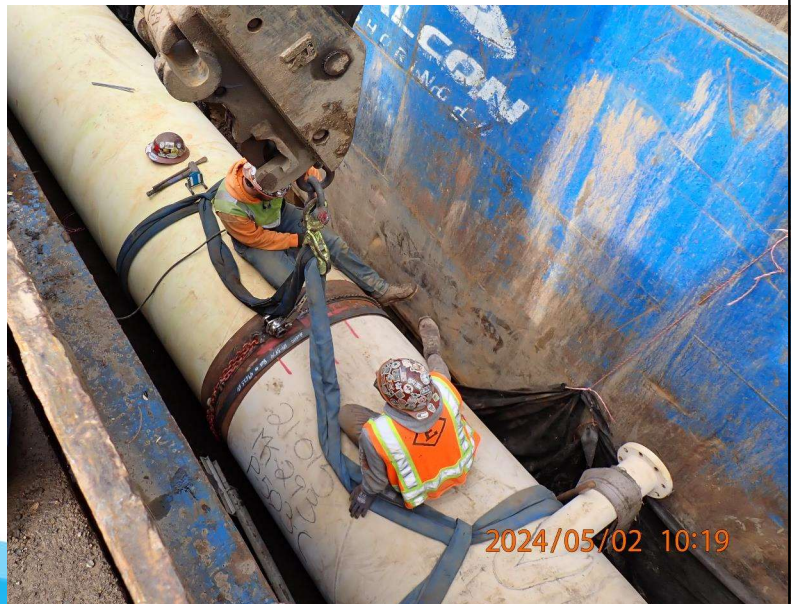
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Construction Photos – MPE_1.2

Final section of 48" waterline
on Scholls Ferry Rd. near
Denney Rd.



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Construction Photos – MPE_1.2

PFC facility – parking lot paved



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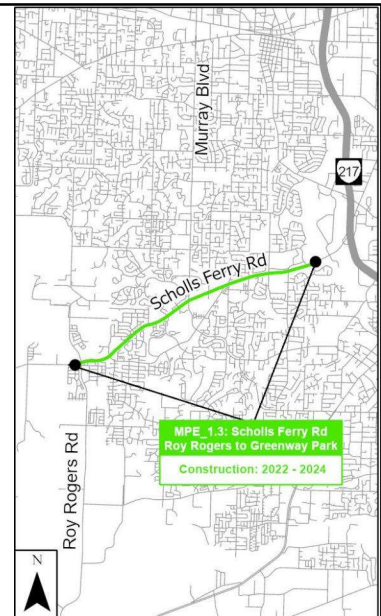
37

MPE_1.3

Contractor: Emery & Sons
Designer: Brown & Caldwell

Current and Planned Activities:

- 48" waterline installation on Scholls Ferry Rd.
 - Heading west near Murray Blvd. (night work)
 - Heading east near Barrows (day work)
- Barrows Rd. sewer relocation
- Roy Rogers Road turnout vault
- PGE relocations



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Construction Photos – MPE_1.3

48-inch waterline installation
on Scholls Ferry Rd. near
Murray Blvd.

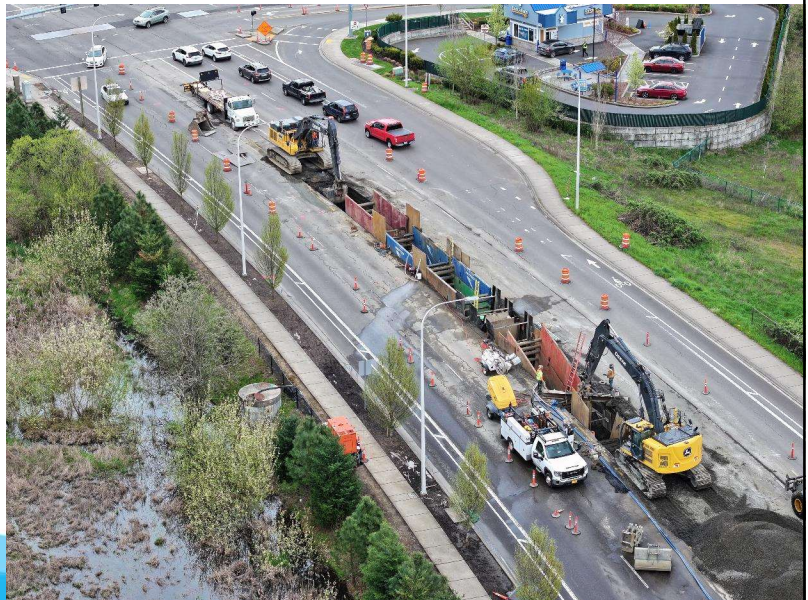


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Construction Photos – MPE_1.3

48-inch waterline installation
on Scholls Ferry Rd. near
Barrows Rd.



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**Willamette Water Supply System Commission
Board Meeting Minutes
Thursday, April 4, 2024
Microsoft Teams**

Attendance:

Commissioners present:

City of Beaverton	Nadia Hasan, Edward Kimmi (<i>alternate</i>)
City of Hillsboro	David Judah
Tualatin Valley Water District (TVWD)	Jim Duggan

Committee Members present:

City of Beaverton	Tim Elsea, David Winship
City of Hillsboro	Niki Iverson, Lee Lindsey
TVWD	Paul Matthews

Managing Agency Staff present:

WWSS Commission General Manager / Willamette Water Supply Program (WWSP) Director	David Kraska
Cable Huston - WWSS Legal Counsel	Clark Balfour (<i>alternate</i>)
WWSP Assistant Director	Joelle Bennett
TVWD Chief Financial Officer	Justin Carlton
WWSP Permitting and Outreach Manager	Christina Walter
WWSP Engineering and Construction Manager	Mike Britch
WWSP Program Manager	Andre Tolme
WWSP Deputy Program Manager	Jill Chomycia
WWSS Commission Recorder / WWSP Exec. Assistant	Annette Rehms

Other Attendees present:

Hillsboro staff	Chris Wilson, Negar Niakan
TVWD staff	Joel Cary, Matt Oglesby
WWSP staff	Scott Gibson

REGULAR SESSION – 12:00 PM

1. CALL TO ORDER

Chair Duggan called the regular Willamette Water Supply System (WWSS) Commission meeting to order at 12:00 PM.

2. ROLL CALL

Ms. Rehms administered the roll call and noted a quorum was present.

Commissioner Kimmi (*City of Beaverton alternate*) was present during roll call. Commissioner Hasan joined the meeting just after roll call. As primary member, Commissioner Hasan will be the voting member for the meeting.

3. PUBLIC COMMENT

There were no public comments.

4. GENERAL MANAGER'S REPORT

The General Manager's report included a reminder that the June Board meeting will be held in-person with a water treatment plant tour to follow, a notification that starting in June the approvals and procurement forecast will no longer be included in the board packet, and updates on Willamette Water Supply Program (WWSP) permitting, communications, and construction activities. (*presentation on file*)

5. CONSENT AGENDA

- A. Approve the February 1, 2024 meeting minutes
- B. Adopt Resolution WWSS-01-24 Approving a Technical Correction to the Congressionally Directed Spending Grant

Motion was made by Judah and seconded by Hasan to approve the Consent Agenda as presented. The motion passed unanimously with Commissioners Hasan, Judah, and Duggan voting in favor.

6. BUSINESS AGENDA

- A. Adopt Resolution WWSS-02-24 adopting WWSS Cost Shares Methodology – *Justin Carlton*

Mr. Carlton reviewed the WWSP Performance Audit objectives, results, and recommendation. He provided background on cost shares history and categories and reviewed the 2024 cost shares methodology timeline.

Motion was made by Hasan, seconded by Judah, to adopt Resolution No. WWSS-02-24 adopting the Willamette Water Supply System (WWSS) Cost Shares Methodology as described in the Willamette Water Supply System Cost Share Calculations Report. The motion passed unanimously with Commissioners Hasan, Judah, and Duggan voting in favor.

- B. Adopt Resolution WWSS-03-24 Adopting WWSS Fiscal Year 2024-25 Annual Work Plan and Budget and Approving WWSP Capital Improvement Plan (Baseline 9.1) – *Justin Carlton*

Mr. Carlton presented an overview of the baseline development process and differences between WWSP contingency and management reserve. He provided an overview of the proposed Capital Improvement Plan (Baseline 9.1), a Baseline 8.1 and Baseline 9.1 cost comparison, estimated partner cost summary, and provided examples of fixed and incremental assets and how those classifications affect partner cost shares. He reviewed the proposed Fiscal Year 2024-25 WWSS Annual Work Plan and Budget. He explained that the total value of this year's proposed Baseline 9.1 is the same as Baseline 8.1, and the FY 2024-25 budget includes appropriations for operations, administration, capital outlay, and general operation contingency. (*presentation on file*)

In response to questions, not all fixed and incremental costs have been accounted for at this time. Approximately six percent of Water Treatment Plant (WTP) costs are unclassified, generally from contingency budgets, meaning we do not know what category the cost will fall into until change orders are executed. Most of the elements within the WWSP are being constructed for their ultimate capacity and do not have incremental capacity components. Pipelines are constructed to 100 percent capacity (fixed costs), while the Water Treatment Plant and the Raw Water Facilities are constructed with some assets constructed at 100 percent capacity (fixed costs) and some are built based on current capacity (incremental costs).

In response to questions, staff will prepare a cost true-up presentation for the August or October 2024 board meeting.

Motion was made by Hasan, seconded by Judah, to adopt Resolution No. WWSS-03-24 adopting the Willamette Water Supply System (WWSS) Annual Work Plan and Budget for Fiscal Year 2024-25 and approving the Willamette Water Supply Program (WWSP) Capital Improvement Plan (Baseline 9.1). The motion passed unanimously with Commissioners Hasan, Judah, and Duggan voting in favor.

C. Approve Permitting Services Contract 2016-320 Amendment #43 – *Christina Walter*

Ms. Walter provided an overview of amendment #43 for permitting services with David Evans and Associates, Inc. She reviewed the new activities anticipated in this amendment, major components of the proposed contract, and the budget impacts. The contract value was anticipated in Baseline 9.1. (*presentation on file*)

Motion was made by Judah, seconded by Hasan, to approve Amendment #43 to Contract No. 2016-320 with David Evans and Associates, Inc., of up to \$818,510.50, to provide permitting services for the Willamette Water Supply Program through April 18, 2025. The motion passed unanimously with Commissioners Hasan, Judah, and Duggan voting in favor.

Commissioner Hasan left the meeting at 1:30 PM. Commissioner Kimmi represented the City of Beaverton for the remainder of the meeting.

7. INFORMATION ITEMS

A. Water Treatment Plant Schedule Recovery Progress Update – *David Kraska*

Mr. Kraska provided definitions of the terms commissioning and startup. He provided an overview of WTP_1.0 Commissioning and Start-up (CSU), Willamette Water Supply System (WWSS) CSU, and Water Supply Integration (WSI). He outlined the WTP and WWSS completion timeline, status of the commissioning schedule, Sundt’s rebaseline schedule, and a summary of the new “unmitigated” schedule. The discussion concluded with next steps which included evaluating schedule mitigation options and establishing additional controls to better manage schedule. Topics for future Management Committee and Board reports on the WTP project include completion date status, milestone performance, and recovery cost discussions.

In response to questions, staff said potential recovery costs will be vetted through the finance and management committees as well as the Board.

B. Planned June Business Agenda items – *Joelle Bennett*

Ms. Bennett presented information on the business agenda items planned for the June WWSS Commission Board Meeting. The upcoming action items’ costs are already included in Baseline 9.1.

Staff anticipate the following business agenda items:

1. WTP_1.0 GMP No. 3 Contract for Construction
2. WWSP Program and Construction Management Services FY25 Annual Work Plan
3. Public Outreach Services Contract for FY25
4. WTP_1.0 Design Services Contract Amendment
5. DCS_1.0 Contract Specific Special Procurement

C. The next Board meeting is scheduled on June 6, 2024, Tualatin Valley Water District – Board Room

8. COMMUNICATIONS AND NON-AGENDA ITEMS

A. None scheduled.

9. ADJOURNMENT

There being no further business, Chair Duggan adjourned the meeting at 1:45 PM.

James Duggan, Chair

David Judah, Vice Chair

STAFF REPORT

To: WWSS Board of Commissioners
From: David Kraska, P.E., WWSS General Manager
Date: June 6, 2024
Subject: Fiscal Year 2024-25 Board Meeting Dates and Meeting Location

Requested Board Action:

Consider adopting a resolution establishing regular meeting dates for the Willamette Water Supply System (WWSS) Commission Board of Commissioners for Fiscal Year (FY) 2024-25.

Key Concepts:

This action will provide specific meeting dates for the WWSS Commission Board to conduct business (per WWSS Intergovernmental Agreement (IGA) Article 5.2).

Background:

Meeting Frequency

To conduct regular business of the WWSS Commission, the Board of Commissioners needs to set regular business meeting dates. Section 5.2 of the WWSS IGA requires that the Board of Commissioners meet no less than quarterly each year. Staff propose continuing the FY2023-24 schedule by meeting on the first Thursday of every-other-month, on even-numbered months. To allow for flexibility, placeholder appointments will be scheduled for the odd-numbered months, and additional meetings may be added to the official calendar if needed.

Meeting Location

For the past four years, the Board of Commissioners has been meeting online, using tools like Microsoft Teams. Staff recommend that meetings continue using online meeting tools.

Budget Impact:

None

Staff Contact Information:

Dave Kraska, P.E., WWSS General Manager, 503-941-4561, david.kraska@tvwd.org

Attachments:

- Resolution WWSS-04-24

Willamette Water Supply System Commission

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RESOLUTION NO. WWSS-04-24

A RESOLUTION ESTABLISHING REGULAR MEETING DATES OF THE WILLAMETTE WATER SUPPLY SYSTEM BOARD OF COMMISSIONERS FOR FISCAL YEAR 2024-25.

WHEREAS, Article 5.2 of the Willamette Water Supply System Intergovernmental Agreement requires the Board of Commissioners to generally meet monthly, but in no event less than quarterly; and,

WHEREAS, the Board of Commissioners wishes to set its regular meeting calendar by resolution, and being advised,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF THE WILLAMETTE WATER SUPPLY SYSTEM COMMISSION:

Section 1: The regular meetings of the Commission shall be held on the following dates:

August 1, 2024
 October 3, 2024
 December 5, 2024
 February 6, 2025
 April 3, 2025
 June 5, 2025

Section 2: Regular meeting dates may be changed by a motion of the Board. Special meetings may be called by the Chair or by any two Commission members.

Section 3: The regular or special meetings shall be held virtually unless otherwise noticed. Meetings will start at 12:00pm.

Section 4: All Commission meetings will be advertised as required and conducted in accordance with the Oregon Public Meetings law, ORS 192.610 to 192.710.

Approved and adopted at a regular meeting held on the 6th day of June 2024.

James Duggan, Chair

David Judah, Vice Chair

Willamette Water Supply System Commission

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STAFF REPORT

To: Board of Commissioners
From: David Kraska, P.E., WWSS General Manager
Date: June 6, 2024
Subject: Program and Construction Management Support Services FY25 Annual Work Plan

Requested Board Action:

Consider approving an Annual Work Plan (AWP) for Stantec Consulting Services, Inc. (Stantec), to provide Program and Construction Management Support Services during Fiscal Year 2025 (FY2025).

Key Concepts:

- Implementing the Willamette Water Supply Program (WWSP) requires substantial assistance from a consultant with expertise and personnel to provide program and construction management support services.
- The proposed AWP identifies Stantec’s planned services, planned staffing, estimated fees, and key assumptions for delivery of program and construction management support services for the WWSP for FY2025.
- This AWP corresponds to the planned WWSP activities and milestones in Baseline 9.1 and fulfills the requirements and intent of WWSP Agreement No. WWSP-0715 (as amended).
- The proposed FY2025 AWP authorization request is \$21,619,462 is within Baseline 9.1.

Background:

Stantec¹ was selected, through a competitive process that included qualifications, approach, and cost, to provide the WWSP with program management support services. The program management support services contract was approved and awarded in July 2015. Stantec was also selected, through a separate competitive process that included qualifications, approach, and cost, to provide the WWSP with construction management support services. The construction management support services were added to the program management support services contract via an amendment approved and awarded in October 2017. The program and construction management support services contract has a total term of 11.5 years (ending December 31, 2026). The contract establishes a comprehensive scope of services to support the WWSP over the term of the contract. Planned services, planned staffing, estimated fees, and key assumptions for delivery of program and construction management support services are defined and authorized on a fiscal year basis through an AWP.

The annual WWSP baseline budget and schedule update process forecasts WWSP costs through the life of the program. Planned program and construction management support services correspond to the activities and milestones identified in the WWSP Master Program Schedule and Budget Baseline. Program and construction management support needs may change as the WWSP enters its final two years. The FY2025 Program and Construction Management AWP is based on Baseline 9.1 that was approved by the Willamette Water Supply

¹ Stantec Consulting Services Inc. purchased MWH Americas, Inc., which was the originally contracted firm. The assignment of WWSP Agreement No. WWSP-0715 from MWH Americas, Inc. to Stantec was recognized via a contract amendment in October 2017 (“WWSP-0715 (as amended)”).

System (WWSS) Commission Board at its April 4, 2024, meeting and includes services for each of the following work categories:

1. General Program Management
2. Risk Management
3. Procurement and Contract Administration
4. Quality Assurance
5. Program Controls and Document Management
6. Design Management
7. Construction Management, Construction Inspection, & Safety/Security
8. Facility Testing and Commissioning
9. Permitting Support
10. Land and Right-of-Way Acquisition Support
11. Public Outreach and Public Affairs Support

WWSP projects (or work packages) with substantial anticipated activities for the FY2025 AWP period are as listed in the table below.

Projects in Design	Projects in Construction
No design activity, other than design-related support for construction, commissioning, and start-up, is planned for this period	PLM_1.3 (complete construction) PLM_4.1 (complete construction with Washington County) PLM_4.2 (progress construction with Washington County) PLM_4.3 (complete construction) PLM_4.4 (complete construction with Washington County) PLW_2.1 (complete construction) MPE_1.2 (complete construction) MPE_1.3 (complete construction) RWF_1.0 (complete construction) WTP_1.0 ¹ (progress construction) RES_1.0/PLM_5.3 (complete construction)

1. WTP_1.0 includes FPS_1.0 and DCS_1.0 for purposes of the AWP.

This AWP was refined from the initial estimated budget used to develop Baseline 9.1; the changes from the initial budget led to an increase of approximately \$523,000, and are primarily as follows:

- Added IT project manager: Increase of approximately \$337,000.
- Added WTP_1.0 inspection staff: Increase of approximately \$451,000.
- Added WTP_1.0 startup/testing resource: Increase of approximately \$66,000.
- Added inspection staff for pipelines: Increase of approximately \$112,000.
- Decreased staffing on other projects: Decrease of approximately \$443,000.

This AWP represents a 12.5 percent decrease in hours and a 7 percent decrease in budget when compared to the FY2024 (current) AWP. Overall, these decreases in estimated effort reflect the anticipated completion of several construction projects in FY2025. This AWP is approximately 5.5 percent of the total planned WWSP budget for FY2025.

Budget Impact:

The proposed FY2025 AWP would authorize fees up to \$21,619,462 during FY2025. This amount is approximately \$523,000 more than the Stantec AWP amount included in WWSP Baseline 9.1 as approved by the Board on April 4, 2024, however it remains within the total Baseline 9.1 budget including project contingency budgets and will not affect Management Reserve. The table below shows the estimated distribution of the proposed budget based on cost shares presented in Baseline 9.1:

Stantec FY 2025 Program and Construction Management Services AWP Budget	\$21,619,462
<i>TVWD Estimated Share</i>	<i>\$13,538,503</i>
<i>Hillsboro Estimated Share</i>	<i>\$7,001,346</i>
<i>Beaverton Estimated Share</i>	<i>\$1,079,613</i>

Staff Contact Information:

David Kraska, P.E., WWSS General Manger; 503-941-4561; david.kraska@tvwd.org

Attachments:

- Exhibit 1: Program and Construction Management Services Fiscal Year 2024-2025 AWP

Willamette Water Supply System Commission

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DATE: December 14, 2023 (initial submittal)
 May 10, 2024 (second submittal)
 [Effective July 1, 2024]

TO: David Kraska, WWSP Program Director

FROM: Andre Tolme, WWSP Program Manager

SUBJECT: Annual Work Plan – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025),
 Willamette Water Supply Program, Agreement No. WWSP-0715 (as amended)

INTRODUCTION

This Annual Work Plan (AWP) identifies Stantec’s planned services, planned staffing, estimated fees, and key assumptions for delivery of program and construction management support services for the Willamette Water Supply Program (WWSP) for Fiscal Year 2024-2025, which extends from July 1, 2024, through June 30, 2025. This AWP fulfills the requirements and intent of the subject Agreement.

PLANNED SERVICES

Program and construction management services planned for this AWP period are identified in Table 1. We recognize that due to the complex nature and long duration of the WWSP, program and construction management support needs may change as the program progresses and new information becomes available. The planned services represent our understanding of current WWSP needs for the AWP period.

PLANNED STAFFING

Planned staffing to provide the planned services for this AWP is identified in Tables 2.1-2.4. These tables include the name, role, and planned labor hours by major program task for personnel identified for the planned services. In instances where a specific individual has not yet been identified, a role and planned labor hours are identified. Specific personnel to support the WWSP shall be identified in writing and authorized by the WWSP Program Director in accordance with Article 1.1.5 of the Agreement. The personnel and labor hours within this AWP represent our understanding of the strategic, technical, and administrative requirements for delivering the planned services. Actual requirements will vary and Stantec will adjust the staffing and distribution of labor hours within this AWP accordingly to maintain progress toward delivery of the WWSP.

ESTIMATED FEES

Estimated fees for providing the planned services using the planned staffing within this AWP are identified in Tables 3.1-3.4. These tables include planned personnel; hourly pay rate; billing rate factor; planned labor hours; and estimated fees. In instances where specific personnel have not yet been identified, an assumed hourly pay rate is included. The table also includes estimated reimbursable expenses associated with the planned services and planned personnel. Material changes to the planning represented by this AWP may result in changes to the estimated fees. Such changes would be managed in accordance with Article 5 of the Agreement.

KEY ASSUMPTIONS

This AWP is based on a number of assumptions about WWSP delivery needs during Fiscal Year 2024-2025. The following key assumptions apply to this AWP:

- Planned program and construction management services for this AWP correspond to the activities and milestones identified in the WWSP Master Program Schedule and Budget Baseline 8.1 including approved changes through November 30, 2023 (Figure 1).
- WWSP projects (or work packages) with substantial anticipated activities for the period of this AWP are as listed in the table below. The amount of construction planned for this period is reduced from the preceding year.

Projects in Design	Projects in Construction
No design activity, other than design-related support for construction, commissioning, and start-up, is planned for this period	PLM_1.3 (complete construction) PLM_4.1 (complete construction with Washington County) PLM_4.2 (progress construction with Washington County) PLM_4.3 (complete construction) PLM_4.4 (complete construction with Washington County) PLW_2.1 (complete construction) MPE_1.3 (complete construction) RWF_1.0 (complete construction) WTP_1.0 ¹ (progress construction) RES_1.0/PLM_5.3 (complete construction)

1. WTP_1.0 includes DCS_1.0 for purposes of the AWP.

- Labor hours, assumed direct labor rates, and assumed budgets for unnamed technical experts and specialists are carried within the “Program Controls and Document Management,” “Design Management,” “Facilities Commissioning and Startup,” and the “Construction Management, Construction Inspection, & Safety/Security” tasks but may be used to meet identified resource needs within any task.
- The resources and associated level of effort/estimates shown for each task may vary if the scope or timing is modified or if the level of resourcing from the Participants’ organizations is modified.
- At the direction of the Program Director, Stantec can assist the Participants with other activities/projects within the overall Statement of Work as required, should that assistance be within the budgetary limits of this AWP or an approved amendment.
- It is anticipated some work and priorities will change over the course of this AWP period. Stantec will only perform supplemental services as authorized in writing by the Program Director. Stantec will not begin any supplemental service until the Program Director has reviewed the services, proposed resources/level of effort, and estimated cost and has authorized Stantec to proceed.

APPROVAL

The WWSP Participants approve this AWP.

David Kraska, P.E.
Program Director

Date

Willamette Water Supply System Commission

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Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.2	General Program Management	<ul style="list-style-type: none"> Overall management of WWSP Delivery and resourcing in accordance with the Fiscal Year 2024-2025 Master Program Schedule and Budget Baseline Participation in WWSS and WIF Board, Management Committee, Management Team, Public Affairs, other progress, and coordination meetings 	<ul style="list-style-type: none"> Support Participants’ management of WWSP implementation as directed by the Program Director Coordinate execution of the Program Management Plan (PgMP) and delivery of WWSP in alignment with the Fiscal Year 2024-2025 Master Program Schedule and Budget Baseline Participate in ongoing leadership and management meetings Conduct regular program review meetings and monthly progress meetings with Program Director Manage program resources and provide necessary technical, management, and support resources to meet the goals and objectives of the WWSP; acquire/relocate resources as approved by Program Director Coordinate with Participants’ public outreach/affairs staff and consultants to support the outreach program Participate in Participants' leadership, Boards, City Council, and Utilities Commission meetings as requested Communicate and work with internal and external stakeholders in coordination with the WWSP Permitting and Outreach Manager Work with Participants’ legal counsel, Program Director, and other key staff to support completion and implementation of various agreements for projects as requested Maintain monthly reporting with correlating metrics for comparison and validation Prepare semi-annual Business Utilization economic benefits reports Review the PgMP and prepare an annual update to PgMP sections as needed Review and validate Stantec’s Fiscal Year 2024-2025 Annual Work Plan (in late May or early June 2024) with the Program Director to confirm that assumptions about Program needs made in January 2024 remain valid for the upcoming fiscal year 	<p>Andre Tolme Jill Chomycia Virginia Anderson Elnaz Adeh</p> <p>TBD Technical Experts and Specialists (as needed)</p>
1.3	Internal/Participants Governance Process	Included in 1.2 General Program Management and 2.3 Public Outreach and Public Affairs Support	N/A	N/A
1.4	Risk Management	<ul style="list-style-type: none"> Overall Program Active design and construction projects <p>[Estimated costs for implementing this task are included in other tasks (e.g., 1.2 Program Management and 1.5 Program Controls)]</p>	<ul style="list-style-type: none"> Execute, and identify updates and improvements where needed, Risk and Value Management Plan Participate in executing the Program Risk Management Plan Maintain separate risk registers for individual projects (Project-level) and for the Program as a whole (Program-level) Apply qualitative and quantitative methods for identification and analysis of program and project risks in terms of cost and schedule Develop program and project risk responses and mitigation strategies Use risk management process to evaluate Program and project contingencies Analyze potential or actual construction claims as needed Prepare biannually (or as otherwise requested by the Assistant Program Director) risk management information for the Program Director and Management Committee Conduct project risk reviews as indicated in the Project Delivery System Support evaluations of Notices of Intent to Change 	<p>Elnaz Adeh</p> <p>TBD Technical Experts & Specialists (as needed)</p> <p>TVWD will provide an Asst. Program Director to support this task</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.6	Procurement and Contract Administration	<ul style="list-style-type: none"> Incidental program support services as needed Amendments, changes, and close-out for existing contracts/ agreements 	<ul style="list-style-type: none"> Implement the Procurement and Contract Administration Management Plan Participate in executing the Program Controls and Document Management Plan, Construction Management Plan, Value and Risk Management Plan, the Quality Management Plan, Water Infrastructure Finance and Innovation Act (WIFIA) Compliance Plan, and the change management process Provide strategic advice and tactical support for Program procurements Maintain construction contract templates for conventional design-bid-build and Construction Manager/General Contractor Coordinate with other Program functions to address procurement needs Monitor local, state, and federal laws pertaining to procurement and contract administration. Communicate relevant changes to Participants, including recommended modifications to procurement and contract administration practices Support project completion and closeout 	<p>Doug Shermack</p> <p>TBD Technical Experts and Specialists (as needed)</p>
1.8	Quality Assurance	<ul style="list-style-type: none"> Overall Program Construction of PLM_1.3, PLM_4.1, PLM_4.2, PLM_4.3, PLM_4.4, PLW_2.1, MPE_1.3, RWF_1.0, RES_1.0-PLM_5.3, & WTP_1.0 Permitting and environmental services contract <p>[Estimated costs for implementing this task are included in other tasks (e.g., 2.1 Permitting Support, 1.10 Design Management, and 1.11 Construction Management)]</p>	<ul style="list-style-type: none"> Execute the Quality Management Plan (QMP) and identify updates and improvements where needed Establish and implement an annual schedule for reviewing compliance with WWSP QMP Review quality plans submitted by current consultants and construction contractors, and establish and implement a schedule for reviewing compliance with those plans Plan and participate in factory witness inspection for pipe fabrication as needed Plan and participate in seismic certification witness testing and otherwise support as needed Provide administrative/technical writing or graphics staff as needed Provide ongoing quality management guidance to PMO personnel Lead implementation of overall system controls and related strategies Lead activities in support of final equipping of overall system in support of commissioning and startup Support development of Standard Operating Procedures (SOPs) and related operational planning activities 	<p>Scott Gibson (Program & Design/Engineering Services During Construction)</p> <p>Andre Tolme (Construction)</p> <p>Jill Chomycia (Permitting)</p> <p>TBD Technical Specialists (as needed)</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.5, 1.9	Program Controls and Document Management	<ul style="list-style-type: none"> • Overall Program • Active contracts/agreements • Construction of PLM_1.3, PLM_4.1, PLM_4.2, PLM_4.3, PLM_4.4, PLW_2.1, MPE_1.3, RWF_1.0, RES_1.0-PLM_5.3, & WTP_1.0 	<ul style="list-style-type: none"> • Execute and identify updates and improvements where needed, Program Controls and Document Management Plan and WIFIA Compliance Plan • Maintain document management systems and procedures • Manage financial and cost reporting systems and procedures • Maintain a Master Program Schedule and Budget Baseline, including monthly updates and incorporation of approved changes • Prepare an annual reforecast of the Master Program Schedule and Budget Baseline • Submit draft budget information for fiscal year 2025-2026 (a 90%± accuracy budget recommendation is due 12/31/2024 and a final budget recommendation is due February 2025) • Perform analyses of consultant and construction contractor schedule submittals to verify alignment with contractual obligations and identify risks and inconsistency with Program objectives • Manage and support the change management process, including participating in Change Committee meetings and maintaining records of potential and actual changes • Produce standard controls reports for Management Committee, Program Director, and project teams and ad hoc reports as requested • Provide ongoing support for systems, tools, and procedures, including e-Builder maintenance, modifications, and enhancement requests • Support extension of e-Builder to partner project owners as applicable • Support development and implementation of processes to comply with conditions of the Participants' WIFIA loans • Support other Program functions as required in document, cost, and reporting needs • Support WWSS/WIF financial policy/procedure project as needed • Manage invoicing process 	<p>Doug Shermack Ellen Peterman Denise Gillam Kristina Tubbert</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a full-time document control specialist to support this task</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.10	Design Management	<ul style="list-style-type: none"> Construction of PLM_1.3, PLM_4.1, PLM_4.2, PLM_4.3, PLM_4.4, PLW_2.1, MPE_1.3, RWF_1.0, RES_1.0-PLM_5.3, & WTP_1.0 	<ul style="list-style-type: none"> Execute the Design Management Plan Participate in executing the Construction Management Plan, Value and Risk Management Plan, the Quality Management Plan, WIFIA Compliance Plan, and the change management process Manage the scope, schedule, and budget for ongoing projects Support construction management, including submittals review and change management, for listed construction projects Implement and maintain project-specific interim operational plans as projects are completed Maintain and revise Program Pipeline Design Guide as necessary (incorporate Program seismic standards) Modify and update standard details and specifications as appropriate based on experience gained during construction and integrate across all projects to maintain consistency across program Support the development or amendment of construction IGAs with Washington County (and other potential project partners) as applicable Provide Geographical Information System and Computer-Aided Drawing support as needed (assumes Participants will typically provide GIS services) Support coordination with BPA, PGE, NW Natural, and other utility stakeholders Manage system-wide planning of operations from interim to commissioning to on-going operations, and review compatibility of design to support each operational phase (this task is in conjunction with Task 1.13 Facility Testing and Commissioning) Monitor the implementation of the System Control Strategy throughout the construction phase Support emergency response plan (and other related plans) development Provide support for acquisition of spare parts including emergency repair parts Support implementation of Computerized Maintenance and Management System (CMMS) Support efforts for implementation of emergency planning and related activities Support Information Technology (IT) coordination and integration between projects and existing Participant systems Manage IT-related tasks pertaining to transition of assets from construction to operation 	<p>Scott Gibson Project Managers Assistant Project Managers</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a full-time Geographic Information Systems analyst.</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.7, 1.11, 1.12	Construction Management, Construction Inspection, & Safety/Security	<ul style="list-style-type: none"> • Construction (via WWSP contractor) of PLM_1.3, PLM_4.3, PLW_2.1, MPE_1.3, RWF_1.0, RES_1.0-PLM_5.3, & WTP_1.0 • Construction (via Washington Co. contractor) of PLM_4.1, PLM_4.2, & PLM_4.4 • WWSP health and safety program 	<ul style="list-style-type: none"> • Provide program-level and field services on the listed construction projects to: <ul style="list-style-type: none"> ○ Execute and identify updates and improvements, where needed, to the Construction Management Plan ○ Provide construction management, inspection, and oversight of materials testing ○ Provide ongoing review of standard construction details and work with Design Manager and Design Consultant to recommend, review, and implement changes ○ Execute Project Execution Plans ○ Administer construction contracts in coordination with the City of Beaverton, Washington County, and other project partners as appropriate ○ Coordinate construction management resources, including materials testing/special inspection/contractors ○ Organize and manage WWSP construction meetings and attend partner project construction meetings ○ Manage construction project documentation, including RFIs, Submittals, Work Change Directives, Design Clarifications, Daily Reports, photographs, and other construction-related correspondence ○ Support procurement of required services during construction ○ Administer construction change management process during construction ○ Review contractors' pay applications, coordinate resolution of issues, and recommend payment ○ Estimate cost of potential construction changes as needed ○ Maintain a working set of "as-built" drawings during construction ○ Conduct quantity tracking for selected progress indicators as requested (e.g., length of pipeline installed) during construction ○ Manage potential/actual contractor claims and coordinate legal services input on contractor claims ○ Manage and track overall project construction schedules and related issues ○ Manage interface and coordination between adjacent projects ○ Support the implementation of interim operational plans at the end of construction with commissioning and startup plans ○ Support periodic on-site visits to construction sites by WWSP, TVWD, Hillsboro, and Beaverton staff and others as necessary ○ Organize necessary documents and information about projects in support of project closeout • Participate in executing and updating (where needed) other Program plans, including the Design Management Plan, Value and Risk Management Plan, Quality Management Plan, Public Outreach and Stakeholder Engagement Plan, Permitting Management Plan, and Program Controls Plan • Support WWSP and Washington County contractor procurements as required • Manage WWSP Health and Safety program in accordance with WWSP Health and Safety Plan • Coordinate and assist with preparation of WWSP-related safety reports, including OSHA required reporting • Support the development and amendment of construction IGAs with Washington County (and other potential project partners) as applicable • Coordinate with all Program functions (e.g., Design and Permitting) as required • Prepare or review Opinions of Probable Construction Cost, including those associated with construction changes • Participate in Notices of Intent to Change • Participate in Program and construction reporting and make recommendations to incorporate additional reporting or delete reporting as projects progress • Support the implementation of the warranty management plan as requested 	<p>Andre Tolme Scott Gibson Chad Carlson Eric Fullan Milton Stamp John Uhrin Construction Managers, Field Inspectors, and Construction Management Specialists as identified in the tables below</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a part-time safety and security supervisor to support this task</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
1.13	Facility Testing and Commissioning	<ul style="list-style-type: none"> • Overall Program • Active design and construction projects • Water supply integration planning & operations planning <p>[Estimated hours/cost for other resources such as Design Managers, Project Managers, and permitting staff, are included in the primary tasks for those resources.]</p>	<ul style="list-style-type: none"> • Review design and construction deliverables for specified testing and training requirements and equipment selection • Participate in the development and implementation of project-specific interim operational plans as projects are completed • Lead overall WWSS operational planning and development • Develop WWSS Risk & Resilience Assessment (RRA) & Emergency Response Plan (ERP) as supplement to TVWD ERP • Develop SOPs • Lead EOM platform specification and implementation • Implement a warranty management plan • Coordinate between interim operational activities and system-wide commissioning and startup • Manage the development of the system-wide testing, commissioning, and start-up plan (prepared by the WTP CM/GC and/or other contractors. • Manage the schedule and coordination of commissioning and start-up planning and implementation. • Support refinement and application of a strategy for managing water within WWSS assets prior to placement in service • Support Construction Management with review of testing and commissioning submittal, RFIs, and design clarifications as appropriate; and documented through existing PMIS workflows • Support permitting team in obtaining approval from appropriate jurisdictions for discharge of water related to commissioning and startup • Support water supply integration planning • Support commissioning and startup activities by TVWD, Hillsboro, and Beaverton as requested • Support development of e-learning platform(s) led by TVWD and Hillsboro, as requested 	<p>Tim Tekippe Erika Murphy Scott Gibson</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD and City of Hillsboro will provide operations personnel to support this task</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
2.1	Permitting Support	<ul style="list-style-type: none"> Overall Program Construction of PLM_1.3, PLM_4.1, PLM_4.2, PLM_4.3, PLM_4.4, PLW_2.1, MPE_1.3, RWF_1.0, RES_1.0-PLM_5.3, & WTP_1.0 Commissioning and Startup 	<ul style="list-style-type: none"> Execute the Permitting Management Plan and identify updates and improvements where needed Provide strategic advice and tactical support to implement the Participants’ Permitting Strategy as required Coordinate and support management of permitting support contract(s) Track and report permitting, including land use, status in coordination with the Participants’ permitting consultant Provide technical support and preparation for workshops (typically led by Participants’ permitting consultant) with the regulatory agencies Facilitate the delivery of design and construction information to support permit (including land use) applications, supplements, amendments, and reports to be developed by the Participants’ permitting consultant Coordinate with the design and construction teams, including Participants’ permitting consultant, to reflect permitting (including land use) requirements in design deliverables and clarifications, where applicable. In coordination with the Participants’ permitting consultant, support identification and implementation of thermal offset projects per DEQ approved Thermal Trading Plan Coordinate with design and cost-estimating staff to verify regulatory and land use agency requests and proposed commitments align with other WWSP goals Assist Construction Management and Participants’ permitting consultant with addressing any permitting or compliance issues with listed construction projects Maintain a Program Formulation Summary document (as defined in the Permitting Management Plan) Incorporate permitting-related budget and schedule information (developed by Participants’ permitting consultant) into Program budget and schedule, including coordination with design and construction work In coordination with the Participants’ permitting consultant, maintain a permit (including land use) tracking database, with correlation to Master Program Schedule Serve as permitting liaison to the Program real estate team Support startup and commissioning planning and activities as necessary Support Thermal Trading Plan implementation Support Thermal Trading Plan litigation, including providing subject matter expert testimony Support the development or amendment of written agreements as required (CWS operation and maintenance plan for minor blowoffs) Assist in the transfer of data/uploading of permitting conditions/obligations to TVWD water quality monitoring software (KLIR) in coordination with the Participants’ permitting consultant, as applicable 	<p>Jill Chomycia Meredith Hewett</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a full-time permitting and outreach manager to support this task</p>
2.2	Land and Right-of-Way Acquisition Support	<ul style="list-style-type: none"> Overall Program <p>[Estimated costs for implementing this task are included in other tasks (e.g., 2.3 Public Outreach and Public Affairs Support (Marciniak); 1.5/1.9 Program Controls and Document Management (Shermak)]</p>	<ul style="list-style-type: none"> Support Participants’ execution of the Real Estate Plan and identify updates and improvements where needed Assist Participants and Participants’ real estate consultant in the resolution of issues affecting acquisition of land, rights-of-way (ROWs) and easements Support Participants’ real estate consultant’s maintenance of a database to track rights-of-entry (ROEs), appraisals, and property/easement acquisitions Support finalization of acquisition phase and development of property management processes 	<p>David Marciniak (property-owner contacts support)</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a full-time project coordinator to support this task</p>

Table 1. Planned Program Management Support Services – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025). (Continued)

Task No. ¹	Task Name	Primary WWSP Projects/Initiatives ²	Planned Services	Key Resources ³
2.3	Public Outreach and Public Affairs Support	<ul style="list-style-type: none"> • Overall Program • (Assigned) Construction of MPE_1.3, RWF_1.0, & WTP_1.0 • (As requested) Construction of PLW_2.1, PLM_4.1, PLM_4.2, PLM_4.3, PLM_4.4, & RES_1.0-PLM_5.3 	<ul style="list-style-type: none"> • Execute and identify updates and improvements where needed, Public Outreach and Stakeholder Engagement Plan and Local and Regional Business Utilization Plan • Support Participants' staff as needed in its public outreach and public affairs activities • Facilitate an ongoing stakeholder identification process and development and implementation of outreach strategies and timing • Support development and implementation of property owner engagement strategies and support construction activities related to management of easements with private parties • Prepare semi-annual local and regional business involvement reports and as requested, prepare information to support public communications • Coordinate with other functions within the Program (e.g., Real Estate) • Consult on media relations and issues management • Coordinate with the water supply integration team to develop communications strategies and timing • Support construction management personnel • Support the development of the Monthly Progress Reports 	<p>David Marciniak</p> <p>TBD Technical Experts and Specialists (as needed)</p> <p>TVWD will provide a full-time communications supervisor to support this task</p>

¹ – Task numbers correspond to numbered sections within Exhibit A Statement of Work, Article II, and Article III of the Agreement. Task No. 1.1 in the Statement of Work is Mobilization and is not included herein.

² – Primary WWSP Projects/Initiatives represent the anticipated focus for the period covered by this AWP. Project codes (e.g., PLM_4.1) correspond to naming conventions used in the Master Program Schedule and Budget Baseline.

³ – Lead resources are in BOLD, other Key Resources associated with a given task are in support roles and are also leading or supporting other tasks. Refer to Table 2 for planned level of effort by resource.

Table 2.1. Planned Program Management Support Staffing Hours Summary – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Total
Andre Tolme	Program Manager		2.65	1984
Anehta Michalios	Construction Administrative Assistant		2.65	1984
Brendan Robless	Project Manager		2.65	1984
Chad Carlson	Safety		2.65	1984
David Marciniak	Public Affairs/Outreach		2.65	1984
Denise Gillam	Scheduler		2.65	1984
Doug Shermack	Controls Manager		2.65	1984
Elena Thomsen	Staff Professional/CM Specialist		2.65	1493
Ellen Peterman	Controls Specialist		2.65	1984
Eric Fullan	Safety		2.65	502
Eric Ward	Project Manager		2.65	1417
Erika Murphy	Project Manager		2.65	1984
Faride Abzade	Construction Management Specialist		2.65	1984
Jill Chomycia	Deputy Program Manager		2.65	1984
John Uhrin	Sr. Cost Estimator		2.65	1750
Justin Stenman	Construction Management Specialist		2.65	1984
Kristina McLean	Construction Management Specialist		2.65	1984
Kristina Tubbert	Project Controls Specialist		2.65	1984
Matthew Gribbins	Project Manager		2.65	1984
Meredith Hewett	Permitting Specialist		2.65	1984
Robert McCaig	Construction Management Specialist		2.65	1984
Scott Gibson	Design Manager		2.65	1984
Tina Ngo	Construction Management Specialist		2.65	1657
Virginia Anderson	Administrative Assistant		2.65	1984
Alex Schirlbauer	Field Inspector		2.51	2267
Anthony Medrano	Field Inspector		2.51	926
Bennie Bitz	Field Inspector		2.51	2267
Chance Christ	Field Inspector		2.51	1373
Cory Rasico	Field Inspector		2.51	686
Gabriel Jalbert	Construction Manager		2.51	1984
Gary Watson	Field Inspector		2.51	2714
Grant Schoepper	Construction Manager		2.51	1984
Isaac McGuire	Field Inspector		2.51	2267
Jeffery Rasch	Field Inspector		2.51	2714
John Naisbitt	Field Inspector		2.51	1373
Jose Amurao	Field Inspector		2.51	2714
Karl Lindberg	Field Inspector		2.51	2714
Kyle Butler	Construction Manager		2.51	1984
Larry Hodgson	Field Inspector		2.51	1373
Marc Krekos	Field Inspector		2.51	2714
Matt Pease	Construction Manager		2.51	1577
Michael Ramirez	Construction Manager		2.51	1984
Milton Stamp	Safety		2.51	1984
Modena Moore	Field Inspector		2.51	1820
Reed Featherstone	Construction Management Specialist		2.51	2714
Rick Hyatt	Field Inspector		2.51	2714
Robert Schaffer	Field Inspector		2.51	2267
Rod Warner	Construction Manager		2.51	1984
Ron Shaddy	Field Inspector		2.51	468
Ross Edwards	Field Inspector		2.51	2714
Samson Darrah	Field Inspector		2.51	2714
Steve Clapper	Construction Manager		2.51	1984
TBD Field Inspector 07	Field Inspector		2.51	3390
Todd Tubbert	Construction Manager		2.51	1984
Tyler Butler	Construction Manager		2.51	1984
Bill Hawkins	Program Delivery (SME)		2.82	209
Bill Van Derveer	Program Delivery (SME)		2.82	104
Elnaz Adeh Hassanpour	Special Projects Manager		2.82	540
Eric Biederman	Administrative Support		2.82	209
Eric Hjelle	Schedule Support		2.82	186
Jennifer Minton	Project Manager		2.82	1573
Jude Grounds	RWF/WTP Technical Advisor		2.82	104
Ligia Bejarano	Administrative Assistant		2.82	209
Mike Warriner	Constructability/Schedules		2.82	313
Ross Purves	Scheduler		2.82	1488
Russell Snow	Design Manager Pipelines and Reservoirs		2.82	156
Tammy Cleys	Project Manager		2.82	643
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)		2.82	1421
TBD Technical Staff (Various)	Technical Resources		2.82	1126
Tim Tekippe	Testing and Commissioning Lead		2.82	1044
Caitlin McCormick	Technical Editor		2.82	209
Ryan Swing	IT Project Manager		2.82	1566
TBD ERP and RRA Specialists	Commissioning & Startup		2.82	1267
Grand Total				121,210

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 20-30% overtime budget for Field Inspectors

Table 2.2. Planned Program Management Support Staffing for System wide Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Program Management	Controls	W/FA	Permitting	Procurement	Public Outreach	Design Management	SW Construction Management	Facilities Commissioning & Startup
				PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	
Andre Tolme	Program Manager		2.65	992							992	
Anehta Michalios	Construction Administrative Assistant		2.65									
Brendan Robless	Project Manager		2.65									
Chad Carlson	Safety		2.65								1984	
David Marciniak	Public Affairs/Outreach		2.65						1984			
Denise Gillam	Scheduler		2.65		1984							
Doug Shermack	Controls Manager		2.65		1670			313				
Elena Thomsen	Staff Professional/CM Specialist		2.65									
Ellen Peterman	Controls Specialist		2.65		992	992						
Eric Fullan	Safety		2.65								502	
Eric Ward	Project Manager		2.65									
Erika Murphy	Project Manager		2.65									1734
Faride Abzade	Construction Management Specialist		2.65									494
Jill Chomycia	Deputy Program Manager		2.65	992			992					
John Uhrin	Sr. Cost Estimator		2.65								1750	
Justin Stenman	Construction Management Specialist		2.65								817	
Kristina McLean	Construction Management Specialist		2.65									
Kristina Tubbert	Project Controls Specialist		2.65		1984							
Matthew Gribbins	Project Manager		2.65									
Meredith Hewett	Permitting Specialist		2.65				1984					
Robert McCaig	Construction Management Specialist		2.65									
Scott Gibson	Design Manager		2.65							1984		
Tina Ngo	Construction Management Specialist		2.65									
Virginia Anderson	Administrative Assistant		2.65	1232								
Alex Schirbauer	Field Inspector		2.51									
Anthony Medrano	Field Inspector		2.51									
Bennie Bitz	Field Inspector		2.51									
Chance Christ	Field Inspector		2.51									
Cory Rasico	Field Inspector		2.51									
Gabriel Jalbert	Construction Manager		2.51									494
Gary Watson	Field Inspector		2.51									
Grant Schoepper	Construction Manager		2.51									
Isaac McGuire	Field Inspector		2.51									
Jeffery Rasch	Field Inspector		2.51									
John Naisbitt	Field Inspector		2.51									
Jose Amurao	Field Inspector		2.51									
Karl Lindberg	Field Inspector		2.51									
Kyle Butler	Construction Manager		2.51									654
Larry Hodgson	Field Inspector		2.51									
Marc Krekos	Field Inspector		2.51									
Matt Pease	Construction Manager		2.51									676
Michael Ramirez	Construction Manager		2.51									
Milton Stamp	Safety		2.51								1984	
Modena Moore	Field Inspector		2.51									
Reed Featherstone	Construction Management Specialist		2.51									
Rick Hyatt	Field Inspector		2.51									
Robert Schaffer	Field Inspector		2.51									
Rod Warner	Construction Manager		2.51									
Ron Shaddy	Field Inspector		2.51									
Ross Edwards	Field Inspector		2.51									
Samson Darrah	Field Inspector		2.51									
Steve Clapper	Construction Manager		2.51									
TBD Field Inspector 07	Field Inspector		2.51								676	
Todd Tubbert	Construction Manager		2.51									494
Tyler Butler	Construction Manager		2.51									
Bill Hawkins	Program Delivery (SME)		2.82								209	
Bill Van Derveer	Program Delivery (SME)		2.82	104								
Elnaz Adeh Hassanpour	Special Projects Manager		2.82	540								
Eric Biederman	Administrative Support		2.82	209								
Eric Hjelle	Schedule Support		2.82		186							
Jennifer Minton	Project Manager		2.82									
Jude Grounds	RWF/WTP Technical Advisor		2.82							104		
Ligia Bejarano	Administrative Assistant		2.82	209								
Mike Warriner	Constructability/Schedules		2.82								313	
Ross Purves	Scheduler		2.82		1488							
Russell Snow	Design Manager Pipelines and Reservoirs		2.82							156		
Tammy Cleys	Project Manager		2.82									
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)		2.82							251	668	502
TBD Technical Staff (Various)	Technical Resources		2.82		496					52	578	
Tim Tekippe	Testing and Commissioning Lead		2.82									1044
Caitlin McCormick	Technical Editor		2.82	209								
Ryan Swing	IT Project Manager		2.82							1566		
TBD ERP and RRA Specialists	Commissioning & Startup		2.82									1267
Grand Total				4,486	8,799	992	2,975	313	1,984	4,113	10,471	7,359

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 15-20% overtime budget for Field Inspectors

Table 2.3. Planned Program Management Support Staffing for Project Management Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ³	Current Factor	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management
				PLM 1.0	PLM 4.0	PLM 5.0	PLW 2.0	MPE 1.0	RES 1.0	RWF 1.0	WTP 1.0
Andre Tolme	Program Manager		2.65								
Anehta Michalios	Construction Administrative Assistant		2.65								
Brendan Robless	Project Manager		2.65		1239			745			
Chad Carlson	Safety		2.65								
David Marciniak	Public Affairs/Outreach		2.65								
Denise Gillam	Scheduler		2.65								
Doug Shermack	Controls Manager		2.65								
Elena Thomsen	Staff Professional/CM Specialist		2.65		992			502			
Ellen Peterman	Controls Specialist		2.65								
Eric Fullan	Safety		2.65								
Eric Ward	Project Manager		2.65	1417							
Erika Murphy	Project Manager		2.65				249				
Faride Abzade	Construction Management Specialist		2.65								
Jill Chomycia	Deputy Program Manager		2.65								
John Uhrin	Sr. Cost Estimator		2.65								
Justin Stenman	Construction Management Specialist		2.65								
Kristina McLean	Construction Management Specialist		2.65								
Kristina Tubbert	Project Controls Specialist		2.65								
Matthew Gribbins	Project Manager		2.65								1984
Meredith Hewett	Permitting Specialist		2.65								
Robert McCaig	Construction Management Specialist		2.65								
Scott Gibson	Design Manager		2.65								
Tina Ngo	Construction Management Specialist		2.65								
Virginia Anderson	Administrative Assistant		2.65								
Alex Schirlbauer	Field Inspector		2.51								
Anthony Medrano	Field Inspector		2.51								
Bennie Bitz	Field Inspector		2.51								
Chance Christ	Field Inspector		2.51								
Cory Rasico	Field Inspector		2.51								
Gabriel Jalbert	Construction Manager		2.51								
Gary Watson	Field Inspector		2.51								
Grant Schoepper	Construction Manager		2.51								
Isaac McGuire	Field Inspector		2.51								
Jeffery Rasch	Field Inspector		2.51								
John Naisbitt	Field Inspector		2.51								
Jose Amurao	Field Inspector		2.51								
Karl Lindberg	Field Inspector		2.51								
Kyle Butler	Construction Manager		2.51								
Larry Hodgson	Field Inspector		2.51								
Marc Krekos	Field Inspector		2.51								
Matt Pease	Construction Manager		2.51								
Michael Ramirez	Construction Manager		2.51								
Milton Stamp	Safety		2.51								
Modena Moore	Field Inspector		2.51								
Reed Featherstone	Construction Management Specialist		2.51								
Rick Hyatt	Field Inspector		2.51								
Robert Schaffer	Field Inspector		2.51								
Rod Warner	Construction Manager		2.51								
Ron Shaddy	Field Inspector		2.51								
Ross Edwards	Field Inspector		2.51								
Samson Darrah	Field Inspector		2.51								
Steve Clapper	Construction Manager		2.51								
TBD Field Inspector 07	Field Inspector		2.51								
Todd Tubbert	Construction Manager		2.51								
Tyler Butler	Construction Manager		2.51								
Bill Hawkins	Program Delivery (SME)		2.82								
Bill Van Derveer	Program Delivery (SME)		2.82								
Elnaz Adeh Hassanpour	Special Projects Manager		2.82								
Eric Biederman	Administrative Support		2.82								
Eric Hjelle	Schedule Support		2.82								
Jennifer Minton	Project Manager		2.82					745		828	
Jude Grounds	RWF/WTP Technical Advisor		2.82								
Ligia Bejarano	Administrative Assistant		2.82								
Mike Warriner	Constructability/Schedules		2.82								
Ross Purves	Scheduler		2.82								
Russell Snow	Design Manager Pipelines and Reservoirs		2.82								
Tammy Cleys	Project Manager		2.82			643					
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)		2.82								
TBD Technical Staff (Various)	Technical Resources		2.82								
Tim Tekippe	Testing and Commissioning Lead		2.82								
Caitlin McCormick	Technical Editor		2.82								
Ryan Swing	IT Project Manager		2.82								
TBD ERP and RRA Specialists	Commissioning & Startup		2.82								
Grand Total				1,417	2,231	643	249	1,246	745	828	1,984

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 20-30% overtime budget for Field Inspectors

Table 2.4. Planned Program Management Support Staffing for Construction Management Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	Construction Management	
				PLM 4.3	PLM 4.1	PLM 4.2	PLM 4.3	PLM 4.4	PLM 5.3	PLW 2.1	MPE 1.2	MPE 1.3	RES 1.1	RWF 1.1	WTP 1.1			
Andre Tolme	Program Manager	2.65																
Anehta Michalios	Construction Administrative Assistant	2.65																1984
Brendan Robless	Project Manager	2.65																
Chad Carlson	Safety	2.65																
David Marciniak	Public Affairs/Outreach	2.65																
Denise Gillam	Scheduler	2.65																
Doug Shermack	Controls Manager	2.65																
Elena Thomsen	Staff Professional/CM Specialist	2.65																
Ellen Peterman	Controls Specialist	2.65																
Eric Fullan	Safety	2.65																
Eric Ward	Project Manager	2.65																
Erika Murphy	Project Manager	2.65																
Faride Abzade	Construction Management Specialist	2.65							745							745		
Jill Chomycia	Deputy Program Manager	2.65																
John Uhrin	Sr. Cost Estimator	2.65																
Justin Stenman	Construction Management Specialist	2.65								338							828	
Kristina McLean	Construction Management Specialist	2.65																1984
Kristina Tubbert	Project Controls Specialist	2.65																
Matthew Gribbins	Project Manager	2.65																
Meredith Hewett	Permitting Specialist	2.65																
Robert McCalg	Construction Management Specialist	2.65			125	1733		125										
Scott Gibson	Design Manager	2.65																
Tina Ngo	Construction Management Specialist	2.65		1406			251											
Virginia Anderson	Administrative Assistant	2.65									89	663						
Alex Schirlbauer	Field Inspector	2.51		2267														
Anthony Medrano	Field Inspector	2.51								926								
Bennie Bitz	Field Inspector	2.51				1581	686											
Chance Christ	Field Inspector	2.51															1373	
Cory Rasico	Field Inspector	2.51							686									
Gabriel Jalbert	Construction Manager	2.51									129	1360						
Gary Watson	Field Inspector	2.51																2714
Grant Schoepper	Construction Manager	2.51			125	1733		125										
Isaac McGuire	Field Inspector	2.51															2267	
Jeffery Rasch	Field Inspector	2.51				2714												
John Naisbitt	Field Inspector	2.51															1373	
Jose Amurao	Field Inspector	2.51																2714
Karl Lindberg	Field Inspector	2.51																2714
Kyle Butler	Construction Manager	2.51								338								992
Larry Hodgson	Field Inspector	2.51															1373	
Marc Krekos	Field Inspector	2.51																
Matt Pease	Construction Manager	2.51		1326			251											
Michael Ramirez	Construction Manager	2.51																1984
Milton Stamp	Safety	2.51																
Modena Moore	Field Inspector	2.51															1820	
Reed Featherstone	Construction Management Specialist	2.51																2714
Rick Hyatt	Field Inspector	2.51																2714
Robert Schaffer	Field Inspector	2.51		2267														
Rod Warner	Construction Manager	2.51															1657	327
Ron Shaddy	Field Inspector	2.51									468							
Ross Edwards	Field Inspector	2.51																2714
Samson Darrah	Field Inspector	2.51																2714
Steve Clapper	Construction Manager	2.51																1984
TBD Field Inspector 07	Field Inspector	2.51																2714
Todd Tubbert	Construction Manager	2.51							745								745	
Tyler Butler	Construction Manager	2.51																1984
Bill Hawkins	Program Delivery (SME)	2.82																
Bill Van Derveer	Program Delivery (SME)	2.82																
Elnaz Adah Hassanpour	Special Projects Manager	2.82																
Eric Biederman	Administrative Support	2.82																
Eric Hjelte	Schedule Support	2.82																
Jennifer Minton	Project Manager	2.82																
Jude Grounds	RWF/WTP Technical Advisor	2.82																
Ligia Bejarano	Administrative Assistant	2.82																
Mike Warriner	Constructability/Schedules	2.82																
Ross Purves	Scheduler	2.82																
Russell Snow	Design Manager Pipelines and Reservoirs	2.82																
Tammy Cleys	Project Manager	2.82																
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)	2.82																
TBD Technical Staff (Various)	Technical Resources	2.82																
Tim Kippe	Testing and Commissioning Lead	2.82																
Caitlin McCormick	Technical Editor	2.82																
Ryan Swing	IT Project Manager	2.82																
TBD ERP and RRA Specialists	Commissioning & Startup	2.82																
Grand Total				7,267	251	7,761	1,188	251	2,176	1,602	686	5,435	4,235	6,572	32,952			

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 20-30% overtime budget for Field Inspectors

Table 3.1. Estimated Fees for Planned Program Management Support Summary – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Total
Andre Tolme	Program Manager	2.65	\$	611,756
Anehta Michalios	Construction Administrative Assistant	2.65	\$	164,004
Brendan Robless	Project Manager	2.65	\$	450,643
Chad Carlson	Safety	2.65	\$	448,162
David Marciniak	Public Affairs/Outreach	2.65	\$	337,838
Denise Gillam	Scheduler	2.65	\$	419,630
Doug Shermack	Controls Manager	2.65	\$	274,864
Elena Thomsen	Staff Professional/CM Specialist	2.65	\$	206,385
Ellen Peterman	Controls Specialist	2.65	\$	329,585
Eric Fullan	Safety	2.65	\$	85,019
Eric Ward	Project Manager	2.65	\$	289,559
Erika Murphy	Project Manager	2.65	\$	398,286
Faride Abzade	Construction Management Specialist	2.65	\$	265,555
Jill Chomycia	Deputy Program Manager	2.65	\$	505,995
John Uhrin	Sr. Cost Estimator	2.65	\$	292,188
Justin Stenman	Construction Management Specialist	2.65	\$	184,434
Kristina McLean	Construction Management Specialist	2.65	\$	290,319
Kristina Tubbert	Project Controls Specialist	2.65	\$	155,594
Matthew Gribbins	Project Manager	2.65	\$	579,969
Meredith Hewett	Permitting Specialist	2.65	\$	219,145
Robert McCaig	Construction Management Specialist	2.65	\$	204,736
Scott Gibson	Design Manager	2.65	\$	536,492
Tina Ngo	Construction Management Specialist	2.65	\$	149,234
Virginia Anderson	Administrative Assistant	2.65	\$	258,273
Alex Schirlbauer	Field Inspector	2.51	\$	201,165
Anthony Medrano	Field Inspector	2.51	\$	149,037
Bennie Bitz	Field Inspector	2.51	\$	338,083
Chance Christ	Field Inspector	2.51	\$	218,011
Cory Rasico	Field Inspector	2.51	\$	111,418
Gabriel Jalbert	Construction Manager	2.51	\$	404,587
Gary Watson	Field Inspector	2.51	\$	347,130
Grant Schoepper	Construction Manager	2.51	\$	352,950
Isaac McGuire	Field Inspector	2.51	\$	370,178
Jeffery Rasch	Field Inspector	2.51	\$	438,426
John Naisbitt	Field Inspector	2.51	\$	213,980
Jose Amurao	Field Inspector	2.51	\$	436,518
Karl Lindberg	Field Inspector	2.51	\$	407,290
Kyle Butler	Construction Manager	2.51	\$	331,743
Larry Hodgson	Field Inspector	2.51	\$	226,453
Marc Krekos	Field Inspector	2.51	\$	450,349
Matt Pease	Construction Manager	2.51	\$	302,570
Michael Ramirez	Construction Manager	2.51	\$	502,713
Milton Stamp	Safety	2.51	\$	345,850
Modena Moore	Field Inspector	2.51	\$	295,380
Reed Featherstone	Construction Management Specialist	2.51	\$	251,473
Rick Hyatt	Field Inspector	2.51	\$	429,978
Robert Schaffer	Field Inspector	2.51	\$	340,188
Rod Warner	Construction Manager	2.51	\$	399,850
Ron Shaddy	Field Inspector	2.51	\$	68,742
Ross Edwards	Field Inspector	2.51	\$	382,626
Samson Darrah	Field Inspector	2.51	\$	383,239
Steve Clapper	Construction Manager	2.51	\$	341,996
TBD Field Inspector 07	Field Inspector	2.51	\$	562,930
Todd Tubbert	Construction Manager	2.51	\$	388,847
Tyler Butler	Construction Manager	2.51	\$	332,501
Bill Hawkins	Program Delivery (SME)	2.82	\$	66,059
Bill Van Derveer	Program Delivery (SME)	2.82	\$	40,525
Elnaz Adeh Hassanpour	Special Projects Manager	2.82	\$	103,061
Eric Biederman	Administrative Support	2.82	\$	21,374
Eric Hjelle	Schedule Support	2.82	\$	44,878
Jennifer Minton	Project Manager	2.82	\$	337,315
Jude Grounds	RWF/WTP Technical Advisor	2.82	\$	29,043
Ligia Bejarano	Administrative Assistant	2.82	\$	20,085
Mike Warriner	Constructability/Schedules	2.82	\$	92,509
Ross Purves	Scheduler	2.82	\$	218,660
Russell Snow	Design Manager Pipelines and Reservoirs	2.82	\$	58,333
Tammy Cleys	Project Manager	2.82	\$	156,518
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)	2.82	\$	388,561
TBD Technical Staff (Various)	Technical Resources	2.82	\$	210,029
Tim Tekippe	Testing and Commissioning Lead	2.82	\$	251,689
Caitlin McCormick	Technical Editor	2.82	\$	25,990
Ryan Swing	IT Project Manager	2.82	\$	337,303
TBD ERP and RRA Specialists	Commissioning & Startup	2.82	\$	221,557
	Other Direct Cost ³	\$ -	1.00	\$ 423,911
	Estimated 2025 Annual Labor Rate Adjustment ⁴	\$ -	1.00	\$ 588,196
Grand Total				\$ 21,619,462

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.
² Approximately 20-30% overtime budget for Field Inspectors.
³ Other Direct Cost are estimated at 2% of direct labor cost.
⁴ Estimated Aggregate Labor Rate Adjustment shall be used for annual cost of living and merit increase.

Table 3.2. Estimated Fees for Planned Program Management Support for System wide Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Program Management	Controls	W/FIA	Permitting	Procurement	Public Outreach	Design Management	SW Construction Management	Facilities Commissioning & Startup		
				PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0	PROG 1.0		
Andre Tolme	Program Manager		2.65	\$ 305,878	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 305,878	\$ -		
Anehta Michalios	Construction Administrative Assistant		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Brendan Robless	Project Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Chad Carlson	Safety		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 448,162	\$ -		
David Marciniak	Public Affairs/Outreach		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,838	\$ -	\$ -	\$ -		
Denise Gillam	Scheduler		2.65	\$ -	\$ 419,630	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Doug Shermack	Controls Manager		2.65	\$ -	\$ 231,465	\$ -	\$ -	\$ 43,400	\$ -	\$ -	\$ -	\$ -		
Elena Thomsen	Staff Professional/CM Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Ellen Peterman	Controls Specialist		2.65	\$ -	\$ 164,793	\$ 164,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Eric Fullan	Safety		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85,019	\$ -		
Eric Ward	Project Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Erika Murphy	Project Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 348,249		
Faride Abzade	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,134		
Jill Chomycia	Deputy Program Manager		2.65	\$ 252,997	\$ -	\$ -	\$ 252,997	\$ -	\$ -	\$ -	\$ -	\$ -		
John Uhrin	Sr. Cost Estimator		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 292,188	\$ -		
Justin Stenman	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,964	\$ -		
Kristina McLean	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Kristina Tubbert	Project Controls Specialist		2.65	\$ -	\$ 155,594	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Matthew Gribbins	Project Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Meredith Hewett	Permitting Specialist		2.65	\$ -	\$ -	\$ -	\$ 219,145	\$ -	\$ -	\$ -	\$ -	\$ -		
Robert McCaig	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Scott Gibson	Design Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 536,492	\$ -	\$ -		
Tina Ngo	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Virginia Anderson	Administrative Assistant		2.65	\$ 160,366	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Alex Schirlbauer	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Anthony Medrano	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Bennie Bitz	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Chance Christ	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Cory Rasico	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Gabriel Jalbert	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,759		
Gary Watson	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Grant Schoepper	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Isaac McGuire	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Jeffery Rasch	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
John Naisbitt	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Jose Amurao	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Karl Lindberg	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Kyle Butler	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 109,310		
Larry Hodgson	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Marc Krekos	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 112,156		
Matt Pease	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Michael Ramirez	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Milton Stamp	Safety		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,850	\$ -		
Modena Moore	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Reed Featherstone	Construction Management Specialist		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Rick Hyatt	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Robert Schaffer	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Rod Warner	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Ron Shaddy	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Ross Edwards	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Samson Darrah	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Steve Clapper	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
TBD Field Inspector 07	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 112,241	\$ -		
Todd Tubbert	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 96,839		
Tyler Butler	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Bill Hawkins	Program Delivery (SME)		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,059	\$ -		
Bill Van Derveer	Program Delivery (SME)		2.82	\$ 40,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Elnaz Akeh Hassanpour	Special Projects Manager		2.82	\$ 103,061	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Eric Biederman	Administrative Support		2.82	\$ 21,374	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Eric Hjelle	Schedule Support		2.82	\$ -	\$ 44,878	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Jennifer Minton	Project Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Jude Grounds	RWF/WTP Technical Advisor		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,043	\$ -	\$ -	\$ -		
Ligia Bejarano	Administrative Assistant		2.82	\$ 20,085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Mike Warriner	Constructability/Schedules		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 92,509	\$ -		
Ross Purves	Scheduler		2.82	\$ -	\$ 218,660	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Russell Snow	Design Manager Pipelines and Reservoirs		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,333	\$ -	\$ -	\$ -		
Tammy Cleys	Project Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68,533	\$ 182,831	\$ 137,197	\$ -		
TBD Technical Staff (Various)	Technical Resources		2.82	\$ -	\$ 92,507	\$ -	\$ -	\$ -	\$ 9,738	\$ 107,785	\$ -	\$ -		
Tim Tekippe	Testing and Commissioning Lead		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 251,689		
Caitlin McCormick	Technical Editor		2.82	\$ 25,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Ryan Swing	IT Project Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,303	\$ -	\$ -	\$ -		
TBD ERP and RRA Specialists	Commissioning & Startup		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 221,557		
Other Direct Cost ³				\$ -	1.00	\$ 423,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Estimated 2025 Annual Labor Rate Adjustment ⁴				\$ -	1.00	\$ 30,954	\$ 41,640	\$ 5,294	\$ 15,168	\$ 1,394	\$ 10,854	\$ 34,028	\$ 66,684	\$ 50,643
Grand Total						\$ 1,385,141	\$ 1,369,165	\$ 170,087	\$ 487,311	\$ 44,794	\$ 348,691	\$ 1,073,470	\$ 2,181,170	\$ 1,494,535

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 20-30% overtime budget for Field Inspectors.

³ Other Direct Cost are estimated at 2% of direct labor cost.

⁴ Estimated Aggregate Labor Rate Adjustment shall be used for annual cost of living and merit increase.

Table 3.3. Estimated Fees for Planned Program Management Support for Project Management Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ³	Current Factor	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management	Project Management
				PLM 1.0	PLM 4.0	PLM 5.0	PLW 2.0	MPE 1.0	RES 1.0	RWF 1.0	WTP 1.0
Andre Tolme	Program Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Anehta Michalios	Construction Administrative Assistant		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Brendan Robless	Project Manager		2.65	\$ -	\$ 281,436	\$ -	\$ -	\$ 169,207	\$ -	\$ -	\$ -
Chad Carlson	Safety		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
David Marciniak	Public Affairs/Outreach		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Denise Gillam	Scheduler		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Doug Shermack	Controls Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Elena Thomsen	Staff Professional/CM Specialist		2.65	\$ -	\$ 137,065	\$ -	\$ -	\$ 69,320	\$ -	\$ -	\$ -
Ellen Peterman	Controls Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eric Fullan	Safety		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eric Ward	Project Manager		2.65	\$ 289,559	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Erika Murphy	Project Manager		2.65	\$ -	\$ -	\$ -	\$ 50,037	\$ -	\$ -	\$ -	\$ -
Faride Abzade	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jill Chomycia	Deputy Program Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
John Uhrin	Sr. Cost Estimator		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Justin Stenman	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kristina McLean	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kristina Tubbert	Project Controls Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Matthew Gribbins	Project Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 579,969
Meredith Hewett	Permitting Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Robert McCaig	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Scott Gibson	Design Manager		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tina Ngo	Construction Management Specialist		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Anderson	Administrative Assistant		2.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Alex Schirbauer	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Anthony Medrano	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bennie Bitz	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Chance Christ	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cory Rasico	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gabriel Jalbert	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gary Watson	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grant Schoepper	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Isaac McGuire	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jeffery Rasch	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
John Naisbitt	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jose Amurao	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Karl Lindberg	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kyle Butler	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Larry Hodgson	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Marc Krekos	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Matt Pease	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Michael Ramirez	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Milton Stamp	Safety		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Modena Moore	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reed Featherstone	Construction Management Specialist		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rick Hyatt	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Robert Schaffer	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rod Warner	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ron Shaddy	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ross Edwards	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Samson Darrah	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Steve Clapper	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TBD Field Inspector 07	Field Inspector		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Todd Tubbert	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tyler Butler	Construction Manager		2.51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bill Hawkins	Program Delivery (SME)		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bill Van Derveer	Program Delivery (SME)		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Elnaz Adeh Hassanpour	Special Projects Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eric Biederman	Administrative Support		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eric Hjelle	Schedule Support		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jennifer Minton	Project Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,695	\$ 177,620	\$ -
Jude Grounds	RWF/WTP Technical Advisor		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ligia Bejarano	Administrative Assistant		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Mike Warriner	Constructability/Schedules		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ross Purves	Scheduler		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Russell Snow	Design Manager Pipelines and Reservoirs		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tammy Cleys	Project Manager		2.82	\$ -	\$ -	\$ 156,518	\$ -	\$ -	\$ -	\$ -	\$ -
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TBD Technical Staff (Various)	Technical Resources		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tim Tekippe	Testing and Commissioning Lead		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Caitlin McCormick	Technical Editor		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ryan Swing	IT Project Manager		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TBD ERP and RRA Specialists	Commissioning & Startup		2.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Other Direct Cost ³	\$ -	1.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Estimated 2025 Annual Labor Rate Adjustment ⁴	\$ -	1.00	\$ 5,500	\$ 15,290	\$ 1,924	\$ -	\$ 3,591	\$ 3,389	\$ 4,555	\$ 18,632
Grand Total				\$ 295,059	\$ 433,790	\$ 158,442	\$ 50,037	\$ 242,118	\$ 163,084	\$ 182,174	\$ 598,601

¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.
² Approximately 20-30% overtime budget for Field Inspectors.
³ Other Direct Cost are estimated at 2% of direct labor cost.
⁴ Estimated Aggregate Labor Rate Adjustment shall be used for annual cost of living and merit increase.

Table 3.4. Estimated Fees for Planned Program Management Support for Construction Management Tasks – Fiscal Year 2024-2025 (July 1, 2024, through June 30, 2025).

Name	Role ²	Current Billing Rate ¹	Current Factor	Construction Management			Construction Management			Construction Management			Construction Management			Construction Management			
				PLM 1.3	PLM 4.1	PLM 4.2	PLM 4.3	PLM 4.4	PLM 5.3	PLW 2.1	MPE 1.2	MPE 1.3	RES 1.1	RWF 1.1	WTP 1.1				
Andre Tolme	Program Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Anehta Michalios	Construction Administrative Assistant	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Brendan Robless	Project Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Chad Carlson	Safety	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
David Marcinlak	Public Affairs/Outreach	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Denise Gillam	Scheduler	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Doug Shermack	Controls Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Elena Thomsen	Staff Professional/CM Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Ellen Peterman	Controls Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Eric Fullan	Safety	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Eric Ward	Project Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Erika Murphy	Project Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Faride Abzade	Construction Management Specialist	2.65	\$	-	\$	-	\$	-	\$	99,710	\$	-	\$	-	\$	-	\$	99,710	\$
Jill Chomyia	Deputy Program Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
John Uhrin	Sr. Cost Estimator	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Justin Stenman	Construction Management Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	31,446	\$	-	\$	-	\$	77,024	\$
Kristina McLean	Construction Management Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Kristina Tubbert	Project Controls Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Matthew Gribbins	Project Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Meredith Hewett	Permitting Specialist	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Robert McCaig	Construction Management Specialist	2.65	\$	-	\$	12,943	\$	178,850	\$	-	\$	12,943	\$	-	\$	-	\$	-	\$
Scott Gibson	Design Manager	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Tina Ngo	Construction Management Specialist	2.65	\$	-	\$	-	\$	-	\$	22,590	\$	-	\$	-	\$	-	\$	-	\$
Virginia Anderson	Administrative Assistant	2.65	\$	-	\$	-	\$	-	\$	-	\$	-	\$	11,600	\$	86,306	\$	-	\$
Alex Schirlbauer	Field Inspector	2.51	\$	201,165	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Anthony Medrano	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	149,037	\$	-	\$	-	\$	-	\$
Bennie Bitz	Field Inspector	2.51	\$	-	\$	235,727	\$	102,355	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Chance Christ	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	218,011	\$	-	\$
Cory Rasico	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	111,418	\$	-	\$	-	\$	-	\$
Gabriel Jalbert	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	26,352	\$	277,476	\$	-	\$
Gary Watson	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Grant Schoepper	Construction Manager	2.51	\$	-	\$	22,313	\$	308,324	\$	-	\$	22,313	\$	-	\$	-	\$	-	\$
Isaac McGuire	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	370,178	\$
Jeffery Rasch	Field Inspector	2.51	\$	-	\$	438,426	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
John Naisbitt	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	213,980	\$	-	\$
Jose Amurao	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Karl Lindberg	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Kyle Butler	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	56,562	\$	-	\$	-	\$	-	\$
Larry Hodgson	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	226,453	\$	-	\$
Marc Krekos	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	338,193	\$	-	\$
Matt Pease	Construction Manager	2.51	\$	254,451	\$	-	\$	-	\$	48,120	\$	-	\$	-	\$	-	\$	-	\$
Michael Ramirez	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Milton Stamp	Safety	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Modena Moore	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	295,380	\$
Reed Featherstone	Construction Management Specialist	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Rick Hyatt	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Robert Schaffer	Field Inspector	2.51	\$	340,188	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Rod Warner	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	333,975	\$	-	\$
Ron Shaddy	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	68,742	\$	-	\$	-	\$
Ross Edwards	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Samson Darrah	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Steve Clapper	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
TBD Field Inspector 07	Field Inspector	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Todd Tubbert	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	146,004	\$	-	\$	-	\$	146,004	\$	-	\$
Tyler Butler	Construction Manager	2.51	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Bill Hawkins	Program Delivery (SME)	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Bill Van Derveer	Program Delivery (SME)	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Elnaz Adeh Hassanpour	Special Projects Manager	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Eric Biederman	Administrative Support	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Eric Hjelle	Schedule Support	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Jennifer Minton	Project Manager	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Jude Grounds	RWF/WTP Technical Advisor	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Ligia Bejarano	Administrative Assistant	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Mike Warriner	Constructability/Schedules	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Ross Purves	Scheduler	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Russell Snow	Design Manager Pipelines and Reservoirs	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Tammy Cleys	Project Manager	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
TBD Subject Matter Experts (Various)	Subject Matter Experts (SME)	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
TBD Technical Staff (Various)	Technical Resources	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Tim Tekippe	Testing and Commissioning Lead	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Caitlin McCormick	Technical Editor	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
Ryan Swing	IT Project Manager	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
TBD ERP and RRA Specialists	Commissioning & Startup	2.82	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
	Other Direct Cost ³	\$	-	1.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
	Estimated 2025 Annual Labor Rate Adjustment ⁴	\$	-	1.00	\$	25,859	\$	35,256	\$	40,671	\$	5,215	\$	237,044	\$	15,685	\$	5,215	\$
Grand Total						948,307	\$	35,256	\$	1,201,998	\$	173,065	\$	35,256	\$	362,347	\$	237,044	\$

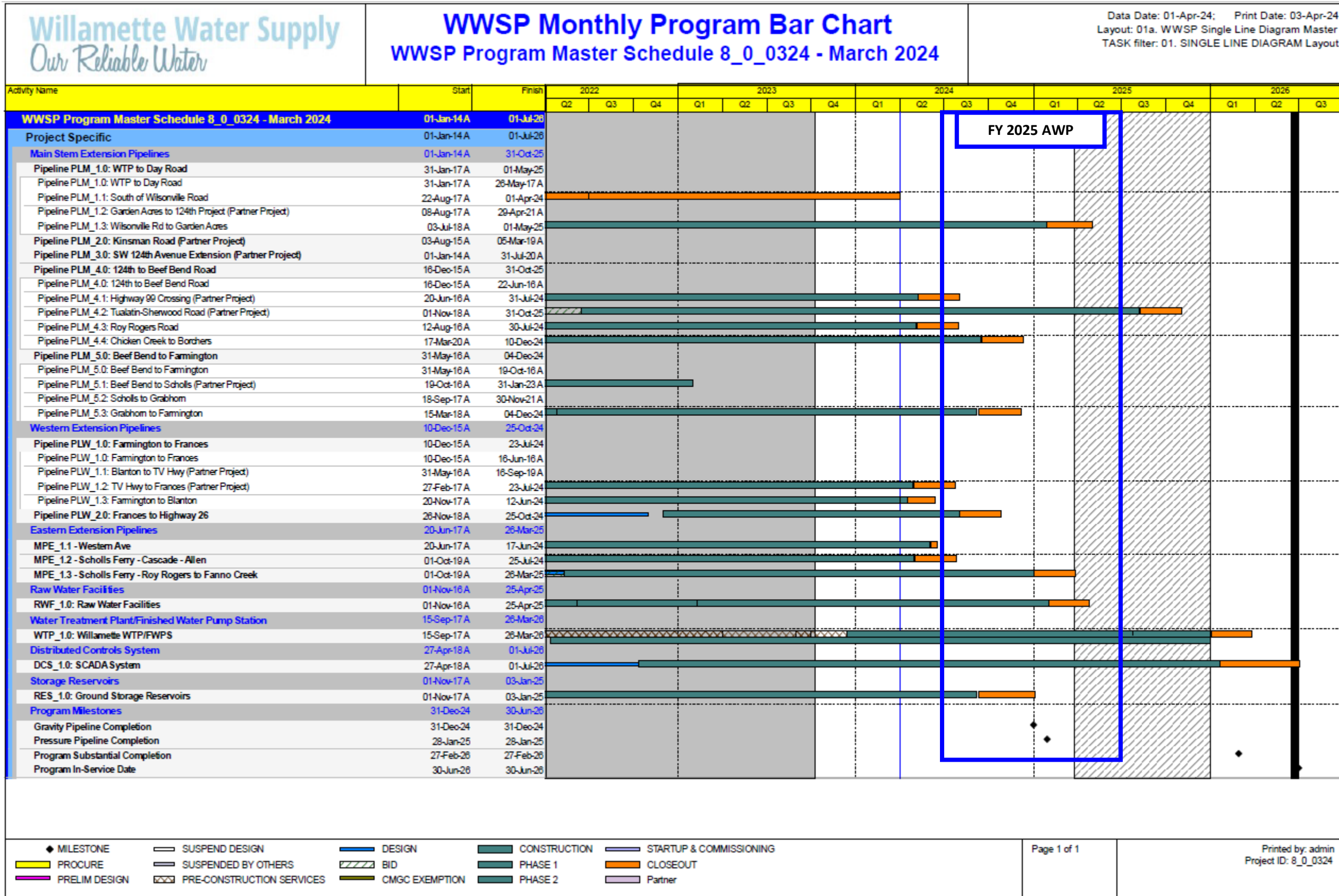
¹ Direct Labor Rates for TBD resources shall be submitted for approval on a case-by-case basis.

² Approximately 20-30% overtime budget for Field Inspectors.

³ Other Direct Cost are estimated at 2% of direct labor cost.

⁴ Estimated Aggregate Labor Rate Adjustment shall be used for annual cost of living and merit increase.

Figure 1. Fiscal Year 2024-2025 WWSP Master Program Schedule and Budget Baseline 8.1 including approved changes through March 31, 2024.



Willamette Water Supply System Commission

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Willamette Water Supply

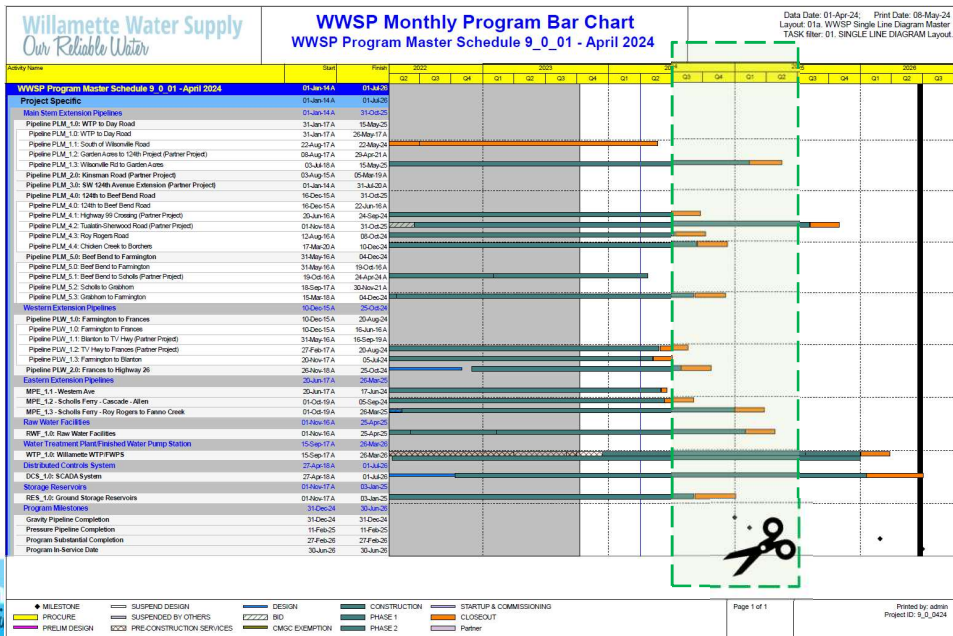
Our Reliable Water

6A. Approve WWSP Program and Construction Management Services FY25 Annual Work Plan – David Kraska

WWSS Board Meeting
June 6, 2024

1

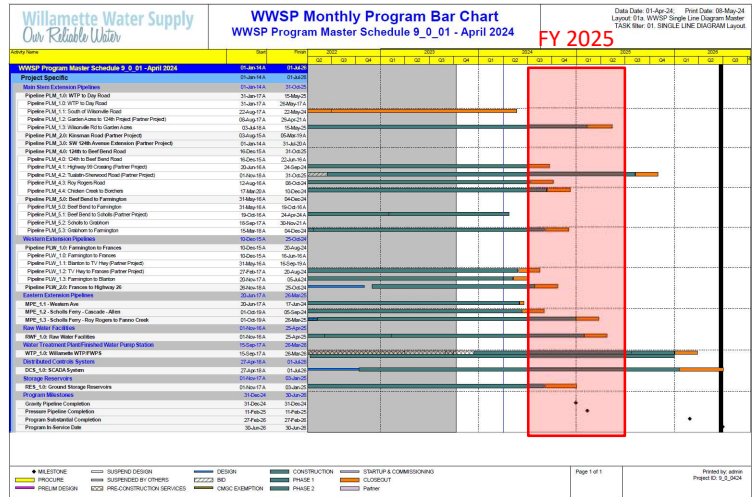
The FY2025 AWP and Budget based on a “slice” of Baseline 9.1



2

Program work planned for FY2025

- Manage 13 construction projects
- Continued program management
 - Safety program
 - Communications and outreach
 - Project closeout
- Continued acquisitions
 - Real estate
 - Permits and land use approvals
- Continued planning
 - Commissioning and start-up
 - Water supply integration
 - Operations



3

Stantec services originally procured in 2015

- 11.5-year term on the contract
- Cost was a key consideration in the initial selection of a program/construction management firm
 - The contract uses labor rate multipliers that do not change over the life of the WWSP
 - Annual labor rate adjustments are capped by the contract and are reviewed/approved by the Program Director
 - Staff proposed for WWSP work are reviewed and approved by the Program Director (considerations include: role, qualifications, labor rate, mobility costs)
- Annual Work Plan is negotiated each year based on anticipated activities

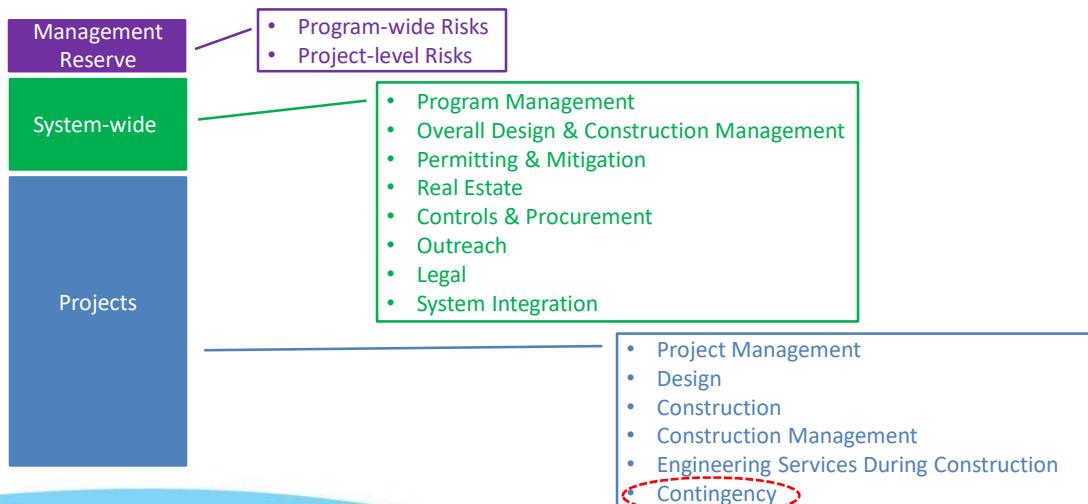
4

FY2025 AWP budget increased for project needs

- \$21,619,462
- \$523k increase from initial estimated budget submitted December 2023
 - Added IT project manager \$337k
 - Added WTP_1.0 inspection staff (overtime work) \$451k
 - Added WTP_1.0 startup/testing resource \$ 66k
 - Added inspection staff for pipelines \$112k
 - Decreased staffing on other projects (\$443k)
 - Total change from initial estimate \$523k
- Within Baseline 9.1 and project contingencies – no draw on Management Reserve
- About 7% decrease in budget compared to last year
 - Decreased level of construction activities as compared with FY24 (as work packages close out)
- About 5.5% of the total planned budget for next FY
 - Proportionally similar to last three years' budgets

5

Additional budget accommodated within current project contingencies



6

Historical budget and invoice review shows good management and cost control

Fiscal Year	Initial Budget Estimate	Approved AWP Amount	Actual Invoiced Amount	Underspent Amount
FY20	\$11,809,844	\$11,696,957	\$10,896,001	\$800,956
FY21	\$13,032,780	\$12,883,082	\$12,853,650	\$29,432
FY22	\$17,845,838	\$17,845,838	\$14,104,148	\$3,741,690
FY23	\$24,739,102	\$24,247,175	\$18,831,827	\$5,415,348
FY24	\$23,713,838	\$23,217,190	\$21,141,158 (est.)	\$2,076,032 (est.)
FY25	\$21,096,241	\$21,619,462 (proposed)	--	--

7

FY2025 estimated cost shares by WWSP Partner

Partners	Cost Shares
Beaverton	\$1,079,613
Hillsboro	\$7,001,346
TVWD	\$13,538,503
Total	\$21,619,462

8

QUESTIONS?

9

6A. Requested Board Action

Consider approving the Annual Work Plan with Stantec Consulting Services, Inc., to provide Program and Construction Management Services for the Willamette Water Supply Program during the Fiscal Year 2025.

10

Willamette Water Supply System Commission

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STAFF REPORT

To: WWSS Board of Commissioners
From: Christina Walter, WWSP Permitting and Outreach Manager
Date: June 6, 2024
Subject: Public Outreach Master Services Agreement (MSA) No. 2019-043 Task Order #6

Requested Board Action:

Consider approving Task Order #6 to MSA 2019-043, with Consor North America Inc., in the amount of \$497,608.35 to provide additional public outreach consulting services for the Willamette Water Supply Program (WWSP, Program) during Fiscal Year 2025 (July 1, 2024 – June 30, 2025).

Key Concepts:

- The primary purpose of these services is to provide public engagement materials and staff for the multiple on-going construction projects and for Program-wide communications.
- In 2014 Barney & Worth, Inc., was selected for Public Outreach Services through a competitive request for qualifications.
- The original MSA expired in 2019. On June 27, 2019, a new MSA was issued through a Direct Appointment by WWSP for continuation of the Public Outreach Services. This new MSA will not expire until June 29, 2026.
- This new task order corresponds to the planned WWSP activities and milestones in Baseline 9.1.
- The proposed FY2025 task order budget request is \$497,608.35, which is consistent with Baseline 9.1.

Background:

In 2014 Barney & Worth, Inc. (now Consor North America, Inc.), was selected for WWSP-related Public Outreach Services through a request for qualifications administered by the Tualatin Valley Water District. Thereafter, and before the Willamette Water Supply System (WWSS) Commission intergovernmental agreement was executed in 2019, TVWD issued annual task orders to Barney & Worth under this MSA for work on the WWSP.

The MSA expired in 2019 and the WWSP staff recognized that it required continuity of Public Outreach Services through the end of WWSS construction (forecast to be mid-2026). On June 27, 2019, an MSA was awarded by Direct Appointment for services through June 29, 2026. Continuing with Barney and Worth for these services was valuable to the WWSS partners (TVWD, and the cities of Hillsboro and Beaverton) because of their institutional knowledge of the WWSP and their effective relationships with the many stakeholders and property owners with whom we interface. On October 3, 2022, Barney & Worth, Inc. merged with Consor North America, Inc. (Consor).

The public outreach support services MSA has a total term of 12 years ending on June 29, 2026. Planned services, planned staffing, estimated fees, and key assumptions for delivery of Program public outreach and communications support services are defined and authorized on a fiscal year basis through an annual task order. The level of effort in Task Order #6 continues to remain high in FY 2025 now that the WWSP is at the peak of construction with 13 projects continuing to still be in active construction. Consor's continuing public outreach activities under FY 2025 Scope of Work includes:

- Update and create messaging for Willamette Water Monthly, website, fact sheets, and responses to media requests.
- Implement construction outreach plans and develop project update messages for projects under construction.
- Update and create materials and graphics that support messaging, including the Program’s safety program, and the annual achievements video.
- Attend all coordination meetings including Communications Team meetings and work sessions as well as the individual project construction meetings.
- Support Program staff on events that promote or educate the public including treatment plant tours, and community events.
- Create and update PowerPoint presentations and talking points.
- Give and support presentations to community organizations, water-related organizations, non-profits, and others.
- Provide website updates: posting stories; updating meeting locations, dates, and times; map updates; and other activities as directed by staff.
- Compile and track interested parties and events in e-Builder.
- Support Program staff with Community Liaison meetings of Public Information Officers from Washington County communities.
- Design Program outreach materials.
- Support project construction close-out activities (fulfillment of easement obligations and post-construction structural assessments).
- Complete other related activities as directed by Program staff.

Budget Impact

The proposed Task Order #6 authorizes fees up to \$497,608.35 during FY2025. This amount is reflected in WWSP Baseline 9.1, which was approved by the Board on April 4, 2024. The table below shows the estimated distribution of the proposed budget based on the cost shares presented in Baseline 9.1:

Estimated Distribution:		
City of Beaverton	4.98%	\$24,780.90
City of Hillsboro	33.19%	\$165,156.21
TVWD	51.62%	\$256,865.43
TVWD – ONLY (MPE)	10.21%	\$50,805.81
TOTAL		\$497,608.35

Staff Contact Information:

David Kraska, P.E., WWSS General Manger; 503-941-4561; david.kraska@tvwd.org

Christina Walter, WWSP Permitting and Outreach Manager; 503-840-3830; christina.walter@tvwd.org

Attachments:

- Exhibit 1: Public Outreach Master Services Agreement (MSA) No. 2019-043 Task Order #6

Conсор
Public Outreach Services
Master Services Agreement No.:2019-043
Task Order: 006

Project Name: Public Outreach Services
Consultant: Conсор
Master Services Agreement No.: 2019-043
Task Order 006

In accordance with the Master Services Agreement No. 209-043, between Willamette Water Supply System Commission (“Owner”), and Conсор. (“Consultant”) effective ("Agreement"), Owners and Contractor agree to as follows:

1. Scope of Services (including a detailed list of tasks and deliverables)

Consultant shall provide services as stated in the attached Exhibit A – Statement of Work.

2. Times for Rendering Services

Work under this Task Order shall commence on or before July 1, 2024 and be ready for final payment on or before June 30, 2025.

3. Fees/Charges

In accordance with Exhibit B – Consultant Rates, the amount of this Task Order shall not exceed: \$497,608.35 (Task Order Price), unless authorized by Owner through a written amendment.

Attachments:

- Exhibit A – Statement of Work
- Exhibit B – Consultant Rates

Approval and acceptance of this Task Order shall incorporate this document as part of the Master Services Agreement. Any terms used herein, which are defined in the Agreement, shall have their respective meanings set forth in the Agreement. The Parties agree that in the event of a conflict between the Agreement and this Task Order, the terms and conditions in this Task Order shall prevail.

OWNERS

CONSULTANT

By: _____

By: _____

Name: David Kraska

Name: Elizabeth Barg Bakke

Title: WWSP Program Director

Title: Principal

Date: _____

Date: _____

Exhibit A – Statement of Work

Public Outreach Services (Rev.5/7/2024)

1.0 Introduction

Willamette Water Supply System Commission, formed by the Tualatin Valley Water District, the City of Hillsboro, and the City of Beaverton, (herein collectively referred to as "Owner"), are contracting with Consor North America, Inc. ("Consultant") with offices in Portland Oregon, to provide public outreach support services ("Consultant") for the Willamette Water Supply System ("WWSS") as described herein. The primary purpose of these services is to provide public engagement for multiple design and construction projects and program-wide communications covering key topics: preparing for the future; resilience, quality of the Willamette River, benefits and value of the investment, and how partnerships are playing a pivotal role in providing a long-term resilient water supply to Washington County.

2.0 Background

The Willamette Water Supply Program ("WWSP" or "Program") was formed by Owner to manage and deliver the WWSS. The WWSS is a drinking water infrastructure project that will provide Owner with a seismically resilient water supply, designed to meet future demand and will provide redundancy in case of an emergency event. The WWSS includes more than thirty (30) miles of transmission pipelines, ranging from 36-inches to 66-inches in diameter from the Willamette River Water Treatment Plant ("WRWTP") in Wilsonville, Oregon, north to the District service area, Hillsboro, Oregon and Beaverton, Oregon. The WWSS also includes constructing finished water storage tanks (terminal storage) a new water treatment plant, and expansion of the existing WRWTP raw water facilities. For additional history and information, visit www.ourreliablewater.org.

3.0 Scope of Services

1. Project Communications Support

Consor Strategic Planning & Communications will continue to support Program staff to develop and implement outreach strategies for the design and construction packages. Specific assignments include:

- **Raw Water Facilities RWF_1.0**
(Marlys Ryan/Melissa Porter)
- **Wilsonville Area Pipeline Projects PLM_1.0**
(Tammy Menkerud/Marlys Ryan)
 - Wilsonville Road to Garden Acres (PLM_1.3)
- **Tualatin-Sherwood Area Pipeline Project PLM_4.0**
(Kimi Sloop/Melissa Porter)
 - [Hwy 99 Crossing \(PLM_4.1\)](#)
 - [Tualatin-Sherwood Road \(PLM_4.2\)](#)
 - Roy Rodgers Rd (PLM_4.3)
 - Chicken Creek to Borchers Dr (PLM_4.4)
- **Scholls Area Pipeline Project PLM_5.0**
(Kimi Sloop/Melissa Porter)

- Grabhorn Rd at Tile Flat to Rosedale Rd (PLM 5.3)
- **South Hillsboro Area Pipeline Project PLW_21.0**
(Kimi Sloop/Melissa Porter)
 - Farmington to Blanton (PLW 1.3) (No work expected after June 30, 2024)-
- **Cornelius Pass Pipeline Project PLW_2.0**
(Marlys Ryan/Melissa Porter/Isaac Estrada)
- **Metzger Pipeline Project MPE_1.0**
(David Marciniak/Melissa Porter/Katie Wilson/Isaac Estrada)
- **Willamette River Water Treatment Plant Expansion WTP_1.0**
(David Marciniak/Melissa Porter)
- **South Beaverton Area Water Storage Tanks RES_1.0**
(Marlys Ryan/Kimi Sloop/Melissa Porter)

Support is deployed for these projects as directed by the WWSP Communications Supervisor.

Tasks include:

- Implement construction outreach plans.
- Develop materials for pipeline route neighbors and support distribution efforts.
- Develop impacted businesses database and access surveys.
- Develop and support presentations to CPOs and neighborhood groups.
- Visit with project neighbors including back-yard visits with immediate and small group gatherings.
- Update pipeline route and reservoir site information on the Program website.
- Develop messaging, news releases, website updates as needed.
- Attend meetings and coordinate with WWSP and partner agencies' and construction teams.
- Review construction documents.
- Close-out activities (easements and post-construction structural assessments)
- Supporting tours and ribbon-cutting events

2. Systemwide Communications Support

Conсор Strategic Planning & Communications will support the Willamette Water Supply Program on communications as directed by the WWSP Communications Supervisor. Work will focus on key Program topics: preparing for the future, Willamette River water quality and treatment, program benefits, rates, resilience, planning for Startup and Commissioning.

- Update and create new Program messaging for Willamette Water Monthly, website, fact sheets and media responses.
- Update and create new materials and graphics that support messaging, including the Program's safety program, the annual achievement video and potentially a new video about the Willamette River water supply "coming soon" to show at public venues and community cable channels.
- Support Program staff on events that promote or educate the public: treatment plant tours, farmers markets, etc.
- Create and update PowerPoint presentations and talking points.
- Give and support presentations to community organizations, water-related organizations, non-profits and others.
- Provide website updates: posting stories; updating meeting locations/dates/times; and other activities as directed by staff.

- Compile and track interested parties and events in e-Builder.
- Support Program staff with Community Liaison meetings with PIOs from Washington County communities.
- Develop designs for Program giveaways.
- Complete other activities, including outreach support for Water Integration activities, as directed by Program staff.

4.0 Project Management and Administration Tasks and Deliverables

Conсор Strategic Planning & Communications will attend/participate in the following project management meetings:

- Participate in/facilitate special communication coordination meetings as needed.
- Attend and support Program staff needs in twice monthly communications team meetings.
- Attend weekly communications work sessions.

Project administration includes:

- Develop work scopes and schedules.
- Monthly invoices and progress reports.
- Budget forecasting.
- Quarterly Net Spend Requests

5.0 Resource Requirements

Consultant is responsible for providing the necessary personnel, material, software, and equipment to perform the Work described herein in accordance with the Agreement Documents.

6.0 Key Personnel

Consultant's personnel listed below are considered essential to the Work being performed hereunder. No substitution of key personnel or subconsultants shall be made by Consultant without written consent from the Owner. Owner reserves the right to require replacement of key personnel at the sole discretion of Owner.

Libby Bakke, Kimi Sloop, Tammy Menkerud, Melissa Porter, Julie Hunter, Clark Worth

7.0 Owner's Representative

Marlys Ryan, WWSP Communications Supervisor, shall be the Owner's Representative and can be contacted at 503-941-4563 and marlys@tvwd.org.

**Willamette Water Supply Program: Consor Public Outreach Budget
June 1, 2024 – July 31, 2025 (Rev. 4-10-2024)***

Willamette Water Supply Program: Consor Public Outreach Budget June 1 2024-July 31 2025 ESTIMATE							
(Revised 4-10-2024)							
Tasks	Principal II & I	Project Manager III	Project Manager I	Project Coordinator IV	Project Coordinator III	Labor Costs by Task	Hours by Task
Project Communications Support	178	446	648	0	576	\$366,846.86	1848
Raw Water Facilities RWF 1.0	14	0	70	0	16	\$20,515.82	100
Tualatin-Sherwood Area Pipeline Project PLM 4.0	0	82	0	0	40	\$24,686.34	122
South Beaverton Area Water Storage Tanks RES 1.0	0	120	40	0	60	\$44,601.00	220
Cornelius Pass Pipeline Project PLW 2.0	24	0	168	0	80	\$52,473.52	272
Scholls Ferry- Roy Rogers to Fano Creek MPE 1.3	24	24	200	0	200	\$81,517.36	448
Wilsonville Area Pipeline Project PLM 1.3	100	0	58	0	140	\$58,776.94	298
Willamette River Water Treatment Plant WTP 1.0	16	40	60	0	0	\$26,047.72	116
Scholls Area Pipeline Project PLM 5.3	0	180	52	0	40	\$58,228.16	272
Systemwide Communications Support	90	50	75			\$51,552.05	215
Project Management & Administration	120	0	0	26	0	\$36,589.44	146
Total Hours	388	496	723	26	576		2209
Total	\$105,272.16	\$115,354.72	\$149,465.79	\$4,031.04	\$80,864.64	\$454,988.35	
Hourly Rates for Professional Services							
Consor	2024-2025 Rates						
Principal II	\$271.32						
Principal I	\$271.32						
Project Manager III	\$232.57						
Project Manager II	\$229.84						
Project Manager I	\$206.73						
Project Coordinator IV	\$155.04						
Project Coordinator III	\$140.39						
Project Coordinator II	\$123.54						
Administration II	\$103.36						
Professional Services							
Consor	\$454,988						
Six Foot Eight Graphics (120 hours @ \$116/hr)	\$13,920						
Josh Kulla Photography	\$20,000						
Allied Video	\$7,500						
Total Professional Services			\$496,408.35				
Direct Expenses*							
Travel	800						
Meeting Expenses	400						
Total Direct Expenses			\$1,200.00				
TOTAL PROJECT				\$497,608.35			
* Assumes client responsible for mass printing and distribution of reports and printed materials; advertising and public notice, room rental and refreshments for meetings.							

*Revised 11-5-2023 estimate to include additional hours for supporting close-out activities (easements and post-construction structural assessments), tours and ribbon-cutting events.

- Raw Water Facilities RWF_1.0 10 hours
- South Beaverton Area Water Storage Tanks RES_1.0 20 hours
- Scholls Ferry- Roy Rogers to Fano Creek MPE_1.3 40 hours
- Willamette River Water Treatment Plant WTP_1.0 20 hours
- Scholls Area Pipeline Project PLM_5.3 20 hours

Exhibit B—Consultant Rates

Conсор

Willamette Water Supply Program – Task Order 005 to MSA 2019-043

7/1/2023 – 6/30/2024

Hourly Rates for Professional Services

CPI-U, West Region Size Class B/C July 2022

Conсор Staff	2022-2023 Rate	CPI July 2022	2023-2024 Rate
Principal II	\$241.59	8.3%	\$261.64
Principal I	\$241.59	8.3%	\$261.64
Project Manager III	\$207.08	8.3%	\$224.27
Project Manager II	\$204.65	8.3%	\$221.64
Project Manager I	\$184.07	8.3%	\$199.35
Project Coordinator IV	\$138.05	8.3%	\$149.51
Project Coordinator III	\$125.00	8.3%	\$135.38
Project Coordinator II	\$110.00	8.3%	\$119.13
Administration II	\$92.03	8.3%	\$99.67

Willamette Water Supply System Commission

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Willamette Water Supply
Our Reliable Water

6B. Approve Master Services Agreement (MSA)
No. 2019-043 Task Order #6 for Public Outreach Services
– *Christina Walter*

WWSS Board Meeting
June 6, 2024

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Conсор (Public Outreach Services)
Master Services Agreement Task Order #6 Overview

- 2014: Barney & Worth, Inc. was selected for Public Outreach Services through a competitive request for qualifications administered by TVWD
- 2014 through June 2019: WWSP used TVWD's MSA to issue annual task orders to Conсор (previously Barney & Worth)
- June 27, 2019: TVWD and City of Hillsboro jointly issued new MSA 2019-043 to Barney & Worth (now Conсор) to run through June 29, 2026, through a direct appointment

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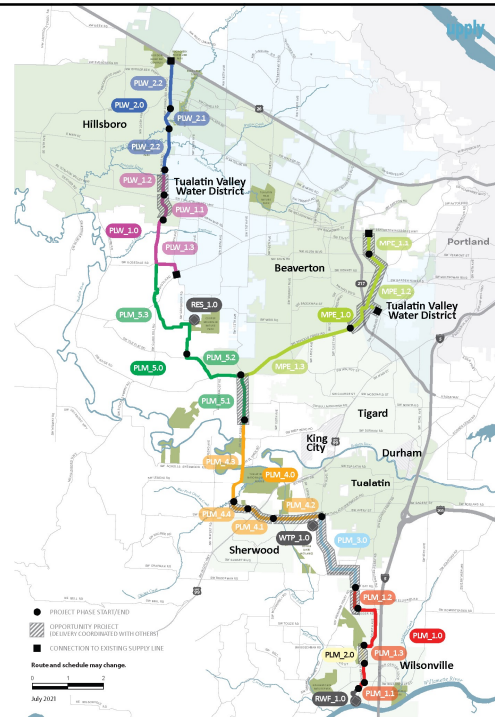
Historical budget and invoice data show good cost control

Fiscal Year	Approved Budget including Change Orders	Actual Invoiced Amount	Underspent Amount
FY20	\$323,461	\$323,457	\$4
FY21	\$376,057	\$376,056	\$1
FY22	\$397,700	\$396,316	\$1,355
FY23	\$503,264	\$498,218	\$5,045
FY24	\$641,325	\$641,325 (est.)	\$0 (est.)
FY25	\$497,608 (proposed)	--	--

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Public outreach services included in Task Order #6

- Develop messaging for Willamette Water Monthly, website, fact sheets, and responses to media inquiries
- Create and implement updates and outreach strategies for 13 active construction projects
- Create materials, graphics, and video that support messaging
 - Program's safety program,
 - Annual achievement video
- Give and support presentations to community organizations, water-related organizations, non-profits, and others
- Website updates: post stories; update meeting information; map updates; and other tasks directed by WWSP
- Support project construction close-outs



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Task Order #6 Partner cost shares

FY 2025 Public Outreach Consulting Services AWP Budget: \$497,608.35

Estimated Distribution:		
City of Beaverton	4.98%	\$24,780.90
City of Hillsboro	33.19%	\$165,156.21
TVWD	51.62%	\$256,865.43
TVWD – ONLY (MPE)	10.21%	\$50,805.81
TOTAL		\$497,608.35

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QUESTIONS?

6

6B. Requested Board Action

Consider approving Task Order #6 to MSA 2019-043, with Consor North America Inc., in the amount of \$497,608.35 to provide additional public outreach consulting services for the Willamette Water Supply Program during Fiscal Year 2025.

STAFF REPORT

To: WWSS Board of Commissioners
From: Mike Britch, P.E., WWSP Principal Engineer
Date: June 6, 2024
Subject: WTP Engineering Contract No. 2018-014 Amendment #30

Requested Board Action:

Consider approving CDM Smith contract amendment of up to \$2,626,448 to continue to provide consulting engineering services during construction for the WTP_1.0 project for the Willamette Water Supply Program (WWSP) through FY 2025.

Key Concepts:

- Implementation of WWSP requires assistance of consultants with expertise in design and construction of water treatment plants.
- The existing contract was procured and structured with the intent to enact periodic amendments to add scope and budget.
- The proposed amendment enables WWSP to maintain continuity of engineering services required for WTP_1.0 construction through June 30, 2025.

Background:

CDM Smith was selected through a competitive process to provide the WWSP with professional engineering services. The engineering services contract was approved and awarded in 2018 with a planned completion date of February 28, 2026. To date, 29 amendments have been approved to CDM Smith's contract.

CDM Smith completed the design of the water treatment plant. Currently, and for the past two years, they have been supporting the water treatment plant construction, primarily through review of contractor-produced documents, answering contractor questions, and issuing design clarifications. Timely performance of these services is critical to enabling the WTP_1.0 contractor (Sundt) to remain on schedule.

CDM Smith's efforts during the construction phase have been greater than anticipated, generally due to the unexpected number of permitting comments from the authority having jurisdiction (AHJ) and the high volume, complexity, and rounds of review required for contractor submittals. CDM's additional services for FY2024-25 generally fall into the following categories:

- Review and response to AHJ comments.
- Additional on-site support for construction.
- Response to contractor's shop drawings, requests for information, and other submittals.
- Issuance of design clarifications.

The original budget for CDM Smith's services was based on an assumed level of effort. Their approved budgets for permitting and design clarifications were exhausted earlier in 2024 and, based on current rates of spend, will require additional funds to complete efforts in the coming fiscal year.

The contributing factors to the requested budget increase include the following:

- The engineering services related to construction were originally negotiated approximately six years ago, based on an assumed level of effort for this work.
- The level of effort necessary to comply with the contract review staff for the AHJ associated with the building permit approval far exceeded what could have reasonably been foreseen.
- Contractor volume of submittal reviews, re-reviews, and design clarifications have substantially exceeded what was expected.
- Additional on-site engineering staff to monitor various elements of work and support advancement of the work by the contractor was not anticipated.

Budget Impact:

Amendment #30 includes a budget increase of up to \$2,626,448, with a breakdown of \$301,350 required in FY24 and \$2,325,098 in FY25. Anticipating the need for additional funds for CDM Smith, in the approved Baseline Budget 9.1, a budget line item of approximately \$3.1 million was included for these Engineering Services, which should be adequate for the completion of the WTP_1.0 project. This contract amendment will be funded through existing project contingencies.

Staff Contact Information:

David Kraska, P.E., WWSS General Manager; 503-941-4561; david.kraska@tvwd.org

Mike Britch, P.E., WWSP Principal Engineer; 503-941-4565; mike.britch@tvwd.org

Attachments:

- Exhibit 1: Draft WTP Engineering Contract No. 2018-014 Amendment #30

Amendment 30 to Agreement 2018-014
 FOR
 WTP_1.0 DESIGN, GMP DEVELOPMENT, AND SDC
 FOR
 THE WILLAMETTE WATER SUPPLY PROGRAM

This Amendment, effective the date as signed by Owner, is entered into by and between Willamette Water Supply System Commission ("Owner") and CDM SMITH ("Engineer").

WHEREAS, the Owner and Engineer entered into this Agreement for Engineer to provide WTP_1.0 Design, GMP Development, and SDC for the Willamette Water Supply Program.

WHEREAS, the Owner and Engineer desire to amend the Agreement by modifying the terms of the Agreement as follows:

This Amendment incorporates PCO-67 - Continued Efforts on Engineering Services During Construction

PCO#	Description	Time Impact (Days)	Change Amount
PCO - 64	Continued Efforts on Engineering Services During Construction	0	\$ 2,325,098.00

The Original Contract Sum was	\$22,986,946.68
Net Change by Previously Authorized Requests and Changes	\$4,397,629.62
The Contract Sum Prior to this Amendment was	\$27,384,576.30
The Contract Sum will change by	\$ 2,325,098.00
The New Contract Sum including this Amendment	\$29,709,674.30
The Contract Time will change by	0 Days
The Date of Contract Completion as of this Amendment Therefore is	8/28/2026

Except as modified or changed herein, all other terms and conditions of the original Agreement, or as previously amended, shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the Parties hereto have executed this Amendment 30 effective as of the date signed by Owner.

OWNER

By: _____
Name: _____
Title: _____
Date: _____

CDM SMITH

By: _____
Name: _____
Title: _____
Date: _____

**PCO-67 Contract No. 2018-014
WTP_1.0 Design, GMP Development, and SDC**

Amend the following Task items to reflect the increase in efforts needed to support the WTP_1.0 project: as per the attached Continued ESDC Efforts PCO 67 v1.

Task 2.1.2 - Project Management	\$103,338
Task 11.1.1 - Permit Modification Support	\$74,880
Task 16.1 - Submittals	\$1,216,800
Task 16.2 - Requests for Information	\$48,880
Task 16.3.1 - Design Clarifications	\$405,600
Task 16.4 - Site Observations and Factory Witness Testing	\$390,000
Lump Sump ODCs - ESDCs	\$85,600

Total \$2,325,098

Item	Description	Quantity	Units	Unit Price	Net Amount
149	2.1.2 - Project Management			\$ 0.00	\$103,338.00
123	16.1 - Submittals			\$	\$1,216,800.00
124	16.2 - Requests for Information			\$	\$48,880.00
125	16.3.1 - Design Clarifications			\$	\$405,600.00
127	16.4 - Site Observations and Witnesses Factory Testing			\$	\$390,000.00
143	Lump Sum ODCs - ESDC			\$	\$85,600.00
154	11.1.1 - Permit Modification Support			\$ 0.00	\$74,880.00
Total				\$	2,325,098.00

Willamette Water Supply System Commission

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Memorandum

To: *Matt Gribbins, PE
Project Manager
Willamette Water Supply Program WTP_1.0 Design*

From: *Greg Lindstadt*

Date: *May 22, 2024*

Subject: *Potential Change Order 67 (PCO-67)
Continued Efforts on Engineering Services During Construction*

Description of Changes

This PCO includes adjustments to the project to address Engineering Services During Construction (ESDC) efforts for Fiscal Year 2025 and as defined herein. This adjustment includes changes to the labor budget in the following areas:

- Commitment Item 123 - Task 16.1 Submittals
- Commitment Item 124 - Task 16.2 Requests for Information
- Commitment Item 125 - Task 16.3.1 Design Clarifications
- Commitment Item 127 - Task 16.4 Site Observations and Witnessed Factory Testing
- Commitment Item 143 - Lump Sum ODCs – ESDC
- Commitment Item 149 - Task 2.1.2 Project Management
- Commitment Item 154 - Task 11.1.1 Permit Modification Support

1. Commitment 123: Task 16.1 - Submittals

The existing budget of Task 16.1 will have been consumed near the start of FY 2025 at recent average level of effort. The Task 16.1 budget will be increased by \$1,216,800.00 to provide for continuing support through the end of FY 2025 (June 30, 2025).

2. Commitment 124: Task 16.2 – Requests for Information

The budget of Task 16.2 is estimated to be depleted shortly before the end of FY 2025. The Task 16.2 budget will be increased by \$48,880.00 to provide for continuing support through the end of FY 2025 (June 30, 2025).

3. Commitment Item 125: Task 16.3.1 – Design Clarifications

Under Amendment 29, a portion of the Task 16.4 budget was temporarily transferred to Task 16.3 to fund efforts through the remainder of FY 2024. The Task 16.3 budget will be increased by \$405,600 to cover estimated efforts through the end of FY 2025 (June 30, 2025).

4. Commitment 127: Task 16.4 - Site Observations and Witnessed Factory Testing

- a. WWSP anticipates requesting the services of an on-site Building Mechanical engineer for up to 9 months starting in FY 2025. The Task 16.4 budget will be increased by \$180,000.00 to provide this support.
- b. WWSP anticipates requesting the services of an on-site Electrical engineer for up to 9 months starting in FY 2025. The Task 16.4 budget will be increased by \$210,000.00 to provide this support.

5. Commitment 143: Lump Sum ODCs - ESDC

The execution of the increased efforts under Tasks 11 and 16 will incur additional direct costs. The Item 143 LSODC budget will be increased by \$85,600.00.

6. Commitment Item 149: Task 2.1.2 – Project Management

The Task 2.1.2 budget will be adjusted to account for the increased project management effort to enroll, subcontract, direct, track and coordinate the additional Task 11 and 16 efforts identified herein. The Task 2.1.2 labor budget will be increased by \$103,338.00.

7. Commitment 154: Task 11.1.1 – Permit Modification Support

The ongoing City of Sherwood and Washington County project review process will have consumed the existing budget near the start of FY 2025 at recent average level of effort. The Task 11.1.1 labor budget will be increased by \$74,880.00 to provide for continuing support through the end of FY 2025 (June 30, 2025).

Background and Justification for the Changes

1. Continued Submittal Support. Currently, budget is approximately 88% expended, while submittals processed are at 190% of the assumed total amount. The actual cost per

Continued Permitting and Design Clarification Efforts

May 22, 2024

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submittal to date is approximately 50% of the assumed amount. Approximately two months' worth remaining in budget. Additional budget is based on the following:

- a. Assume current average level of effort of approximately \$115,000 per month continues for the first six months of FY 2025.
 - b. Assume the level of effort then ramps down to approx. \$80,000 per month for the remainder of FY 2025.
2. Continued RFI Support. Currently, budget is approx. 65% expended, while RFIs processed are at approx. 75% of the assumed total amount. The actual cost per RFI to date is approximately 90% of the assumed amount. Approximately 13 months' worth remaining in budget. Additional budget is based on the following:
- a. Assume current average level of effort of approx. \$47,000 per month continues through FY 2025.
3. Continued Design Clarification and Construction Issue Support. The nature of Task 16.3.1 effort has changed significantly from what was originally assumed. To date, approximately 70% of the assumed 110 Design Clarifications (DCs) have been issued. While materials have been prepared and issued much more efficiently than assumed on a per sheet basis, the volume of material has greatly exceeded expectations and the average DC content has been significantly more than originally assumed. DC packages issued to satisfy unanticipated permitting agency requests have accounted for approx. 70% of material prepared and issued under Task 16.3.1 to date. In addition to DCs, Task 16.3.1 also covers efforts on:
- Resolution of more complex Contractor questions
 - Accepted contractor VE or constructability suggestions
 - Resolution of construction issues
 - Resolution of CM/GC contractor deficiencies

The material prepared and issued on design corrections and resolution of gaps or missing information is less than 20% of the total to date. Additional budget is based on the following:

- Assume current level of effort of approx. \$40,000 per month continues for the first six months of FY 2025.
 - Assume the level of effort then ramps down to approx. \$25,000 per month for the remainder of FY 2025.
4. Added On-Site Support.

Continued Permitting and Design Clarification Efforts

May 22, 2024

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- a. Under Amendment 29, a portion of the Task 16.4 budget was temporarily transferred to Tasks 2.1.2 and 16.3 to fund efforts through the remainder of FY 2024. This PCO addresses restoration of Task 16.4 budget to the prior level.
 - b. WWSP anticipates requesting the services of an on-site Building Mechanical engineer for up to 9 months starting in FY 2025. Building mechanical activities are projected to increase in intensity in FY 2025. The Contractor and WWSP have identified that the presence of an on-site building mechanical engineer to perform construction observation and facilitate coordination and resolution of field questions and issues will help the completion of this work and support the project goal of schedule recovery. Additional budget is based on the following:
 - Nine-month period running approximately from Q4 2024 through Q2 2025.
 - Time on site will be split between HVAC, Plumbing, and Fire Protection disciplines, depending upon project needs.
 - Building mechanical engineers will commute to the site from CDM Smith subconsultant Interface Engineering's local Portland office. Out-of-area travel not required.
 - Weekly charges to the project will average approx. half-time over the 9-month period.
 - Weekend and overtime efforts are not included.
 - c. WWSP anticipates requesting the services of an on-site Electrical engineer for up to 9 months starting in FY 2025. Construction electrical activities are projected to increase in intensity in FY 2025. The Contractor and WWSP have identified that the presence of an on-site electrical engineer to perform construction observation and facilitate coordination and resolution of field questions and issues will help the completion of this work and support the project goal of schedule recovery. Additional budget is based on the following:
 - Nine-month period running approximately from Q4 2024 through Q2 2025.
 - Electrical engineer will temporarily relocate to the Sherwood, OR area.
 - The electrical engineer will be committed approximately 50% to the WTP_1.0 project (approx. 750 hours) and will continue commitments to other projects for the remainder.
 - Weekend and overtime efforts are not included.
 - The representative will travel home one long weekend per month.
5. Added Direct Costs. The execution of the increased efforts under Tasks 11 and 16 will incur additional direct costs. Additional budget is based on the following:

Continued Permitting and Design Clarification Efforts

May 22, 2024

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- a. Task 11.1.1 Permitting Support – A total of \$1,600 for miscellaneous costs and in-area travel and meetings.
 - b. Task 16.1 Submittals – A total of \$3,000 for miscellaneous costs and in-area travel and meetings.
 - c. Task 16.2 RFIs - A total of \$1,000 for miscellaneous costs and in-area travel and meetings.
 - d. Task 16.3 DCs – A total of \$5,000 for miscellaneous costs and in-area travel and meetings, and potentially up to 3 out-of-area trips for specialist review of conditions.
 - e. Task 16.4 On-Site Representative, Building Mechanical – A total of \$3,000 for in-area travel.
 - f. Task 16.4 On-Site Representative, Electrical – includes:
 - Short-term (up to 3 weeks) hotel and living charges while researching and securing extended space.
 - Monthly furnished space for up to 9 months
 - Long term car rental/lease
 - Initial and final travel costs, and monthly return visits
 - Miscellaneous interim living and business expenses
 - Temporary office equipment
 - Totaling \$72,000
6. Added Project Management Support. The added and extended activities under Tasks 11 and 16 will increase project management effort to enroll, subcontract, direct, track and coordinate.
7. Extended Permitting Support. The City of Sherwood and Washington County project review was originally anticipated to be completed on the Conformed documents but has evolved into an on-going process now expected to continue through FY 2025. The Task budget will be increased to provide for continuing support through the end of FY 2025 (June 30, 2025). This PCO reflects the following assumptions:
- Future level of effort estimated at approximately \$6,000 per month.
 - No out-of-area travel is anticipated with this effort.

Effects of Change on Project

The proposed changes are expected to continue support of construction, expedite resolution of site issues and maintain or improve the construction schedule. Total change to the project budget is \$2,325,098.00.

Alternatives Considered

The alternative of allowing engineering support to drop off as budgets are expended was considered less desirable than providing for the necessary support in response to changed circumstances.

Risks, Opportunities, and Effects on Program or Other Projects

No risks, opportunities or effects on the Program or other projects have been identified as a result of this change.

Contract Time Impact Estimate

Zero days of impact to the contract time are anticipated at this time as a result of this change.

Summary

The proposed changes result in a \$2,325,098.00 increase to the currently authorized budget.

Task(s)	Task Description	Column A Total Authorized Fee (excluding expenses) (Through Amdnt 24)	Column B Authorized Consultant Labor	Column C Consultant Labor with current year escalation	Subconsultant Labor	Column D Subconsultant Labor with escalation	Column E Total Labor with escalation	Column F Percent Complete	Column G Total Requested Labor Escalation (based on percent complete)	Column H Proposed Total Fee (excluding expenses)
Task 2.0 Project Management and Administration										
2.1.1	Project Management Plan	\$ 39,551.75	\$ 39,551.75	\$ 41,478.54		\$ -	\$ 41,478.54	100%	\$ -	\$ 39,551.75
2.1.2	Project Management	\$ 513,191.65	\$ 484,111.10	\$ 507,694.85	\$ 29,080.55	\$ 30,497.23	\$ 538,192.07	93%	\$ 1,750.03	\$ 514,941.68
2.2	Health and Safety Plan	\$ 51,226.27	\$ 44,801.14	\$ 46,983.65	\$ 6,425.13	\$ 6,738.13	\$ 53,721.79	99%	\$ 20.41	\$ 51,246.68
2.3	Project Kickoff Meeting	\$ 14,003.32	\$ 14,003.32	\$ 14,685.50		\$ -	\$ 14,685.50	100%	\$ -	\$ 14,003.32
2.4	Design Progress Meetings	\$ 282,080.26	\$ 235,304.26	\$ 246,767.24	\$ 46,776.00	\$ 49,054.72	\$ 295,821.96	100%	\$ -	\$ 282,080.26
2.5	Construction Phase Progress Meetings	\$ 168,648.49	\$ 111,252.82	\$ 116,672.56	\$ 57,395.67	\$ 60,191.73	\$ 176,864.30	25%	\$ 6,161.86	\$ 174,810.35
2.6	Application for Payment and Progress Reports	\$ 342,955.40	\$ 342,955.40	\$ 359,662.67		\$ -	\$ 359,662.67	60%	\$ 6,682.91	\$ 349,638.31
2.7	Document Management Training	\$ 6,148.46	\$ 6,148.46	\$ 6,447.99		\$ -	\$ 6,447.99	100%	\$ -	\$ 6,148.46
2.8	Schedule Development and Monthly Update	\$ 125,833.25	\$ 125,833.25	\$ 131,963.29		\$ -	\$ 131,963.29	100%	\$ -	\$ 125,833.25
2.9	Design Change Log	\$ -	\$ -	\$ -		\$ -	\$ -	100%	\$ -	\$ -
2.1	Seismic Resiliency Work Group Participation	\$ 21,925.47	\$ -	\$ -	\$ 21,925.47	\$ 22,993.58	\$ 22,993.58	100%	\$ -	\$ 21,925.47
2.11	Water Quality Work Group Participation	\$ 60,938.41	\$ 60,938.41	\$ 63,907.06		\$ -	\$ 63,907.06	100%	\$ -	\$ 60,938.41
2.12.1	CM/GC Contractor Procurement Assistance	\$ 13,873.99	\$ 13,873.99	\$ 14,549.87		\$ -	\$ 14,549.87	100%	\$ -	\$ 13,873.99
2.12.2	CM/GC Contractor Kickoff Meeting	\$ 2,113.70	\$ (78.30)	\$ (82.11)	\$ 2,192.00	\$ 2,298.78	\$ 2,216.67	100%	\$ -	\$ 2,113.70
2.12.3	CM/GC Contractor OPCC and Schedule Development and Reviews	\$ 100,795.90	\$ 100,795.90	\$ 105,706.23		\$ -	\$ 105,706.23	100%	\$ -	\$ 100,795.90
2.12.4	CM/GC Contractor Commissioning and Startup Plan	\$ 100,362.99	\$ 92,308.07	\$ 96,804.91	\$ 8,054.92	\$ 8,447.32	\$ 105,252.23	24%	\$ 3,715.82	\$ 104,078.81
2.0 Subtotal		\$ 1,843,649.31	\$ 1,671,799.57	\$ 1,753,242.24	\$ 171,849.74	\$ 180,221.50	\$ 1,933,463.74		\$ 18,331.03	\$ 1,861,980.34
Task 4.0 Preliminary Design Report (PDR) (30% Design Drawings and Specifications)										
4.1	Review Existing Information	\$ 127,498.57	\$ 90,100.61	\$ 94,489.91		\$ 44,244.25	\$ 138,734.17	100%	\$ -	\$ 127,498.57
4.2	Gather Field Data	\$ 340,801.51	\$ 71,445.81	\$ 74,926.33		\$ 292,265.01	\$ 367,191.35	100%	\$ -	\$ 340,801.51
4.3	Associated Existing and Future Infrastructure	\$ 45,425.19	\$ 6,211.94	\$ 6,514.55		\$ 41,590.24	\$ 48,104.80	100%	\$ -	\$ 45,425.19
4.4	Traffic Impact Study	\$ 22,170.50	\$ 32,749.30	\$ 34,344.70		\$ 24,637.43	\$ 58,982.13	100%	\$ -	\$ 22,170.50
4.5.2	Process Design Criteria Workshop	\$ 10,763.48	\$ 11,129.52	\$ 11,671.70		\$ -	\$ 11,671.70	100%	\$ -	\$ 10,763.48
4.5.3	Unit Process Design Workshops	\$ 165,323.71	\$ 205,340.47	\$ 215,343.75		\$ -	\$ 215,343.75	100%	\$ -	\$ 165,323.71
4.5.4	Flow and Mass Balance Workshop	\$ 25,778.12	\$ 28,114.03	\$ 29,483.62		\$ -	\$ 29,483.62	100%	\$ -	\$ 25,778.12
4.5.5	Plant Hydraulics Workshop	\$ 87,048.80	\$ 89,468.02	\$ 93,826.50		\$ -	\$ 93,826.50	100%	\$ -	\$ 87,048.80
4.5.5.1	CFD Models	\$ 43,850.81	\$ 61,601.98	\$ 64,602.96		\$ -	\$ 64,602.96	100%	\$ -	\$ 43,850.81
4.5.5.2	Physical Models (if recommended by Engineer)	\$ 105,248.03	\$ 18,405.46	\$ 19,302.09		\$ 90,008.11	\$ 109,310.20	100%	\$ -	\$ 105,248.03
4.5.6	Civil Design and Site Layout Workshop	\$ 41,757.86	\$ 16,206.65	\$ 16,996.16		\$ 36,552.80	\$ 53,548.96	100%	\$ -	\$ 41,757.86
4.5.7	Electrical Design Criteria Workshop	\$ 18,414.39	\$ 4,529.80	\$ 4,750.47		\$ 15,883.41	\$ 20,633.88	100%	\$ -	\$ 18,414.39
4.5.8	Instrumentation and Control Design Criteria Workshops	\$ 154,716.89	\$ 156,228.18	\$ 163,838.93		\$ 2,852.39	\$ 166,691.32	100%	\$ -	\$ 154,716.89
4.5.9	Landscape Design Criteria Workshop	\$ 45,177.20	\$ 3,153.50	\$ 3,307.13		\$ 45,121.96	\$ 48,429.09	100%	\$ -	\$ 45,177.20
4.5.10	Architectural Concepts Workshop	\$ 64,552.89	\$ 22,205.90	\$ 23,287.67		\$ 47,712.67	\$ 71,000.34	100%	\$ -	\$ 64,552.89
4.5.11	Resiliency, Reliability, Redundancy, and Recovery Workshop	\$ 378,878.51	\$ 208,118.36	\$ 218,256.96		\$ 183,124.76	\$ 401,381.72	100%	\$ -	\$ 378,878.51
4.5.12	Corrosion Control Workshop	\$ 1,969.66	\$ 9,359.58	\$ 9,815.53		\$ 2,992.43	\$ 12,807.96	100%	\$ -	\$ 1,969.66
4.5.13	Procurement Plan Workshop	\$ 46,842.38	\$ 27,310.04	\$ 28,640.47		\$ 20,864.71	\$ 49,505.17	100%	\$ -	\$ 46,842.38
4.5.14	Operations and Maintenance Plan Workshop	\$ 79,050.58	\$ 79,928.38	\$ 83,822.14		\$ 1,382.98	\$ 85,205.11	100%	\$ -	\$ 79,050.58
4.5.15	Design Safety Review Plan Workshop	\$ 43,977.50	\$ 46,676.05	\$ 48,949.90		\$ 1,382.98	\$ 50,332.88	100%	\$ -	\$ 43,977.50
4.6.1	Preliminary Design Report (PDR)	\$ 93,760.41	\$ 52,491.16	\$ 55,048.30		\$ 48,080.02	\$ 103,128.32	100%	\$ -	\$ 93,760.41
4.6.2	Preliminary Design Report (PDR) Appendicies	\$ 28,538.30	\$ 23,688.60	\$ 24,842.60		\$ 6,229.20	\$ 31,071.80	100%	\$ -	\$ 28,538.30
4.6.3	Preliminary Control Narratives	\$ 53,035.48	\$ 50,283.86	\$ 52,733.47		\$ 4,321.80	\$ 57,055.27	100%	\$ -	\$ 53,035.48
4.6.4	Preliminary Easement Needs	\$ 1,232.08	\$ 2,943.74	\$ 3,087.15		\$ 1,776.78	\$ 4,863.93	100%	\$ -	\$ 1,232.08
4.6.5	Draft Geotechnical Design Report	\$ 51,352.74	\$ 10,732.05	\$ 11,254.87		\$ 42,334.18	\$ 53,589.05	100%	\$ -	\$ 51,352.74

4.6.6	Draft and Final Geotechnical Data Report	\$ 26,446.69	\$ 6,144.14	\$ 6,443.46		\$ 26,706.77	\$ 33,150.22	100%	\$ -	\$ 26,446.69
4.6.7	30% Design Drawings	\$ 1,595,143.08	\$ 995,995.46	\$ 1,044,515.94		\$ 644,179.73	\$ 1,688,695.67	100%	\$ -	\$ 1,595,143.08
4.7	30% Design Opinion of Probable Construction Cost (OPCC)	\$ 120,443.26	\$ 105,569.79	\$ 110,712.68		\$ 18,264.28	\$ 128,976.97	100%	\$ -	\$ 120,443.26
4.8	30% Value Engineering Workshop	\$ 60,170.17	\$ 42,335.62	\$ 44,398.03		\$ 20,788.98	\$ 65,187.01	100%	\$ -	\$ 60,170.17
4.9	30% Constructability Workshop	\$ 46,502.74	\$ 33,465.78	\$ 35,096.08		\$ 14,781.68	\$ 49,877.76	100%	\$ -	\$ 46,502.74
4.10	30% Pre-submittal Informational Workshop	\$ 19,436.67	\$ 17,888.28	\$ 18,759.72		\$ 5,801.09	\$ 24,560.81	100%	\$ -	\$ 19,436.67
4.11	30% Post-submittal Technical Review Workshop	\$ 25,572.23	\$ 20,823.61	\$ 21,838.05		\$ 8,607.99	\$ 30,446.03	100%	\$ -	\$ 25,572.23
4.0 Subtotal		\$ 3,970,880.43	\$ 2,550,645.66	\$ 2,674,901.82		\$ 1,692,488.63	\$ 4,367,390.45		\$ -	\$ 3,970,880.43
Task 5.0 60% Design										
5.2	Final Control Narratives	\$ 163,539.26	\$ 161,221.47	\$ 169,075.46		\$ 6,910.00	\$ 175,985.46	100%	\$ -	\$ 163,539.26
5.3	Traffic Control Plans	\$ 11,758.01	\$ 9,659.43	\$ 10,130.00		\$ 13,770.21	\$ 23,900.20	100%	\$ -	\$ 11,758.01
5.4	Hazard and Operability (HAZOP) Study	\$ 228,062.70	\$ 219,278.89	\$ 229,961.19		\$ 14,694.12	\$ 244,655.31	100%	\$ -	\$ 228,062.70
5.5	Access, Lifting, and Maintenance (ALM) Study	\$ 103,761.95	\$ 106,688.97	\$ 111,886.38		\$ 6,319.83	\$ 118,206.21	100%	\$ -	\$ 103,761.95
5.6	Pipe Design Analysis (include basis for cutoff between large/small piping an	\$ 60,879.76	\$ 61,810.55	\$ 64,821.69			\$ 64,821.69	100%	\$ -	\$ 60,879.76
5.7	60% Grading, Erosion, and Stormwater Quality Control Plans	\$ 22,564.13	\$ 1,989.61	\$ 2,086.53		\$ 28,829.13	\$ 30,915.66	100%	\$ -	\$ 22,564.13
5.8	60% Security System	\$ 143,128.46	\$ 109,784.05	\$ 115,132.25		\$ 35,855.32	\$ 150,987.56	100%	\$ -	\$ 143,128.46
5.9.1	60% Value Engineering Workshop	\$ 65,335.46	\$ 44,591.06	\$ 46,763.34		\$ 21,408.95	\$ 68,172.29	100%	\$ -	\$ 65,335.46
5.9.2	60% Constructability Workshop	\$ 44,362.09	\$ 34,296.04	\$ 35,966.79		\$ 10,749.28	\$ 46,716.07	100%	\$ -	\$ 44,362.09
5.9.3	60% Pre-submittal Informational Workshop	\$ 24,830.72	\$ 18,612.58	\$ 19,519.30		\$ 6,967.98	\$ 26,487.28	100%	\$ -	\$ 24,830.72
5.9.4	60% Post-submittal Technical Review Workshop	\$ 31,527.81	\$ 21,427.50	\$ 22,471.35		\$ 10,992.45	\$ 33,463.80	100%	\$ -	\$ 31,527.81
5.10.1	60% Drawings and Specifications	\$ 3,381,884.97	\$ 2,173,550.56	\$ 2,279,436.31		\$ 1,291,933.74	\$ 3,571,370.05	100%	\$ -	\$ 3,381,884.97
5.10.2	Draft Design Data Handbook	\$ 134,965.54	\$ 112,425.23	\$ 117,902.09		\$ 26,396.95	\$ 144,299.03	100%	\$ -	\$ 134,965.54
5.10.3	Final Easement Needs	\$ 4,543.79	\$ 2,122.18	\$ 2,225.56		\$ 3,441.65	\$ 5,667.21	100%	\$ -	\$ 4,543.79
5.10.4	Final Geotechnical Design Report	\$ 19,196.76	\$ 4,060.93	\$ 4,258.76		\$ 19,838.55	\$ 24,097.31	100%	\$ -	\$ 19,196.76
5.10.5	Final Control Strategies	\$ 80,366.95	\$ 73,789.35	\$ 77,384.04		\$ 8,816.47	\$ 86,200.51	100%	\$ -	\$ 80,366.95
5.10.6	Updated WTP Equipment List	\$ 9,746.91	\$ 12,149.79	\$ 12,741.67		\$ 2,250.34	\$ 14,992.01	100%	\$ -	\$ 9,746.91
5.10.7	Final Traffic Impact Study	\$ 4,273.48	\$ 3,388.83	\$ 3,553.92		\$ 4,893.00	\$ 8,446.92	100%	\$ -	\$ 4,273.48
5.10.8	Draft Erosion and Sediment Control Plans	\$ 1,694.46	\$ 2,019.41	\$ 2,117.78		\$ 5,545.00	\$ 7,662.78	100%	\$ -	\$ 1,694.46
5.0 Subtotal		\$ 4,536,423.21	\$ 3,172,866.41	\$ 3,327,434.40		\$ 1,519,612.95	\$ 4,847,047.35		\$ -	\$ 4,536,423.21
Task 6.0 Land Use Application Submittal										
Workshops (not covered elsewhere)		\$ -	\$ -	\$ -		\$ -	\$ -	0%	\$ -	\$ -
6.1.1	Land Use Informational Workshop	\$ -	\$ -	\$ -		\$ -	\$ -	0%	\$ -	\$ -
6.1.2	Land Use Application Submittal Review Workshop	\$ 1,541.32	\$ 1,541.32	\$ 1,616.41		\$ -	\$ 1,616.41	100%	\$ -	\$ 1,541.32
Deliverables (not covered elsewhere)		\$ -	\$ -	\$ -		\$ -	\$ -	0%	\$ -	\$ -
6.2.1	Revised Narrative Descriptions	\$ 20,288.48	\$ 11,768.48	\$ 12,341.79	\$ 8,520.00	\$ 8,935.06	\$ 21,276.84	100%	\$ -	\$ 20,288.48
6.2.2	Hazardous Materials Management Plan (HMMP)	\$ 32,758.09	\$ 32,758.09	\$ 34,353.92		\$ -	\$ 34,353.92	100%	\$ -	\$ 32,758.09
6.2.3	Review CM/GC Contractor Construction Management Plan	\$ 2,692.35	\$ 2,692.35	\$ 2,823.51		\$ -	\$ 2,823.51	100%	\$ -	\$ 2,692.35
6.2.4	Life Safety Report	\$ 32,553.29	\$ 32,553.29	\$ 34,139.14		\$ -	\$ 34,139.14	0%	\$ 1,585.85	\$ 34,139.14
6.2.5	Final Erosion and Sediment Control Plans	\$ 5,069.42	\$ (180.58)	\$ (189.38)	\$ 5,250.00	\$ 5,505.76	\$ 5,316.38	100%	\$ -	\$ 5,069.42
6.2.6	Draft and Final Land Use Application Package Figures	\$ 125,715.78	\$ 37,834.33	\$ 39,677.45	\$ 87,881.45	\$ 92,162.64	\$ 131,840.10	100%	\$ -	\$ 125,715.78
6.0 Subtotal		\$ 220,618.73	\$ 118,967.28	\$ 124,762.84	\$ 101,651.45	\$ 106,603.46	\$ 231,366.30		\$ 1,585.85	\$ 222,204.58
Task 7.0 90% Design										
Workshops (not covered elsewhere)		\$ -	\$ -	\$ -		\$ -	\$ -	0%	\$ -	\$ -
7.2.1	90% Value Engineering Workshop	\$ 58,588.81	\$ 45,522.03	\$ 47,739.66	\$ 13,066.78	\$ 13,703.34	\$ 61,443.00	100%	\$ -	\$ 58,588.81
7.2.2	90% Security System Workshop	\$ 46,411.90	\$ 38,279.19	\$ 40,143.98	\$ 8,132.71	\$ 8,528.90	\$ 48,672.88	100%	\$ -	\$ 46,411.90
7.2.3	90% GMP Package 1 Pre-submittal Informational Workshop	\$ 6,767.92	\$ 1,387.00	\$ 1,454.57	\$ 5,380.92	\$ 5,643.05	\$ 7,097.62	100%	\$ -	\$ 6,767.92
7.2.4	90% GMP Package 2 Pre-submittal Informational Workshop	\$ 33,944.91	\$ 28,563.99	\$ 29,955.51	\$ 5,380.92	\$ 5,643.05	\$ 35,598.56	100%	\$ -	\$ 33,944.91
7.2.5	90% GMP Package 1 Post-submittal Technical Review Workshop	\$ 12,724.73	\$ 7,343.81	\$ 7,701.57	\$ 5,380.92	\$ 5,643.05	\$ 13,344.62	100%	\$ -	\$ 12,724.73
7.2.6	90% GMP Package 2 Post-submittal Technical Review Workshop	\$ 28,245.51	\$ 24,800.33	\$ 26,008.50	\$ 3,445.18	\$ 3,613.01	\$ 29,621.51	100%	\$ -	\$ 28,245.51
Deliverables (not covered elsewhere)		\$ 25,188.58	\$ 25,188.58	\$ 26,415.66		\$ -	\$ 26,415.66	100%	\$ -	\$ 25,188.58
7.3.1	Updated Design Data Handbook	\$ 66,095.88	\$ 66,095.88	\$ 69,315.78		\$ -	\$ 69,315.78	100%	\$ -	\$ 66,095.88

7.3.2	90% Drawings and Specifications for GMP Package 1	\$ 1,240,792.68	\$ 950,953.68	\$ 997,279.93	\$ 289,839.00	\$ 303,958.67	\$ 1,301,238.60	100%	\$ -	\$ 1,240,792.68
7.3.3	90% Drawings and Specifications for GMP Package 2	\$ 2,017,934.44	\$ 1,230,097.27	\$ 1,290,022.16	\$ 787,837.17	\$ 826,217.10	\$ 2,116,239.27	100%	\$ -	\$ 2,017,934.44
7.3.4	90% Drawings and Specifications for Security System	\$ 168,188.87	\$ 159,914.06	\$ 167,704.36	\$ 8,274.81	\$ 8,677.92	\$ 176,382.29	100%	\$ -	\$ 168,188.87
7.3.5	Draft Construction Submittal Register	\$ 47,173.67	\$ 35,234.91	\$ 36,951.40	\$ 11,938.76	\$ 12,520.36	\$ 49,471.76	100%	\$ -	\$ 47,173.67
7.3.6	90% Grading, Erosion, and Stormwater Quality Control Plans	\$ 2,026.83	\$ 2,026.83	\$ 2,125.57		\$ -	\$ 2,125.57	100%	\$ -	\$ 2,026.83
7.3.7	Geotechnical Review of 90% Drawings and Specifications	\$ 17,979.29	\$ 5,740.60	\$ 6,020.26	\$ 12,238.69	\$ 12,834.90	\$ 18,855.16	100%	\$ -	\$ 17,979.29
7.0 Subtotal		\$ 3,772,064.02	\$ 2,621,148.18	\$ 2,748,838.91	\$ 1,150,915.84	\$ 1,206,983.36	\$ 3,955,822.27		\$ -	\$ 3,772,064.02
Task 8.0 100% Design (Ready for GMP Development)										
8.1.1	100% Drawings and Specifications for GMP Package 1	\$ 595,640.59	\$ 368,909.95	\$ 386,881.61	\$ 226,730.64	\$ 237,775.95	\$ 624,657.56	100%	\$ -	\$ 595,640.59
8.1.2	100% Drawings and Specifications for GMP Package 2	\$ 1,526,996.97	\$ 774,080.74	\$ 811,790.52	\$ 752,916.23	\$ 789,594.97	\$ 1,601,385.50	100%	\$ -	\$ 1,526,996.97
8.1.3	100% Grading, Erosion, and Stormwater Quality Control Plans	\$ 20,075.43	\$ 7,207.94	\$ 7,559.08	\$ 12,867.49	\$ 13,494.33	\$ 21,053.42	100%	\$ -	\$ 20,075.43
8.1.4	100% Security System	\$ 102,232.11	\$ 102,232.11	\$ 107,212.41		\$ -	\$ 107,212.41	100%	\$ -	\$ 102,232.11
8.1.5	Geotechnical Review of 90% Drawings and Specifications	\$ 8,625.67	\$ 1,956.60	\$ 2,051.92	\$ 6,669.07	\$ 6,993.96	\$ 9,045.87	100%	\$ -	\$ 8,625.67
8.0 Subtotal		\$ 2,253,570.77	\$ 1,254,387.34	\$ 1,315,495.54	\$ 999,183.43	\$ 1,047,859.22	\$ 2,363,354.75		\$ -	\$ 2,253,570.77
Task 11.0 Permitting/Land Use Support										
11.1.1	Permit Modification Support	\$ 396,225.36	\$ 217,577.67	\$ 228,177.09	\$ 178,647.69	\$ 187,350.61	\$ 415,527.70	76%	\$ 4,632.56	\$ 400,857.92
11.1.2	PGE Right-of-Way Application Support	\$ 472.50	\$ 472.50	\$ 495.52	\$ -	\$ -	\$ 495.52	100%	\$ -	\$ 472.50
11.1.3	Regulatory Agency and PGE Meetings	\$ 47,459.00	\$ 39,219.00	\$ 41,129.58	\$ 8,240.00	\$ 8,641.42	\$ 49,770.99	100%	\$ -	\$ 47,459.00
11.1.4	Written Response to Owner/Agency Review Comments	\$ 64,179.69	\$ 32,181.67	\$ 33,749.42	\$ 31,998.02	\$ 33,556.82	\$ 67,306.24	100%	\$ -	\$ 64,179.69
11.0 Subtotal		\$ 508,336.55	\$ 289,450.84	\$ 303,551.60	\$ 218,885.71	\$ 229,548.85	\$ 533,100.45		\$ 4,632.56	\$ 512,969.11
Task 12.0 Right of Way Engineering/Drawings and Descriptions										
12.0	Right of Way Engineering/Drawings and Descriptions	\$ 2,667.55	\$ 131.55	\$ 137.96	\$ 2,536.00	\$ 2,659.54	\$ 2,797.50	100%	\$ -	\$ 2,667.55
12.0 Subtotal		\$ 2,667.55	\$ 131.55	\$ 137.96	\$ 2,536.00	\$ 2,659.54	\$ 2,797.50		\$ -	\$ 2,667.55
Task 13.0 Public Outreach Support										
13.0	Public Outreach Support	\$ 22,055.77	\$ 17,648.66	\$ 18,508.42	\$ 4,407.11	\$ 4,621.81	\$ 23,130.23	7%	\$ 999.25	\$ 23,055.02
13.0 Subtotal		\$ 22,055.77	\$ 17,648.66	\$ 18,508.42	\$ 4,407.11	\$ 4,621.81	\$ 23,130.23		\$ 999.25	\$ 23,055.02
Task 14.0 Coordination with Others										
14.0	Coordination with Others	\$ 118,218.77	\$ 107,820.77	\$ 113,073.32	\$ 10,398.00	\$ 10,904.54	\$ 123,977.86	88%	\$ 691.09	\$ 118,909.86
14.0 Subtotal		\$ 118,218.77	\$ 107,820.77	\$ 113,073.32	\$ 10,398.00	\$ 10,904.54	\$ 123,977.86		\$ 691.09	\$ 118,909.86
Task 15.0 GMP Development Phase Services										
15.1.1	Business Outreach Events	\$ 1,571.40	\$ 1,571.40	\$ 1,647.95		\$ -	\$ 1,647.95	100%	\$ -	\$ 1,571.40
15.1.2	CM/GC Contractor Procurement Planning Participation	\$ 10,412.42	\$ 10,412.42	\$ 10,919.67		\$ -	\$ 10,919.67	100%	\$ -	\$ 10,412.42
15.1.3	Written Responses during GMP Package 1 Development	\$ 34,280.96	\$ 28,912.96	\$ 30,321.47	\$ 5,368.00	\$ 5,629.51	\$ 35,950.98	100%	\$ -	\$ 34,280.96
15.1.4	Review of CM/GC Contractor's Package 1 Subcontractor Bids	\$ 3,462.26	\$ 1,634.26	\$ 1,713.87	\$ 1,828.00	\$ 1,917.05	\$ 3,630.93	100%	\$ -	\$ 3,462.26
15.1.5	Written Responses during GMP Package 2 Development	\$ 99,063.15	\$ 83,916.76	\$ 88,004.81	\$ 15,146.39	\$ 15,884.26	\$ 103,889.07	85%	\$ 723.89	\$ 99,787.04
15.1.6	Review of CM/GC Contractor's Package 2 Subcontractor Bids	\$ 20,004.08	\$ 10,820.33	\$ 11,347.45	\$ 9,183.75	\$ 9,631.14	\$ 20,978.59	42%	\$ 565.22	\$ 20,569.30
15.1.7	Conformed Documents for GMP Package 1	\$ 76,187.72	\$ 39,236.26	\$ 41,147.67	\$ 36,951.46	\$ 38,751.58	\$ 79,899.25	100%	\$ -	\$ 76,187.72
15.1.8	Conformed Documents for GMP Package 2	\$ 80,463.17	\$ 42,866.68	\$ 44,954.96	\$ 37,596.49	\$ 39,428.02	\$ 84,382.98	100%	\$ -	\$ 80,463.17
15.0 Subtotal		\$ 325,445.16	\$ 219,371.07	\$ 230,057.85	\$ 106,074.09	\$ 111,241.55	\$ 341,299.41		\$ 1,289.11	\$ 326,734.27
Task 16.0 Engineering Services During Construction										
16.1	Submittals	\$ 2,528,869.15	\$ 2,032,304.85	\$ 2,131,309.74	\$ 496,564.30	\$ 520,754.71	\$ 2,652,064.45	38%	\$ 76,381.09	\$ 2,605,250.24
16.2	Requests for Information	\$ 1,673,576.41	\$ 1,211,481.99	\$ 1,270,500.03	\$ 462,094.42	\$ 484,605.61	\$ 1,755,105.64	31%	\$ 56,255.17	\$ 1,729,831.58
16.3.1	Design Clarifications	\$ 394,320.33	\$ 279,955.43	\$ 293,593.62	\$ 114,364.90	\$ 119,936.25	\$ 413,529.87	90%	\$ 1,920.95	\$ 396,241.28
16.3.1.a	blowoff meeting	\$ 21,639.91	\$ 21,639.91	\$ 22,694.11	\$ -	\$ -	\$ 22,694.11	3%	\$ 1,022.57	\$ 22,662.48
16.3.1.b	Blowoff performance spec 60%	\$ 17,157.86	\$ 17,157.86	\$ 17,993.71	\$ -	\$ -	\$ 17,993.71	56%	\$ 367.78	\$ 17,525.64
16.3.1.c	blowoff performance spec 90%	\$ 21,752.09	\$ 21,752.09	\$ 22,811.76	\$ -	\$ -	\$ 22,811.76	18%	\$ 868.93	\$ 22,621.02
16.3.1.d	Blowoff performance spec 100%	\$ 9,197.10	\$ 9,197.10	\$ 9,645.14	\$ -	\$ -	\$ 9,645.14	0%	\$ 448.04	\$ 9,645.14

16.3.1.e	Blowoff Geotech site exploration	\$ 17,777.57	\$ 1,719.22	\$ 1,802.97	\$ 16,058.35	\$ 16,840.64	\$ 18,643.61	95%	\$ 43.30	\$ 17,820.87
16.3.1.f	Blowoff Geotech Analyses	\$ 29,520.07	\$ 1,719.22	\$ 1,802.97	\$ 27,800.85	\$ 29,155.18	\$ 30,958.16	49%	\$ 733.42	\$ 30,253.49
16.3.1.g	Blowoff Floodplain Manager meeting	\$ 3,701.80	\$ 3,701.80	\$ 3,882.14	\$ -	\$ -	\$ 3,882.14	66%	\$ 61.31	\$ 3,763.11
16.3.1.h	Blowoff HEC RAS No-Rise	\$ 26,015.74	\$ 26,015.74	\$ 27,283.11	\$ -	\$ -	\$ 27,283.11	0%	\$ 1,267.37	\$ 27,283.11
16.3.1.i	Blowoff Hydraulics	\$ 38,871.24	\$ 38,871.24	\$ 40,764.87	\$ -	\$ -	\$ 40,764.87	0%	\$ 1,893.63	\$ 40,764.87
16.3.2	Resolution of Construction Issues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
16.4	Site Observations and Witnesses Factory Testing	\$ 2,377,827.29	\$ 2,305,665.88	\$ 2,417,987.71	\$ 72,161.41	\$ 75,676.79	\$ 2,493,664.50	18%	\$ 94,986.51	\$ 2,472,813.80
16.5	Change Order Support	\$ 237,993.55	\$ 199,312.34	\$ 209,021.95	\$ 38,681.21	\$ 40,565.59	\$ 249,587.54	1%	\$ 11,443.27	\$ 249,436.82
16.6	Testing, Commissioning, Startup, and Closeout	\$ 891,753.81	\$ 869,213.14	\$ 911,557.35	\$ 22,540.67	\$ 23,638.75	\$ 935,196.11	0%	\$ 43,442.30	\$ 935,196.11
16.7	As Needed Claims Support	\$ 132,799.70	\$ 132,799.70	\$ 139,269.11	\$ -	\$ -	\$ 139,269.11	0%	\$ 6,469.41	\$ 139,269.11
16.8	Electronic O&M	\$ 72,643.50	\$ 69,090.30	\$ 72,456.07	\$ 3,553.20	\$ 3,726.30	\$ 76,182.37	0%	\$ 3,538.87	\$ 76,182.37
16.9.1	CMMS Requirements Workshop	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
16.9.2	Evaluate CMMS Packages	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
16.9.3	CMMS Database Development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ -	\$ -
16.9.4	CMMS Configuration	\$ 143,669.33	\$ 143,669.33	\$ 150,668.26	\$ -	\$ -	\$ 150,668.26	0%	\$ 6,998.93	\$ 150,668.26
16.0 Subtotal		\$ 8,639,086.45	\$ 7,385,267.14	\$ 7,745,044.64	\$ 1,253,819.31	\$ 1,314,899.84	\$ 9,059,944.47		\$ 308,142.85	\$ 8,947,229.30
Task 19.0 Commitment 147 Early Equipment Procurement										
19.0	Early Equipment Procurement	\$ 150,377.28	\$ 141,977.28	\$ 148,893.78	\$ 8,400.00	\$ 8,809.21	\$ 157,702.99	100%	\$ -	\$ 150,377.28
19.0 Subtotal		\$ 150,377.28	\$ 141,977.28	\$ 148,893.78	\$ 8,400.00	\$ 8,809.21	\$ 157,702.99		\$ -	\$ 150,377.28
Task 20.0 Commitment 148 Mid-60% OPCC										
20.0	Mid-60% OPCC	\$ 95,341.52	\$ 84,159.02	\$ 88,258.87	\$ 11,182.50	\$ 11,727.26	\$ 99,986.14	100%	\$ -	\$ 95,341.52
20.0 Subtotal		\$ 95,341.52	\$ 84,159.02	\$ 88,258.87	\$ 11,182.50	\$ 11,727.26	\$ 99,986.14		\$ -	\$ 95,341.52
Task 21.0 Lump Sum ODCs										
21.0	Lump Sum ODCs	\$ 371,100.56	\$ 354,720.56	\$ 370,682.99	\$ 16,380.00	\$ 17,117.10	\$ 387,800.09	70%	\$ 5,009.86	\$ 376,110.42
21.0 Subtotal		\$ 371,100.56	\$ 354,720.56	\$ 370,682.99	\$ 16,380.00	\$ 17,117.10	\$ 387,800.09		\$ 5,009.86	\$ 376,110.42
Average escalation, labor			4.87%	\$ 19,990,361.32	\$ 20,962,885.18	\$ 7,465,298.82	\$ 28,428,183.99		\$ 340,681.60	\$ 27,170,517.68
Average escalation, ODCs			4.50%							

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6C. Approve Contract No. 2018-014 Amendment #30 to
WTP_1.0 Design Services Contract – *Mike Britch*

WWSS Board Meeting
June 6, 2024

1

CDM Smith Services Overview (from 2018)

- Contract signed in 2018
- Contract end date: February 28, 2026
- Base contract scope:
 - Project management (ongoing)
 - Preliminary and final design (complete)
 - Bid phase support (complete)
 - Engineering services during construction (ongoing)
 - Permitting support (ongoing)
 - Public outreach support (ongoing)

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2

Engineering Services during Construction

- Base scope:
 - Review of contractor submittals (including re-reviews), shop drawings, requests for information (RFIs), and address potential changes
 - Issuance of design clarifications
 - Site observations
 - Participate in testing, commissioning and startup, and closeout

3

Summary of Amendment Elements

Element of Amendment	Amount
1. Permit Modification Support	\$76,480
2. Design Clarifications	\$697,600
3. Submittals	\$1,219,800
4. Requests for Information (RFIs)	\$49,880
5. On-Site Building Mechanical Engineer	\$183,000
6. On-Site Building Electrical Engineer	\$282,000
7. Project Management	\$117,688
Total Amendment 30 (Cost through FY25)	\$2,626,448

4

Breakdown of Costs/Justification

Budget Item	Amount	Comments
1. Permit Modification Support	\$76,480	Additional permitting efforts due to extensive and protracted building permit reviews by AHJ (unexpected level of effort): <ul style="list-style-type: none"> - Sherwood and Wash. Co. project review originally anticipated complete based on Conformed Drawings - Review evolved into on-going process expected through end of construction estimated at approx. \$6k/mo
2. Design Clarifications	\$697,600	Largely due to permitting demands, but also complex contr. questions, acceptance of VE suggestions, and resolution of constr. issues: <ul style="list-style-type: none"> - Increased complexity due to large volume of relatively minor and inconsistent comments from AHJs - Effort changed significantly from original assumptions - Approx. 70% of assumed design clarifications issued - Volume of material greatly exceeded expectations
<i>Subtotal</i>	<i>\$774,080</i>	<i>Items 1 - 2</i>

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Breakdown of Costs/Justification

Budget Item	Amount	Comments
3. Submittals	\$1,219,800	Increased number due to significant overrun on anticipated number of submittals (not budgeted for this amount - increased volume, complexity, rounds of review): <ul style="list-style-type: none"> - Budget approx. 88% expended - Submittals processed at approx. 190% of assumed - Actual cost per sub. approx. 50% of amount assumed
4. Requests for Information (RFIs)	\$49,880	Requested budget anticipates higher volume for remainder of the project than anticipated and inexperience level of contractor staff: <ul style="list-style-type: none"> - Budget approx. 65% expended - RFIs processed at approx. 75% of amount assumed - Estimate approx. two months remaining budget
<i>Subtotal</i>	<i>\$1,269,680</i>	<i>Items 3 - 4</i>

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Breakdown of Costs/Justification

Budget Item	Amount	Comments
5. On-Site Building Mechanical Engineer	\$183,000	Necessary additional (new scope) oversight needed to support high quality construction. Up to nine months support for construction. Supports quality and schedule recovery goals.
6. On-Site Building Electrical Engineer	\$282,000	Necessary additional (new scope) oversight needed to support high quality construction. Up to nine months support for construction. Supports quality and schedule recovery goals.
7. Project Management	\$117,688	Additional effort to added/extended to direct, track, coordinate, and report on above identified activities.
<i>Subtotal</i>	<u>\$582,688</u>	<i>Items 5 - 7</i>
Total for FY25	\$2,626,448	Amendment #30

7

Budget Impact

Initial Contract Value	\$22,986,947
Amendments 1 through 29	\$4,397,630
Current Contract Value	\$27,384,576
Proposed Amendment #30	\$2,626,448
<i>TVWD Estimated Share</i> \$1,624,983	
<i>Hillsboro Estimated Share</i> \$837,049	
<i>Beaverton Estimated Share</i> \$164,416	
Proposed Contract Value	\$30,011,024

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8

QUESTIONS?

9

6C. Requested Board Action

Consider approving Amendment #30 to Contract No. 2018-014, with CDM Smith of up to \$2,626,448, to provide additional Engineering Services During Construction (ESDC) for Fiscal Year 2025.

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Willamette Water Supply System Commission

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STAFF REPORT

To: WWSS Board of Commissioners
From: Dave Kraska, P.E., General Manager
Date: June 6, 2024
Subject: Water Treatment Plant Schedule Recovery Progress Update

Key Concepts:

On-time completion of the Willamette Water Supply System (WWSS) construction is of critical importance to the Partners (TVWD and the cities of Hillsboro and Beaverton), but the Water Treatment Plant (WTP_1.0) project is currently behind schedule. At the June WWSS Commission Board meeting, staff will share a presentation of the following information:

- Summary of the current WTP_1.0 schedule and projected completion date.
- Explanation of on-going efforts to improve the project schedule.

Background:

On-time completion of the Willamette Water Supply System (WWSS) is a primary goal of the Willamette Water Supply Program (WWSP). A detailed review of the WWSP schedule and budget at the end of Fiscal Year 2023 revealed that some projects were performing at a slower spend rate than originally anticipated, but only the Water Treatment Plant project (WTP_1.0) was threatening on-time completion of the WWSP.

This information was shared with both the WWSS Commission Board and the TVWD Board in August 2023, along with a high-level plan for schedule recovery on the WTP_1.0 project. The WWSP team has worked with the WTP_1.0 general contractor (Sundt Construction, Inc.; Sundt) on a schedule recovery plan while simultaneously continuing to manage the expanding activities on the WTP_1.0 project site.

In March, Sundt delivered to the WWSP team a draft re-baseline project schedule. It was prepared over several months by a specialty scheduling subcontractor working closely with Sundt and its subcontractors. The first version of the new schedule suggested the WTP_1.0 project may be completed as much as 11.5 months late. Since then, the WWSP team has continued to work with Sundt on a schedule recovery plan. The schedule update submitted by Sundt in April now shows that some of the delay has been mitigated reducing the late completion from 11.5 months to about six months.

At the June WWSS Commission Board meeting, staff will share a brief presentation on the current project schedule status and the alternatives being evaluated to further recover the schedule.

Budget Impact:

Informational item only. There are no budget impacts from this staff report. All items discussed in this report are included in WWSP Baseline 9.1 budget.

Staff Contact Information:

David Kraska, P.E.; General Manager; 503-941-4561; david.kraska@tvwd.org

Attachments:

None

Willamette Water Supply System Commission

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Willamette Water Supply

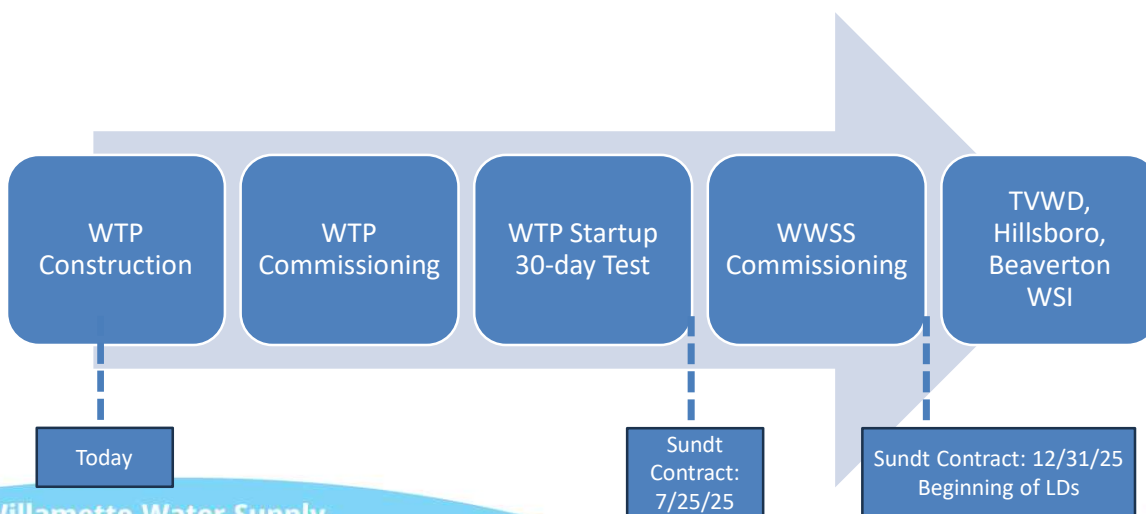
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7A. Water Treatment Plant Schedule Recovery Progress Update – *Dave Kraska*

WWSS Board Meeting
June 6, 2024

1

Simplified WTP and WWSS Completion Process



2

2

Summary of the Current (April) Schedule

- Completion of WTP 30-day test is about 6 months behind schedule
 - Current completion date: January 26, 2026
 - New electrical equipment delivery delays have been partially mitigated
 - Overtime and acceleration is not yet accounted for
 - Testing and startup plan is still being refined
- Mitigation options being considered to recover schedule
 - Working Saturdays is expected to bring schedule back to November 2025
 - Double shifts for certain trades in structures on critical path
 - Shorter WWSS Commissioning period could allow for later finish

3

Next Steps

- De-scope CSU work from Sundt contract
- Sundt to complete WTP testing and startup plan
- Continue evaluating additional schedule mitigation options
- Develop framework for managing future schedule changes
- Establish KPIs and intermediate milestones
- Negotiate schedule impacts to date and contingency use

4



5

Willamette Water Supply System Commission

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STAFF REPORT

To: WWSS Board of Commissioners
From: Dave Kraska, P.E., General Manager
Date: June 6, 2024
Subject: Completed Construction Projects Cost Performance

Key Concepts:

To date, nine Willamette Water Supply Program (WWSP) projects have completed construction. WWSP staff analyzed the construction commitments, contingencies, final construction costs, and change order rates resulting in the following findings:

- The change order rate of the completed projects ranges from -7.2 percent to +15.5 percent.
- The average change order rate of the completed projects is 0.7 percent.
- In aggregate, the completed projects finished below the total construction contract plus contingency value by a total of \$8.7M.

For reference, a typical or well-performing project might finish with a change order rate of five percent.

A similar analysis was performed for current construction projects that are more than 90 percent complete. On average, those six projects are trending at a one percent change order rate, which is consistent performance with the completed projects.

Background:

At the February 1, 2024, Willamette Water Supply System (WWSS) Commission Board meeting, Commissioners requested a summary of completed construction projects and their financial and change order performance. This report is intended to meet that request.

To date, nine construction projects have completed. Seven are pipeline projects: PLM_1.1, PLM_1.2, PLM_2.0, PLM_3.0, PLM_5.1, PLM_5.2, and PLW_1.1. Also completed are the first two phases of the RWF_1.0 project (Phases 1 and 1.5).

To evaluate change order performance on these projects, we compared the original construction budget to the final construction value. For non-partner projects, the final construction value is the sum of all payments to the contractor. Partner projects also include shared costs with our project partner (e.g. Washington County) as negotiated in project intergovernmental agreements for items such as erosion and sediment control, and traffic control.

A five percent change order rate is typically regarded as acceptable for infrastructure construction projects. As a point of reference, a 2022 study conducted by AIA Contract Documents found that average change order costs range from four to five percent with an upper boundary of 15 percent for the 18,229 projects included in the study.

The following table shows the results of the analysis conducted in response to the Commissioners' request. It reveals that most projects have completed with a negative change order rate. One project, PLM_1.1, completed with a change order rate of 15.6 percent, which is at the high end of industry standards. This was an unusual

situation where the number of boulders encountered during construction of that project was significantly higher than anticipated in the construction documents, which was a changed site condition. Therefore, the contractor was due a change order for the additional work. Though the change order rate on this project was an outlier, it was also one of our smaller projects meaning that the impact of this high change order rate was minimal in terms of our overall financial performance on the WWSP.

Table 1. Completed WWSP Projects Change Order Rate

Project	Original Budget	Final Construction Value	Construction (savings) or overrun	Change Order Rate
RWF_1.0 Phase 1	\$52,164,492	\$48,590,857	(\$3,573,635)	-0.9%
RWF_1.0 Phase 1.5	\$2,899,308	\$2,808,929	(\$90,379)	0.0%
PLM_1.1	\$2,884,393	\$3,019,341	\$134,948	15.6%
PLM_1.2	\$8,174,241*	\$7,417,150	(\$757,092)	-7.2%
PLM_2.0	\$4,684,734*	\$4,028,428	(\$656,306)	-1.0%
PLM_3.0	\$11,635,665*	\$11,339,647	(\$296,019)	-0.3%
PLM_5.1	\$18,410,708*	\$17,146,641	(\$1,264,067)	-3.4%
PLM_5.2	\$16,553,987	\$14,813,367	(\$1,740,620)	-0.8%
PLW_1.1	\$6,518,484	\$6,109,651	(\$408,833)	4.2%
			(\$8,652,003)	

At the time of this report, there are six WWSP projects that are at least 90 percent complete with construction. We reviewed the change order rate on those projects and found that the average rate is tracking at approximately one percent, which is in line with the completed projects. This result suggests that the consistent approach to managing the design and construction activities at the WWSP is successfully controlling costs.

In summary, change order rates of completed WWSP projects and those nearing completion have been well below industry standards. This performance suggests that the practices implemented at the WWSP for managing design and construction activities are controlling costs well, and that there should be adequate funds carried in our contingencies to cover remaining construction costs. However, there remains more than \$406M of construction left to be completed as of April 2024, and much of that is related to the water treatment plant project, which is the most complex WWSP construction project. Accordingly, the WWSP continues to recommend holding project contingencies and Management Reserve as approved in WWSP Baseline 9.1. Unused project contingencies will be transferred to Management Reserve, maintaining the consistent WWSP value of \$1.6B.

Budget Impact:

Informational item only. There are no budget impacts from this staff report. All items discussed in this report are included in WWSP Baseline 9.1 budget.

Staff Contact Information:

David Kraska, P.E.; General Manager; 503-941-4561; david.kraska@tvwd.org

Attachments:

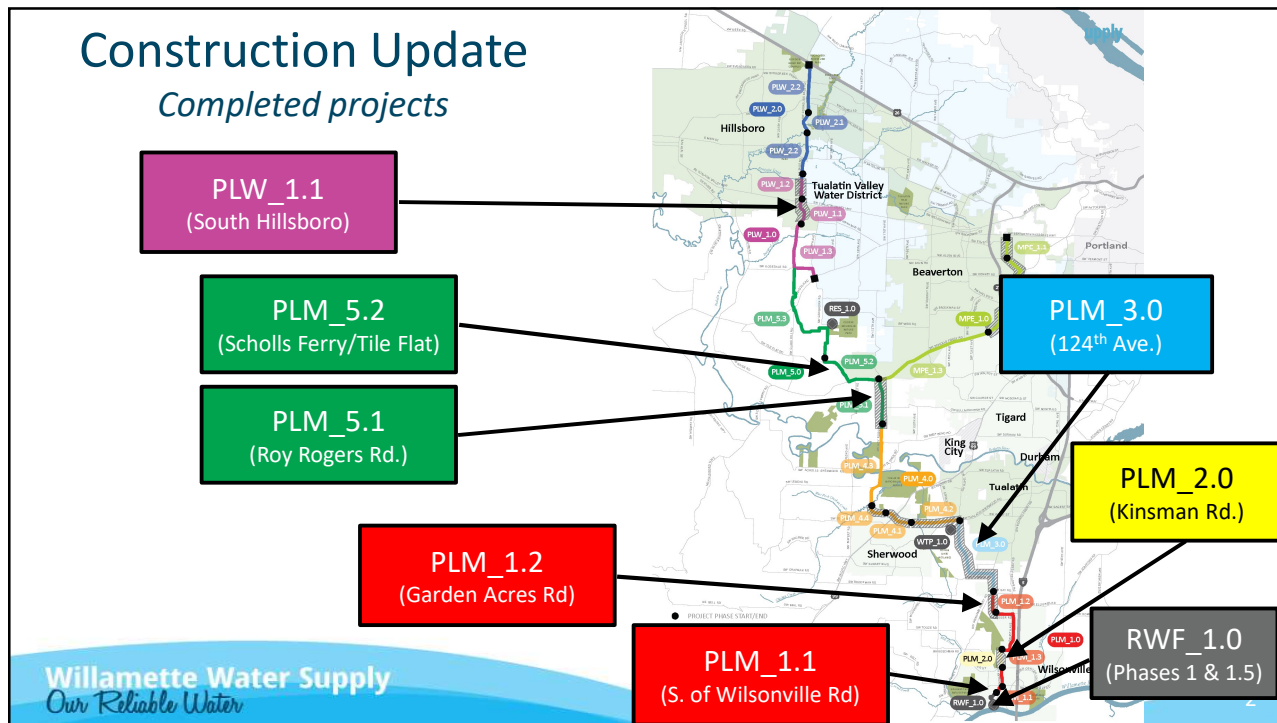
None

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7B. Completed Construction Project Cost Performance – *David Kraska*

WWSS Board Meeting
June 6, 2024

1



2

Defined Terms

- **Original Budget**
 - Sum of contractor bids and project contingency
 - Typical project contingency ranged from 10% - 12% at the start of construction
- **Final Construction Value**
 - Sum of all payments made to the contractor
- **Change Order Rate**
 - Percent increase or (decrease) from contractor bid to Final Construction Value
- **Construction (Savings) or Overrun**
 - Original Budget minus the Final Construction Value

3

Completed Projects – Construction Phase Financial Performance

Project	Original Budget	Final Construction Value	Construction (savings) or overrun	Change Order Rate
RWF_1.0 Phase 1	\$52,164,492	\$48,590,857	(\$3,573,635)	-0.9%
RWF_1.0 Phase 1.5	\$2,899,308	\$2,808,929	(\$90,379)	0.0%
PLM_1.1	\$2,884,393	\$3,019,341	\$134,948	15.6%
PLM_1.2	\$8,174,241*	\$7,417,150	(\$757,092)	-7.2%
PLM_2.0	\$4,684,734*	\$4,028,428	(\$656,306)	-1.0%
PLM_3.0	\$11,635,665*	\$11,339,647	(\$296,019)	-0.3%
PLM_5.1	\$18,410,708*	\$17,146,641	(\$1,264,067)	-3.4%
PLM_5.2	\$16,553,987	\$14,813,367	(\$1,740,620)	-0.8%
PLW_1.1	\$6,518,484	\$6,109,651	(\$408,833)	4.2%

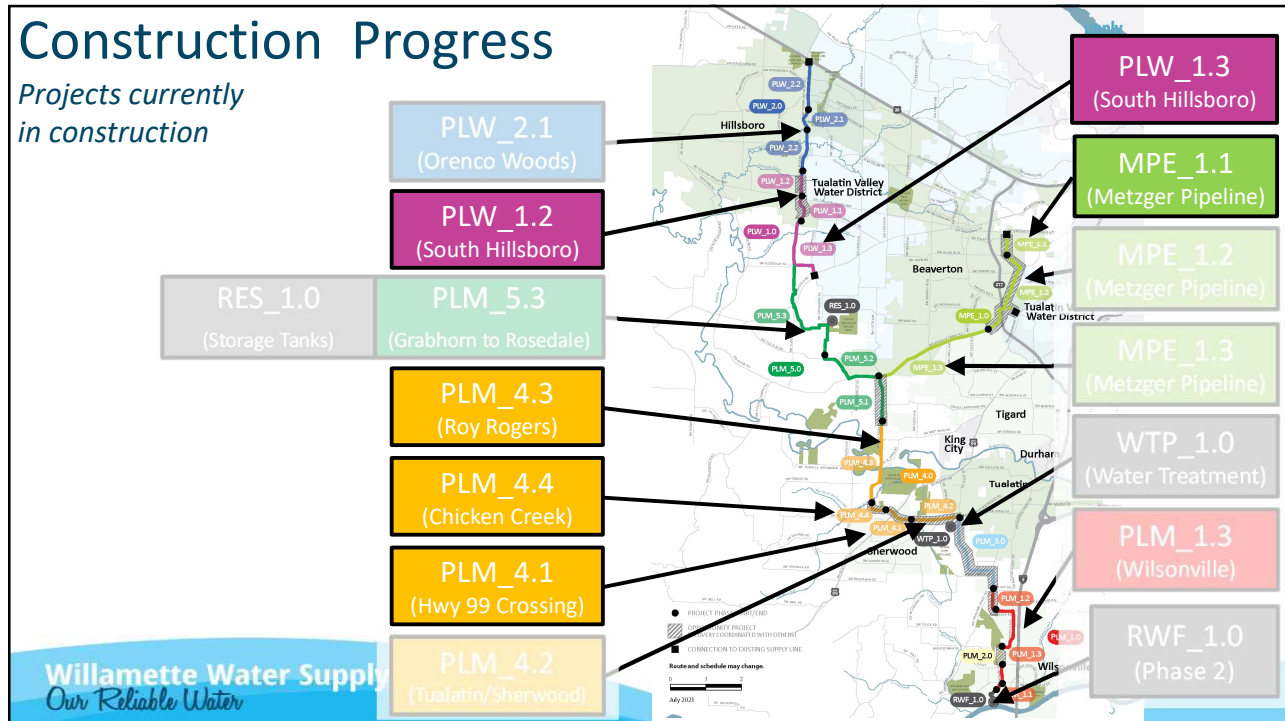
(\$8,652,003)

*Partner project, excludes administrative and IGA costs

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Construction Progress

Projects currently in construction



5

Projects Near Completion – Construction Phase Financial Performance

Project	Original Budget	Construction Percent Complete	Current Change Order Rate	Construction (savings) or overrun
PLM_4.1	\$14,684,446*	93%	1%	TBD
PLM_4.3	\$52,352,716	91%	0%	TBD
PLM_4.4	\$10,179,985*	90%	1%	TBD
PLW_1.2	\$12,281,464*	97%	0%	TBD
PLW_1.3	\$31,888,054	99%	0%	TBD
MPE_1.1	\$13,119,544*	97%	4%	TBD

*Partner project, excludes administrative and IGA costs

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Summary

- Completed projects have finished below budget by >\$8M
 - Completed projects are 11% of total program construction value
- Current projects that are more than 90 percent complete are on track to complete ~\$10M - \$12M below budget
 - These projects represent 12% of the total program construction value
- Significant challenge remains
 - >\$400M in work left to be completed
 - Most of that work is related to WTP_1.0

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QUESTIONS?

8

Willamette Water Supply System Commission

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Willamette Water Supply System Commission
Board Meeting Agenda Packet

June 6, 2024
