

# MEMORANDUM



TO: City Council  
FROM: Greg Springman, Public Works Director  
Preston Van Meter, West Yost  
DATE: September 13, 2022  
SUBJECT: Mahler WRF Project Update

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Public Works staff and our engineering consultant West Yost would like to keep City Council updated on the Mahler WRF Upgrades Project. This update will be provided on a monthly basis and contains the following sections:

- Section 1. Project Overview and Current Status
- Section 2. Project Schedule Update
- Section 3. Project Budget Status Update
- Section 4. Updates on Key Issues

## 1. PROJECT OVERVIEW AND CURRENT STATUS

Due to project funding requirements, the Mahler WRF Project has been divided into 2 project phases:

- **Phase 1** includes construction of the new influent pump station (IPS), which is where all water from the City's sewer collection system enters the treatment plant.
  - **Estimated Const. Cost:** The Phase 1 estimated construction cost is \$9 Million. Approximately \$2 Million of Phase 1 equipment and special services will be supplied by TAG, the City's Integrator-of-Record.
  - **Current Status:** Phase 1 design is complete with bids due September 22, 2022.
- **Phase 2** will include the majority of other treatment plant upgrades and has an estimated budget of \$30M-\$40M.
  - **Estimated Const. Cost:** The Phase 2 estimated construction cost is approximately \$40 Million.
  - **Current Status:** Phase 2 is currently being designed by West Yost.
- Future or additional phases for the Mahler WRF upgrades may include:
  - **South Santiam River Outfall Replacement:** The City's current outfall to the South Santiam River is undersized and located in a portion of the river where it is being buried by rocks. The City is working with DEQ and other regulatory agencies on the best approach for addressing long-term river discharge. If replacement is required, the City's goal is to include this work in Phase 2 upgrades.
  - **Offsite Class A Biosolids Composting Facility:** The City has considered partnering with Albany and Lebanon to construction an offsite biosolids processing facility that would provide better opportunities for reusing the biosolids produced by the Mahler WRF.

## 2. PROJECT SCHEDULE UPDATE & CITY COUNCIL ENGAGEMENT

Below is a project schedule summarizing the currently anticipated schedule for Phases 1 and 2 of the Mahler WRF Improvements Project on a quarterly basis through the anticipated completion of construction in mid-2025.

	2022			2023				2024				2025	
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
WRF Phase 1													
WRF Phase 2													
Planning & Design			Bidding & Contracts				Construction						

Upcoming Project activities and City Council actions include:

**Phase 1 Bid Opening:** Pre-qualified Contractors will submit bids for Phase 1 construction on September 22, 2022 at 2:00 PM. Bids will be received and opened at the Public Works office.

**3<sup>rd</sup> Party Special Inspections and Testing Services (RCA):** On 9/13, Public Works will accept proposals from firms to provide 3<sup>rd</sup> Party Special Inspections and Testing Services on Phases 1 and 2 of the Project. A Recommendation of Award to the lowest responsive and responsible bidder will be submitted to City Council for consideration on 9/27.

**Electronic Construction Document Control System (RCA):** On 9/15, Public Works will accept proposals from firms to an Electronic Construction Document Control System (ECDCS) for Project Phases 1 and 2. A Recommendation of Award based on proposal scoring criteria and weightings will be submitted to City Council for consideration on 9/27.

**Phase 1 Owner-Supplied Equipment (RCA):** On 9/27, Public Works will submit an Equipment Sole Source Memo for procurement of specialized electrical equipment along with draft equipment procurement contracts for Phase 1 Owner-Supplied equipment to be provided by TAG, the City's Integrator-of-Record.

**Phase 1 Construction Recommendation of Award (RCA):** On 10/11, Public Works will submit a Recommendation of Award for Mahler WRF Phase 1 Improvements to the lowest pre-qualified, responsive and responsible bidder.

**Mahler WRF Groundbreaking Ceremony:** City Council will be invited to participate in the ground breaking ceremony for the Mahler WRF Improvements project in early November.

### 3. PROJECT BUDGET STATUS UPDATE

The following budget status updates provides a high-level review of contract amounts and expenditures for engineering services, Owner-supplied electrical equipment, Construction, 3<sup>rd</sup> Party Special Inspections and Testing and the Electronic Construction Document Control System.

#### a. Construction

Budget status updates will be provided after the Phase 1 Contractor is selected and construction begins in Q4 2022.

#### b. Owner-Supplied Electrical Equipment

Budget status updates related to owner-supplied electrical equipment to be provided by TAG serving as the City's Integrator-of-Record will be provided following approval of TAG contracts.

#### c. 3<sup>rd</sup> Party Special Inspections and Testing Services

Budget status updates for 3<sup>rd</sup> Party Special Inspections and testing will be provided once Phase 1 construction begins.

#### d. Electronic Construction Document Control System (ECDCS)

Budget status updates for ECDCS will be provided once Phase 1 construction begins.

#### e. Engineering Services

Firm	Dates	Purpose	Contract Amount	% Complete
Murraysmith <sup>(1)</sup>	2018 – 2021	Preliminary and Final Design	\$2,134,373	100%
West Yost	Jul 2021	Final Design Review	\$66,224	100%
West Yost <sup>(2)</sup>	Aug 2021 – present	Project Planning. Permitting, Preliminary and Final Design	\$3,428,335	61%
West Yost <sup>(3)</sup>	Oct 2022 thru 2025	Engineering Services During Construction (ESDC)	\$879,670	0%

(1) Contract Amount listed is actual amount paid to Murraysmith by City.

(2) West Yost's current Mahler WRF design contract is for completion of Phase 1 final design and carrying Phase 2 design to 60% completion. Phase 2 final design will be contracted in Q2 2023.

(3) West Yost's current Mahler WRF construction services contract is for Phase 1 only. Phase 2 construction services is anticipated to be contracted in Q2 2023.

#### 4. UPDATES ON KEY ISSUES

- **WRF Groundbreaking.** The City anticipates organizing a Groundbreaking Ceremony with key City officials and invited guests in early November. More details to come!
- **Phase 1 Construction Partnering Meetings.** As Phase 1 construction begins, a Partnering Committee consisting of representatives from the City, Contractor and Engineer will be formed to work together to address issues that come up during construction. This partnering process is intended to maintain a strong working relationship of the full construction team throughout construction.
- **Current WRF Permit Compliance Issues.** Recently the WRF has been experiencing regular compliance issues due to unauthorized discharges to the City's sewer collection system that are impacting the biological treatment process. Staff are working to identify the source of these illegal discharges.
- **Preliminary Engineering Report (PER) Update.** Concurrent with Phase 2 design, West Yost's team is also working on updating the Preliminary Engineering Report (PER) required for obtaining USDA funding for the project. The PER will be submitted to USDA and Oregon DEQ for review and approval. The updated project cost estimated included in the PER will be used to secure funding for the project.
- **Outfall Permitting and "Crosscutters".** A key issue that has come up in consultation with regulatory agencies is the plan for increasing the capacity of the WRF outfall pipeline to the South Santiam River. The original plan to install and "overflow" to the river may present permitting challenges. The City is currently considering options, but the best long-term solution may be to replace the outfall pipeline in the river. This would allow the outfall to be relocated to a deeper section of the river where it will have improved mixing and additional capacity.