



**FALLBROOK PUBLIC UTILITY DISTRICT  
MEETING OF THE ENGINEERING & OPERATIONS COMMITTEE**

**AGENDA**

**MONDAY, OCTOBER 18, 2021  
9:00 A.M.**

**FALLBROOK PUBLIC UTILITY DISTRICT  
990 E. MISSION RD., FALLBROOK, CA 92028  
PHONE: (760) 728-1125**

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**PURSUANT TO THE STATE OF EMERGENCY DECLARED BY GOVERNOR NEWSOM AND IN ORDER TO PROMOTE SOCIAL DISTANCING DURING THE EVOLVING COVID-19 PANDEMIC, THIS MEETING WILL BE CONDUCTED VIA WEB AND TELECONFERENCE PURSUANT TO GOVERNMENT CODE SECTION 54953(E)(1)(a), WHICH WAIVES CERTAIN TELECONFERENCING REQUIREMENTS IN CERTAIN CIRCUMSTANCES, USING THE BELOW INFORMATION. HOWEVER, MEMBERS OF THE PUBLIC MAY ALSO PARTICIPATE IN THIS MEETING BY ATTENDING IN PERSON AT THE DISTRICT OFFICE LOCATED AT 990 E. MISSION RD., FALLBROOK, CA 92028. MEMBERS OF THE PUBLIC WHO DO NOT WISH TO ATTEND IN PERSON ARE ENCOURAGED TO PARTICIPATE IN THE COMMITTEE MEETING VIA WEB CONFERENCE USING THE BELOW CALL-IN AND WEBLINK INFORMATION**

**Join Zoom Meeting**

<https://us06web.zoom.us/j/87533743054?pwd=bUE3V2xzalcrbmJDZW1sQTVBbE9DUT09>

**MEETING ID: 875 3374 3054**

**AUDIO PASSCODE: 606513**

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**PUBLIC COMMENTS:** Members of the public may submit public comments and comments on agenda items in one of the following ways:

**SUBMIT COMMENTS BEFORE THE MEETING:**

- By emailing to our Acting Board Secretary at [mavisc@fpud.com](mailto:mavisc@fpud.com)
- By mailing to the District Offices at 990 E. Mission Rd., Fallbrook, CA 92028
- By depositing them in the District's Payment Drop Box located at 990 E. Mission Rd., Fallbrook, CA 92028

All comments submitted before the meeting by whatever means must be received at least 1 hour in advance of the meeting. All comments will be read to the Board during the appropriate portion of the meeting. Please keep any written comments to 3 minutes.

**REMOTELY MAKE COMMENTS DURING THE MEETING:** The Board President will inquire prior to Board discussion if there are any comments from the public on each item.

- Via Zoom Webinar go to the "Participants List," hover over your name and click on "raise hand." This will notify the moderator that you wish to speak during oral communication or during a specific item on the agenda.
- Via phone, you can raise your hand by pressing \*9 to notify the moderator that you wish to speak during the current item.

**MAKE IN-PERSON COMMENTS DURING THE MEETING:** The Board President will inquire prior to Board discussion if there are any comments from the public on each item, at which time members of the public attending in person may make comments.

**THESE PUBLIC COMMENT PROCEDURES SUPERSEDE THE DISTRICT'S STANDARD PUBLIC COMMENT POLICIES AND PROCEDURES TO THE CONTRARY.**

*If you have a disability and need an accommodation to participate in the meeting, please call the Board Secretary at (760) 999-2704 for assistance.*

**I. PRELIMINARY FUNCTIONS**

CALL TO ORDER / ROLL CALL

PUBLIC COMMENT

**II. ACTION / DISCUSSION----- (ITEMS A-C)**

- A. WATER SUPPLY RELIABILITY PROJECT UPDATE AND EQUIPMENT PROCUREMENT (JOB 3117)
- B. AWARD OF RECYCLED AIRVAC & DRAIN REPLACEMENT PROJECT (JOB 3150)
- C. REVIEW OF WATER DEMAND TRENDS

**III. ADJOURNMENT OF MEETING**

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**DECLARATION OF POSTING**

I, Lauren Eckert, Executive Assistant/Board Secretary of the Fallbrook Public Utility District, do hereby declare that I posted a copy of the foregoing agenda in the glass case at the entrance of the District Office located at 990 East Mission Road, Fallbrook, California, at least 72 hours prior to the meeting in accordance with Government Code § 54954.2.

I, Lauren Eckert, further declare under penalty of perjury and under the laws of the State of California that the foregoing is true and correct.

October 14, 2021  
Dated / Fallbrook, CA

/s/ Lauren Eckert  
Executive Assistant/Board Secretary

**M E M O**

**TO:** Engineering & Operations Committee  
**FROM:** Aaron Cook, Engineering Manager  
**DATE:** October 18, 2021  
**SUBJECT:** Water Supply Reliability Project Update and Equipment Procurement  
(Job 3117)

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Description

Update on the Water Supply Reliability Project and request for Board approval to award the procurement of treatment equipment.

Purpose

Due to challenges identifying potential new users for recycled water within cost effective expansion areas, as well as the pending completion of the SMRCUP facilities, an effort to explore the potential for water reuse and ground water augmentation was initiated in FY 2019-20. The concept is to further treat effluent from both Fallbrook and Camp Pendleton's reclamation plants that is currently discharged to the ocean, and instead discharge the treated water to the Lower Santa Margarita River Aquifer, where it could be recovered by the new SMRCUP facilities. The project establishes the design parameters of a future full scale project, including additional treatment required, regulatory compliance, construction and operating costs, and overall financial feasibility.

Close to half of the project costs are funded by an Integrated Regional Water Management (IRWM) Grant that was applied for in early 2019. The grant was tentatively awarded by the CA Department of Water Resources in January of 2020 but the grant agreement was not finalized until June of 2021.

During that time, work was initiated developing a detailed project proposal and coordinating with regulatory agencies, a revised project concept based on regulatory feedback, and a pilot system design and work plan. One of the principal changes to the project plan based on regulator feedback was to focus the piloting effort at the Camp Pendleton site only. Shortly after finalizing the grant agreement, a request for proposal to supply leased treatment equipment was issued and proposals were received on August 26, 2021. Two proposals were received from water treatment equipment companies Xylem and Intuitech. The Xylem proposal did not include all treatment processes requested. Intuitech's proposal was comprehensive and at a cost of \$370,450 is within the planned project budget amount. The company specializes in pilot treatment systems and provides onsite commissioning and training services. The equipment will be assembled and operated by FPUD staff for the duration of the lease. Direct costs to the District include treatment chemicals, sampling analysis, and labor, which are estimated at a total cost of \$190,000. The pilot system would be installed and commissioned in late February, and operated for a period of four months, with an

anticipated completion in early July. Following the pilot test, a final report will be produced with conceptual design for a full scale project and a financial feasibility analysis.

#### Budgetary Impact

There is no budgetary impact. The project costs are included in the approved capital budget. The total project budget is \$1,487,500. The IRWM Grant mentioned above covers \$687,500. As a potential beneficiary of the project, Rainbow Municipal Water District has committed to contribute \$100,000 to the project. The remaining \$700,000 has been included in the capital budget, initially intended to be expended over the previous two fiscal years. However, due to the prolonged grant approval process, the project has moved at a slower pace than anticipated and the District's share of the cost will extend into the current fiscal year before the grant funds become available. Overall, the project is expected to be completed well under budget, primarily due to piloting at only one location.

#### Recommended Action

That the Committee recommend to the Board authorization of a services agreement with Intuitech for an amount not to exceed \$370,450 for the lease of pilot treatment equipment.

**M E M O**

**TO:** Engineering & Operations Committee  
**FROM:** Aaron Cook, Engineering Manager  
**DATE:** October 18, 2021  
**SUBJECT:** Award of Recycled Airvac & Drain Replacement Project (Job 3150)

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Description

Request for Board approval to award the Recycled Airvac & Drain Replacement Project to the lowest responsive bidder.

Purpose

As part of the District's capital improvement program, routine recycled system improvements and replacement projects are required to maintain the system in proper working order. The existing air/vacuum valves and mainline drains on Olive Hill Road were selected as a priority due to aging of the valves beyond their useful life and their location in buried vaults that are difficult to access. District staff prepared the design package for the project and solicited for general contractor construction bids. The project consists of the removal and replacement of three air/vacuum valve assemblies and two drain assemblies, as well as the removal of existing buried vaults. The new appurtenances will be installed to current standards, enabling easier access and maintenance. Bid opening was October 6, 2021. Six bids were received. A summary of the bid results is below:

<b>Company Name</b>	<b>Bid Amount</b>
CHI Construction	\$112,000
Gentry General Construction	\$188,776
Atom Construction	\$298,398
Kay Construction	\$341,215
Genesis Construction	\$405,444
TK Construction	\$483,000

CHI Construction was the apparent lowest responsible bidder at \$112,000. CHI has not performed work for the District in the past, but has been in business for 18 years and has successfully completed projects of a similar nature.

### Budgetary Impact

\$100,000 of the approved capital budget for FY2021/22 was intended for mainline rehabilitation projects on the recycled system. The low bid exceeds this value. Additionally, there will be some internal administration and construction management costs. If awarded to the low bidder, the final project costs will likely be between \$120,000 and \$125,000. Because other recycled system capital jobs have been tracking under budget, staff anticipate the capital expenditures for recycled projects to be within the planned budget allowing for award of this project without budgetary impacts.

### Recommended Action

That the Committee recommend to the Board authorization of the Recycled Airvac & Drain Replacement Project to the lowest responsible bidder, CHI Construction.