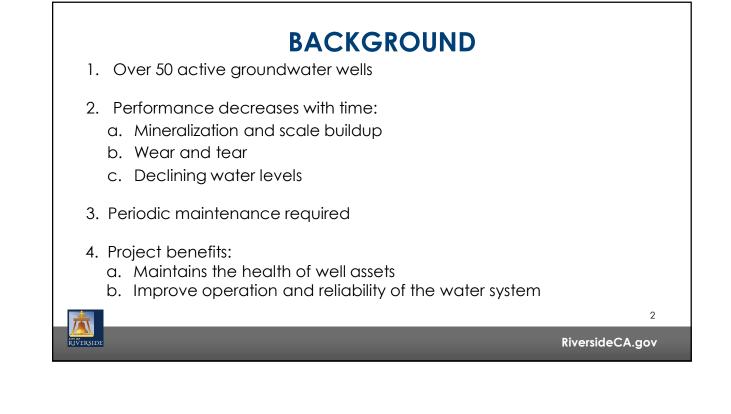
1

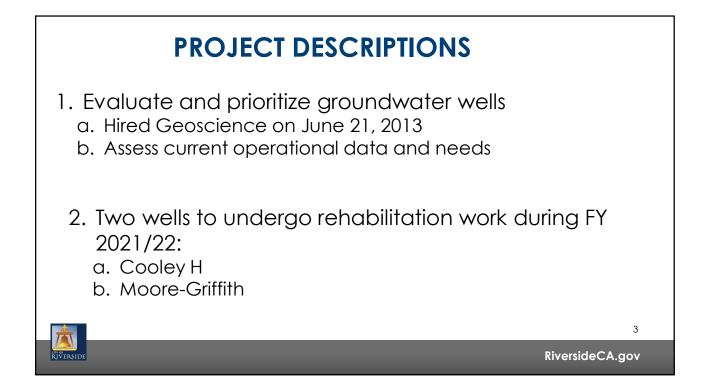


# FY2021/22 GROUNDWATER WELL REHABILITATION PROJECT

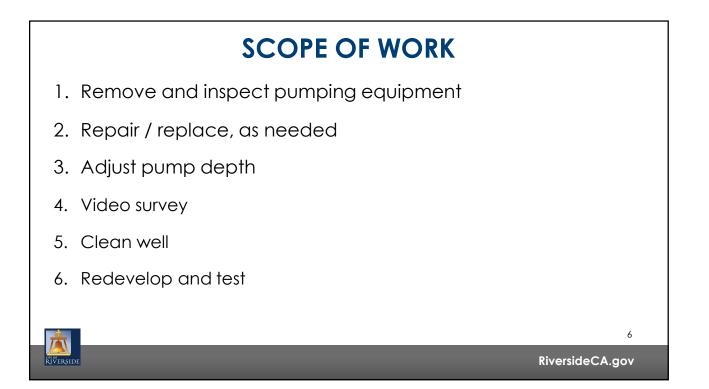
#### **Riverside Public Utilities**

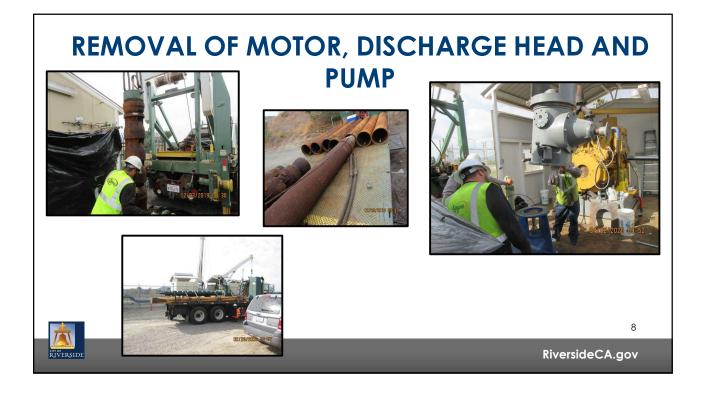
Board of Public Utilities December 13, 2021











#### MECHANICAL CLEANING – BRUSHING AND BAILING

- 1. The inside of the well screen is mechanically cleaned by raising and dropping a tight-fitting brush tool.
- 2. Debris is removed from the bottom of the well.

Kiversic

RIVERSIDE





RiversideCA.gov

### **CLEANING ADDITIVES**

Special additives are mixed into the well to assist in descaling the well screen and demineralizing the well formation.



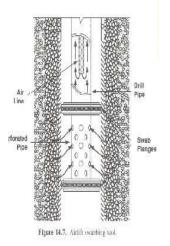
10

4

### MECHANICAL CLEANING – DUAL SWAB AND SIMULTANEOUS AIRLIFT

- The well is mechanically swabbed by raising and dropping the drill pipe equipped with a tight-fitting dual swab on the bottom.
- 2. During swabbing, water is airlifted from the well.

RIVERSIDE





RiversideCA.gov



5

### **BID RESULTS**

1. The project was advertised on September 10, 2021

2. A pre-bid conference was held on September 22, 2021

3. Bids were opened on October 6, 2021

4. Three bids were received

RIVERSIDE

Rank	Vendors	City Location	Bid Total	
1.	Weber Water Resources CA, LLC	Riverside, CA	\$606,195.42	
2.	Best Drilling and Pump, Inc.	Colton, CA	\$632,220.00	
3.	Layne Christensen Company	Redlands, CA	\$1,047,987.00	

Engineer's Construction Cost Estimate: \$565,000

13

RiversideCA.gov

Project and Fiscal Breakdown		W.O. No. 2119272 (Cooley H)	W.O. No. 2205199 (Moore- Griffith)	Total Project
Work Type:	Performed By:	Amount:	Amount:	Amount:
Planning and Design	Internal Staff	\$7,495.44	\$5,062.56	\$12,558
Construction	Best Drilling and Pump, Inc.	\$328,160	\$304,060	\$632,220
Construction Support	Internal Staff	\$10,000	\$10,000	\$20,000
Engineering Support, Construction Management and Inspection	Internal Staff	\$35,000	\$35,000	\$70,000
Hydrogeologist Services	Informal Procurement, Vendor to be Determined	\$10,000	\$10,000	\$20,000
Construction Contingencies	N/A	\$32,816	\$30,406	\$63,222
Work Order Total:				\$818,000
Reimbursements:				N

6

### **STRATEGIC PLAN ALIGNMENT**

This item contributes to Strategic Priority No. 6 Infrastructure, Mobility and Connectivity and Goal No. 6.2 – Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

This item aligns with each of the five Cross-Cutting Threads as follows:

- 1. Community Trust RPU took the initiative to rehabilitate these groundwater wells which will enhance the reliability of the overall water system, demonstrating RPU's commitment to the customers it serves and building community trust.
- 2. Equity RPU endeavors to provide safe and reliable water service to all its customers. Since RPU's water system is an interconnected network, investments made to individual parts of the system improve the reliability of the overall system, thereby providing an equitable benefit to all customers.
- 3. Fiscal Responsibility The lowest price for these construction services was ensured through a competitive bidding process.
- 4. Innovation This project employs the latest technology and methods for rehabilitating groundwater wells, helping to ensure effective operation of these groundwater wells.
- 5. Sustainability & Resiliency This project will help ensure RPU can provide reliable water service to its customers.

### RECOMMENDATIONS

That the Board of Public Utilities:

- 1. Reject as non-responsive the bid submitted by Weber Water Resources CA, LLC of Riverside, California in the amount of \$606,195.42;
- Award a contract for the construction of the FY2021/22 Groundwater Well Rehabilitation Project – Bid No. RPU-7858 to the lowest responsive and responsible bidder, Best Drilling and Pump, Inc. of Colton, California, in the amount of \$632,220.00;
- 3. Approve the capital expenditure for Work Order No. 2119272 in the amount of \$423,471.44 which includes all design, construction, construction support, contract administration, inspection and construction change order authority costs for the rehabilitation of the Cooley H Well;

16

7

## **RECOMMENDATIONS (CONT.)**

- 4. Approve the capital expenditure for Work Order No. 2205199 in the amount of \$394,528.56 which includes all design, construction, construction support, contract administration, inspection and construction change order authority costs for the rehabilitation of the Moore-Griffith Well; and
- 5. Authorize a budget transfer of \$200,000 from the Public Utilities' Transmission Main Account No. 6230100-470735 to Public Utilities' Facility Rehabilitation Account No. 6230100-470803; and
- 6. Authorize the City Manager, or designee, to execute construction agreements and any other documents necessary to effectuate the project described herein, as well as the ability to make minor non-substantive changes including changes to each of the work order amounts but not-to-exceed the cumulative total of \$818,000 and in accordance with all purchasing policies.



17