

FY2025/26 GROUNDWATER WELL REHABILITATION PROJECT

Riverside Public Utilities

Board of Public Utilities

December 8, 2025

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BACKGROUND

1. 45 active groundwater wells
2. Performance decreases with time:
 - a. Mineralization and scale buildup
 - b. Wear and tear
 - c. Declining water levels
3. Periodic maintenance required
4. Project benefits:
 - a. Maintains the health of well assets
 - b. Improve operation and reliability of the water system



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DISCUSSION

1. Evaluate and prioritize groundwater wells
 - a. Hired Geoscience on June 21, 2013
 - b. Assess current operational data and needs
2. Two wells to undergo rehabilitation work during FY2025/26:
 - a. Garner C
 - b. Tippecanoe



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PROJECT LOCATION MAP



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REMOVAL OF MOTOR, DISCHARGE HEAD AND PUMP



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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.



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CLEANING ADDITIVES

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



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MECHANICAL CLEANING – DUAL SWAB AND SIMULTANEOUS AIRLIFT

1. 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.

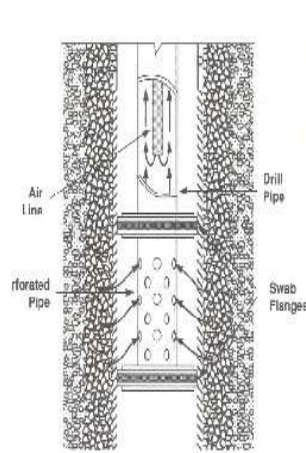


Figure 14.7. Airlift swabbing well.



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PUMP TESTING THE WELL AFTER WELL CLEANING



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BID RESULTS

1. The project was advertised on September 23, 2025
2. Bids were opened on October 15, 2025
3. Four bids were received



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BID RESULTS (CONT.)

Rank	Vendor	City Location	Bid Total
1.	Best Drilling and Pump, Inc.	Colton, California	\$1,690,277.00
2.	Weber Water Resources CA LLC	Jurupa Valley, California	\$1,732,004.30
3.	General Pump Company	San Dimas, California	\$1,805,580.00
4.	Layne Christensen Company	Redlands, California	\$2,900,880.20

Engineer's Estimate: \$1,604,000

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PROJECT AND FISCAL BREAKDOWN

Work Type:	Performed By:	W.O. No. 2522339 (Garner C):	W.O. No. 2522340 (Tippecanoe):	Total Project:	Percent of Total:
Design	Internal Staff	\$34,188.50	\$35,506.80	\$69,695.30	3.3%
Construction	Best Drilling and Pump, Inc.	\$783,465.00	\$906,812.00	\$1,690,277.00	79.2%
Construction Support	Internal Staff	\$15,000.00	\$15,000.00	\$30,000.00	1.4%
Engineering Support, Construction Management, and Inspection	Internal Staff	\$70,000.00	\$80,000.00	\$150,000.00	7.0%
Hydrogeologist Services	Outside Vendor, Informal Procurement	\$10,000.00	\$15,000.00	\$25,000.00	1.2%
Construction Contingencies	N/A	\$78,346.50	\$90,681.20	\$169,027.70	7.9%
Work Order Total:		\$991,000.00	\$1,143,000.00	\$2,134,000.00	100.0%
Reimbursements:	None				
Anticipated Start Date:	January 2026				
Anticipated Duration:	12 Months				



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RECOMMENDATIONS

That the Board of Public Utilities:

1. Award a contract for the construction of the FY2025/26 Groundwater Well Rehabilitation Project – Bid No. RPU-8212 to the lowest responsive and responsible bidder, Best Drilling and Pump, Inc. of Colton, California, in the amount of \$1,690,277;
2. Authorize a 10% change order authority in the amount of \$169,027.70 for Bid No. RPU-8212 for the construction of the FY2025/26 Groundwater Well Rehabilitation Project;
3. Approve the capital expenditure for Work Order No. 2522339 in the amount of \$991,000 which includes all design, construction, construction support, contract administration, inspection and construction change order authority costs for the rehabilitation of the Garner C Well;



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RECOMMENDATIONS

4. Approve the capital expenditure for Work Order No. 2522340 in the amount of \$1,143,000 which includes all design, construction, construction support, contract administration, inspection and construction change order authority costs for the rehabilitation of the Tippecanoe Well; and
5. 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 \$2,134,000 and in accordance with all purchasing policies.



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