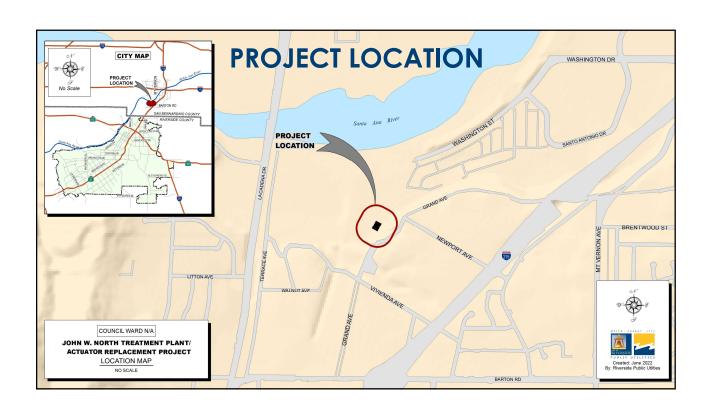


ACTUATOR REPLACEMENT PROJECT JOHN W. NORTH TREATMENT PLANT

Riverside Public Utilities

Board of Public Utilities

September 12, 2022



BACKGROUND

- 1. The J.W. North Treatment Plant began operating in September 2008.
- 2. The plant uses an "ultrafiltration" ZeeWeed 1000 membrane system that relies on water valve actuators to keep them filled with water.
- 3. Constant water level fluctuations contribute to the membrane's filtration effectiveness.
- 4. Water level fluctuation is created with both feed and backwash valves controlled by the actuators.
- 5. Membrane damage will occur if not kept wet.



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DISCUSSION – BASIN & VALVES

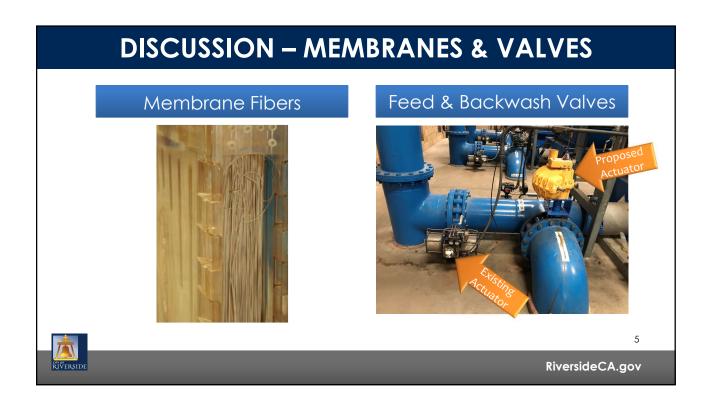
Ultrafiltration Basin

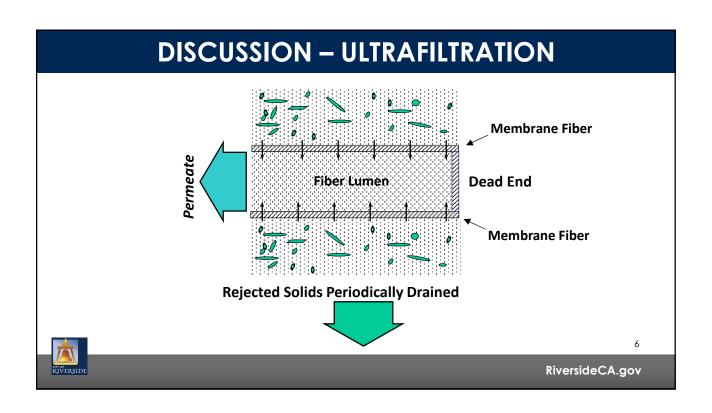


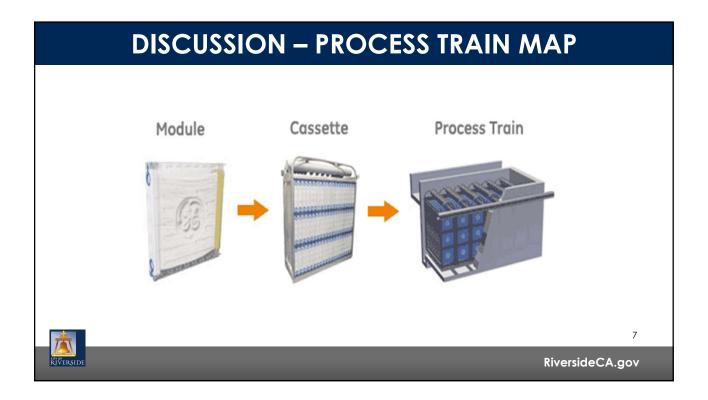
Feed & Backwash Valves











DISCUSSION

- 1. The Kinetrol Actuator is only available through local contractor R&B Automation, who is also offering specialized integration hardware making it adaptable to our existing membrane ultrafiltration system.
- 2. R&B Automation will provide maintenance training to water operation technicians.
- 3. The Kinetrol Actuators come with a 1 million cycle warranty, which is offered through R&B Automation Inc.

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DISCUSSION

- 4. Purchasing resolution 23812, Section 702(d) provides that informal procurement instead of competitive procurement may be utilized when the procurement can only be obtained timely from a single source.
- 5. The Purchasing Manager concurs that the recommended actions are compliant with Purchasing Resolution No. 23812.



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DISCUSSION PROJECT BREAKDOWN

Replacement	R&B Automation Inc.
Performed By:	
Anticipated Start	September 2022
Date:	SCOTCITIOCI 2022
Anticipated	2 days
Duration:	
Coordination	RPU Water Operations staff
Required With:	
Reimbursements:	None



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STRATEGIC PLAN ALIGNMENT



Priority 4 - Environmental Stewardship

Goal 4.2: Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable drinking water.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility





Equity



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RECOMMENDATIONS

That the Board of Public Utilities:

- 1. Approve the Services Agreement for Replacement of Actuators at JW North Water Treatment Plant with R&B Automation, Inc., of Temecula, California, in the amount of \$75,006.99;
- 2. Authorize the City Manager, or designee, to execute the Services Agreement with R&B Automation, Inc., including making minor and non-substantive changes; and
- 3. Approve Work Order No. 2227727 for the actuator replacement work at JW North Water Treatment Plant.



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