



WATER SCADA PHASE II PROJECT

Riverside Public Utilities

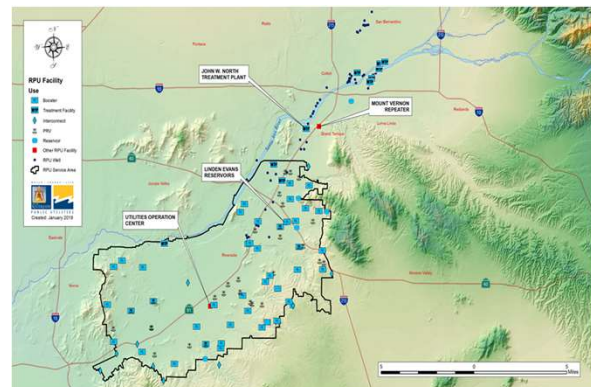
Board of Public Utilities
November 28, 2022

RiversideCA.gov

BACKGROUND

RPU Water has many remote assets including:

- 52 Wells
- 32 Booster Stations
- 16 Reservoirs
- 6 Treatment Plants
- Inter-Agency Connections
- Future sites



2



RiversideCA.gov

BACKGROUND

Supervisory Control and Data Acquisition (SCADA)

- Controls and Monitors
- Allows Remote Operation
- Provides Critical Data
- Alerts System Operators



3



RiversideCA.gov

BACKGROUND

RPU Water SCADA System was developed in the 1990s

- Obsolete Technology
- Unsupported
- Failed components
- Lack of replacement components
- Increased O&M Costs



4



RiversideCA.gov

DISCUSSION

1. RPU Water's SCADA system had 29 findings in the 2016 SCADA Vulnerability Assessment.
2. RPU Water launched a multi-phased project to address the aging infrastructure and the critical findings.
3. SCADA Phase I – Communications upgrade was completed in 2022.
4. SCADA Phase II – Technology upgrade will be a 5-year project, discussed herein.
5. SCADA Phase III – Site specific instrumentation upgrades, will be brought back, at a later date.



5

RiversideCA.gov

DISCUSSION

Multiple RFPs for SCADA Phase II:

1. RFP 2031 SCADA Software Application (pricing included as a subcontractor of Design Build RFP) - Inductive Automation
2. RFP 2056 Design Build Construction Services – Tesco Controls
3. RFP 2109 Owners Representative – Eramosa International, Inc.
4. Ongoing Maintenance & Service Agreement – Inductive Automation
5. RPU Staff Support



6

RiversideCA.gov

DISCUSSION SUBTITLE

Task Description	Performed By	Total	Percent of Total
Design-Build Construction Services	Tesco Controls	\$9,318,000	78%
10% Construction Contingency	-	\$931,800	8%
	Sub-total	\$10,249,800	
Consulting Services – Owner's Representative Professional Services	Eramosa International, Inc.	\$1,303,286	11%
10% Professional Services Contingency	-	\$130,329	1%
	Sub-total	\$1,433,615	
Annual Maintenance & Service Agreement – 4 Years	Inductive Automation SCADA Software	\$120,000	1%
Water Operations Support & Inspections	RPU Operations	\$186,360	1%
	Sub-total	\$306,360	
Work Order Total		\$11,989,775	100%



RiversideCA.gov

STRATEGIC PLAN ALIGNMENT



Strategic Priority 6 - Infrastructure, Mobility & Connectivity

Goal 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.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



8

RiversideCA.gov

RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve a total expenditure amount of \$10,249,800 Design-Build Agreement for Water SCADA Technology Upgrade from RFP No. 2056, and a total expenditure amount of \$1,433,615 for a Professional Services Agreement for Owner's Representative Services for the Water SCADA Technology Upgrade Project from RFP No. 2109; and
2. Approving a total capital expenditure amount of \$11,989,775 for Work Order 215467, including additional project costs of \$306,360 for the Water SCADA Phase II (Technology Upgrade) Project; and



9

RiversideCA.gov

RECOMMENDATIONS CONT.

That the Board of Public Utilities recommend that the City Council:

3. Approve the Design-Build Agreement for Water SCADA Technology Upgrade from RFP No. 2056 with Tesco Controls of Sacramento, California in the amount of \$9,318,000 plus 10% change order authority in the amount of \$931,800;
4. Authorize the City Manager, or designee, to execute the Design-Build Services Agreement including making minor and non-substantive changes and to sign all documents and instruments necessary to complete the transactions;
5. Approve the Professional Services Agreement for Owner's Representative Services for the Water SCADA Technology Upgrade Project from RFP No. 2109 with Eramosa International, Inc. of Overland Park, Kansas, for a term through December 31, 2028, in the amount of \$1,303,286, plus 10% change order authority in the amount of \$130,329; and
6. Authorize the City Manager, or designee, to execute the Professional Services Agreement including making minor and non-substantive changes and to sign all documents and instruments necessary to complete the transactions.



10

RiversideCA.gov