



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL DATE: OCTOBER 5, 2021

FROM: PUBLIC WORKS DEPARTMENT WARDS: ALL

SUBJECT: RIVERSIDE WATER QUALITY CONTROL PLANT – PURCHASE OF SOFTWARE AND TECHNICAL SUPPORT SERVICES FOR SYSTEM CONTROL AND DATA ACQUISITION CONTROL SYSTEMS FROM E&M ELECTRIC & MACHINERY, INC., DBA WONDERWARE OF HEALDSBURG, CALIFORNIA IN THE AMOUNT OF \$185,045; AND APPROVAL OF THE TWO-YEAR SOFTWARE END-USER LICENSE AGREEMENT

ISSUE:

Approve the purchase of software and technical support services for the System Control and Data Acquisition (SCADA) control systems from E&M Electric & Machinery, Inc., dba Wonderware of Healdsburg, California in the amount of \$185,045; and approve the two-year end-user license agreement for the Wonderware software with Aveva Software, LLC.

RECOMMENDATION:

That the City Council:

1. Approve the purchase of software and technical support services from E&M Electric & Machinery Inc., dba Wonderware of Healdsburg, California for SCADA control systems in the amount of \$185,045; and
2. Authorize the City Manager, or his designee, to execute the two-year end-user license agreement with Aveva Software, LLC, including minor and non-substantive changes.

BACKGROUND:

The Public Works Department Wastewater Division is responsible for the collection and treatment of wastewater generated within the City of Riverside and the communities of Edgemont, Highgrove, Jurupa, and Rubidoux at the Riverside Water Quality Control Plant (RWQCP). The RWQCP utilizes a SCADA system to allow operations, laboratory, and regulatory compliance staff to remotely monitor and control virtually every process utilized at the RWQCP and monitor remote facilities in the City's collections system. SCADA eliminates the need to dedicate staff time to manually retrieve information and control facilities. Wonderware is the operating software that the RWQCP utilizes for its SCADA system. It is utilized by numerous government agencies, including Riverside Public Utilities (RPU), Riverside Energy Resource Center (RERC), and the Springs Generating Station (Springs). It is recognized as the industry standard for SCADA applications.

Wonderware operating software consists of a number of aspects, including redundant structured query language (SQL) data historian servers, redundant terminal servers utilizing 34 thin clients, multiple development and other computers. Data historians collect information from multiple programmable logic controllers (PLC) to display current and historical data on thin clients.

Existing technical support services with Wonderware include free version upgrades. The Wonderware configuration at the RWQCP has been upgraded by plant staff seven times since its inception in 2005. Since 2005, the RWQCP and RPU continually received ongoing technical support services from a Wonderware authorized distributor.

Continuing the technical support for the Wonderware software is essential for maintaining system upgrades, process changes, and SCADA systems.

DISCUSSION:

E&M Electric & Machinery, Inc. dba Wonderware (E&M) is the vendor for the Wonderware software used at RERC and Springs. E&M provides technical support and software upgrades when required. The software is owned by Aveva Software, LLC.

Like all major operating software, Wonderware is a licensed product that is continuously being improved and upgraded. Renewing the support services will provide the most stable operating platform to meet the needs of Public Works and Public Utilities facilities. To obtain better pricing, staff combined the technical software support and licensing for both departments into one agreement. By doing so, both departments realized a reduction of \$12,000 in the cost of the software.

Additionally, this purchase is not required to go through competitive procurement. Under Section 702(q) of City Council Resolution No. 23256, Exceptions, "Competitive procurement through the informal procurement and formal procurement process shall not be required when the procurement is for the annual maintenance, license(s), support, or similar need for current technology systems, including hardware, and the items procured are from the owner/developer of the software/hardware or from a sole source provider, and the manager is satisfied that the best price, terms and conditions have been negotiated."

The Board of Public Utilities concurred with these recommendations on September 27, 2021, during a regularly scheduled meeting.

The Purchasing Services Manager concurs that the recommended actions comply with Purchasing Resolution No. 23256.

STRATEGIC PLAN ALIGNMENT:

This item contributes to the following strategic priorities and goals from the Envision Riverside 2025 Strategic Plan:

Strategic Priority 4, Environmental Stewardship

- **Goal 4.3.** Implement local and support regional proactive policies and inclusive decision-making processes to deliver environmental justice and ensure that all residents breath

healthy and clean air with the goal of having zero days of unhealthy air quality per the South Coast Air Quality District's Air Quality Index (AQI).

Strategic Priority 5, High Performing Government

- **Goal 5.4.** Achieve and maintain financial health by addressing gaps between revenues and expenditures and aligning resources with strategic priorities to yield the greatest impact.

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.
- **Goal 6.3.** Identify and pursue new and unique funding opportunities to develop, operate, maintain, and renew infrastructure and programs that meet the community's needs.

This project aligns with each of the five cross-cutting threads as follows:

1. **Community Trust** – The ability to remotely monitor and control the RWQCP's and RPU's operations ensures that the City's utility operations do not negatively impact the community and environment.
2. **Equity** – This agreement supports RWQCP and RPU's efforts in protecting the public's health and environment by ensuring that critical infrastructure and equipment are operating efficiently and effectively.
3. **Fiscal Responsibility** – This agreement will target ways to reduce costs, minimize inefficiencies, and develop control methods to optimize operating processes. Partnering with RPU demonstrates prudent stewardship of public funds and responsible management of the City's financial resources.
4. **Innovation** – This agreement exemplifies a collaborative partnership between RWQCP and Wonderware to enhance operational reliability by achieving measurable improvements and using the most up-to-date software.
5. **Sustainability & Resiliency** – This agreement supports the implementation to continuously monitor and evaluate the RWQCP and RPU's performance to provide essential and critical services to customers.

FISCAL IMPACT:

The total fiscal impact of the action is \$185,045. The funds are available in the Sewer Fund, SCADA & SPL Software Purchase/Licensing account number 4125420-425700 (\$121,955) and the Electric Fund, Springs Power & Energy Purch and RERC/Acorn Gen Plant Maintenance-Generating Plants account numbers 6120120-424131 and 6120130-424131 (\$63,090) for a total amount of \$185,045, as shown in Table 1 below.

Table 1: Fiscal Impact Summary

Department	Account	FY 2021/22 Cost
Public Works- Sewer	4125420-425700	\$121,955
Public Utilities:		
Electric Springs Power & Energy Purch	6120120-424131	\$25,236
Electric RERC/Acorn Gen Plant	6120130-424131	\$37,854
Total		\$185,045

No additional appropriations are required and there is no impact to the General Fund

Prepared by: Gilbert Hernandez, Interim Public Works Director
 Certified as to
 availability of funds: Edward Enriquez, Chief Financial Officer/Treasurer
 Approved by: Rafael Guzman, Assistant City Manager
 Approved as to form: Phaedra A. Norton, City Attorney

Concurs with: Todd M. Corbin, Utilities General Manager

Attachments: Agreement
 Vendor Quote