



## Agenda Memorandum

Agenda Item – {{section.number}}.D.

City Council Meeting  
August 28, 2023



### Strategic Priority 5: Robust Infrastructure

Provide safe and equitable access to core services and amenities by safeguarding, maintaining and improving the city's water, wastewater, stormwater, mobility and roadway systems.

**Subject:** Authorize Sole Source Purchase from Q-mation, Inc. of Aveva Scada Platform Software for the Three-Year Period from 2023 to 2025

**Prepared By:** Andrea Song, Utilities Manager  
Aaron Sturm, Instrumentation & Control Systems Engineer

### Recommended City Council Action:

Based upon the recommendation of the City Manager, find that the public interest will be best served by authorizing a sole source purchase from Q-mation, Inc. in an amount not to exceed \$105,000 annually for AVEVA System Platform Software for the three-year period from 2023 to 2025, for a total cost not to exceed \$315,000 for the three-year period.

### Summary Statement:

- The City owns and operates two potable water treatment facilities, one reclaimed water treatment facility, one wastewater treatment facility, ten water storage tanks, ten potable water pumping stations, six wastewater lift stations, and multiple raw water storage, metering, and pumping facilities.
- The AVEVA System Platform Software (AVEVA) provides the Supervisory Control and Data Acquisition (SCADA) solution that enables Staff to remotely record, monitor, control, and automate the utilities' water, reclaimed, and wastewater infrastructure.
- Q-mation, Inc. (Q-mation), the vendor for AVEVA, requires a three-year term purchase, paid in three equal annual installments. These payments include all needed cybersecurity and other updates.
- Staff is requesting the authorization of a sole source purchase from Q-mation for AVEVA beginning in October 2023 and ending in October 2026, for a total cost not to exceed \$315,000 for the three-year period.
- Adequate funds are budgeted and are available in the Utility Fund for this expenditure.

**Fiscal Impact:**

Not to exceed \$105,000 annually for the years 2023, 2024, and 2025 for a total cost not to exceed \$315,000 for the three-year period.

**Source of Funds:**

Utility Fund: Utilities Division Operating Budgets

Utility Fund Capital Improvement Fund: SCADA & PLC Updates

**Policy Issue(s):**

Should City Council authorize a sole source purchase with Q-mation for the licensing of the AVEVA System Platform Software for the City's utility SCADA system, not to exceed \$105,000 annually with a total cost not to exceed \$315,000 for the three-year period from 2023 to 2025?

**Alternative(s):**

City Council could choose not to approve the purchase as recommended. In this case the City would not have the SCADA software necessary to control pumping, treatment, and data collection required by both the Environmental Protection Agency (EPA) and Colorado Department of Public Health and Environment (CDPHE). This is not recommended as the City has been using the AVEVA System Platform for the last 21 years. The City has received guaranteed pricing for a three-year term beginning in October 2023, and the AVEVA System Platform Software continues to offer the best value for the City. Lack of a functional SCADA platform would create serious state and federal regulatory violations and put public health at risk.

**Background Information:**

AVEVA was deployed in the City's Northwest Water Treatment Facility in 2002 and has since been deployed utility-wide across raw, drinking, wastewater, and reclaimed water assets.

The City utilizes AVEVA for data collection, process control, and monitoring of systems at all water, reclaimed, and wastewater facilities to ensure the utility meets and exceeds federal and state regulatory requirements. Q-mation is the sole regional provider of AVEVA. The software performs well, and the City's current utility infrastructure communications system is built on this platform. The software continues to be reasonably priced for a program of this size and magnitude. Staff recommends the authorization of a three-year purchase agreement with Q-mation for the purchase of the AVEVA SCADA software that supports the City's Utility systems.

The current quote attached is for \$91,585 and includes 35 licenses. There is potential need for additional licenses, so Staff is requesting additional funding not to exceed \$105,000 annually to address these potential additional costs.

The recommended sole source purchase of AVEVA from Q-mation helps achieve the City's Strategic Plan, Strategic Priority 5: Robust Infrastructure, to "Provide safe and equitable access to core services and amenities by safeguarding, maintaining and improving the city's water, wastewater, stormwater, mobility, and roadway systems." by maintaining software for vital City operations.

Respectfully Submitted,

*Mark A Freitag*

Mark A. Freitag  
City Manager

**Attachments:**

Attachment 1 – AVEVA Sole Source Letter  
Attachment 2 – Q-mation, Inc. Proposal