



# Folsom City Council Staff Report

<b>MEETING DATE:</b>	6/9/2020
<b>AGENDA SECTION:</b>	Consent Calendar
<b>SUBJECT:</b>	Resolution No. 10460 - A Resolution Authorizing the City Manager to Execute an Agreement with Tesco Controls for Consulting Services for the Supervisory Control and Data Acquisition (SCADA) System Upgrade and Maintenance Services for Water and Sewer
<b>FROM:</b>	Environmental and Water Resources Department

## **RECOMMENDATION / CITY COUNCIL ACTION**

The Environmental and Water Resources Department recommends the City Council pass and adopt Resolution No. 10460 - A Resolution Authorizing the City Manager to Execute an Agreement with Tesco Controls, Inc for Consulting Services for the Supervisory Control and Data Acquisition (SCADA) System Upgrade and Maintenance Services for Water and Sewer.

## **BACKGROUND / ISSUE**

The Environmental and Water Resources Department currently uses a Supervisory Control and Data Acquisition (SCADA) system to control and communicate with remote water and wastewater facilities throughout the City. The SCADA system transmits data from remote locations via radio and cellular signals to receivers located at the City's Corporation Yard and Water Treatment Plant. SCADA allows operators to monitor and control the operations of the water and sewer systems from remote locations and collects data from remote monitoring stations. The SCADA system also reduces the labor-hours required to operate the system, increasing the overall efficiency of department staffing.

Additionally, the data collection monitoring and alarms within the SCADA system allow the City to comply with regulatory requirements of both the Regional Water Quality Control Board (RWQCB) for sewer and the State Water Resources Control Board-Division of Drinking Water

(DDW) for water. SCADA allows the City to increase efficiency and reduce the overall operational costs by remotely monitoring and operating the department's facilities.

Currently, the City has two separate Wonderware Intouch Applications: one for the Water System and one for the Sewer system. The City intends to replace the two (2) existing Wonderware Intouch applications with one (1) unified application for both the water and sewer systems at a single location. This will allow the City to upgrade the system hardware, improve redundancy and security, and upgrade the system software to the latest version.

The City issued a Request for Proposals for SCADA system upgrade and maintenance and because of their knowledge of SCADA systems and the programming requirements of the City, Tesco Controls, Inc. has proven to be uniquely qualified in having the technical expertise to provide these services. City staff recommends authorizing the City Manager to execute an agreement with Tesco Controls, Inc. for consulting services for the SCADA system upgrade and maintenance services for water and sewer.

### **POLICY / RULE**

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$62,014 or greater shall be awarded by City Council.

### **ANALYSIS**

As with any equipment or operations system, the City's overall SCADA system needs to be maintained and upgraded to be compatible with the water and sewer facilities system improvements, technology upgrades and general operational requirements. SCADA system maintenance and upgrades will include the following services:

- Integrate new and upgraded facilities into the existing SCADA system
- Purchase and install new virtualized hardware and software for the SCADA system
- Program, configure and upgrade software for both water and sewer systems
- Interface with Environmental and Water Resources Department engineers and operations staff to plan, design and upgrade the new hardware and software upgrades to have operational functionality, cyber-security and full back up capabilities
- Interface with Environmental and Water Resources Department engineers and operations staff to coordinate and develop SCADA information to be included into regulatory reports
- Provide training to Environmental and Water Resources Department staff on SCADA equipment and software

The water and sewer divisions operate complex treatment, pump station, tank, and monitoring systems. These systems have complex software and components that require upgrades and modifications periodically. These upgrades and modifications require specially trained personnel to perform these functions. The City issued a Request for Proposals for SCADA system upgrade and Maintenance and received 5 proposals from qualified firms. After review of the proposals, the City proposes to utilize Tesco Controls, Inc. for these services for a not-to-exceed amount of \$315,000.

**FINANCIAL IMPACT**

Sufficient funds have been budgeted in the Sewer Operating Fund (530) and Water Operating Fund (520), for FY 2019-20 for these services.

**ENVIRONMENTAL REVIEW**

This project is exempt from environmental review under the California Environmental Quality Act, Section 15301 "Existing Facilities".

**ATTACHMENT**

Resolution No. 10460 - A Resolution Authorizing the City Manager to Execute an Agreement with Tesco Controls, Inc. for Consulting Services for the Supervisory Control and Data Acquisition (SCADA) System Upgrade and Maintenance Services for Water and Sewer.

Submitted,

---

Marcus Yasutake, Director  
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

**RESOLUTION NO. 10460**

**A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH TESCO CONTROLS, INC. FOR CONSULTING SERVICES FOR THE SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM UPGRADE AND MAINTENANCE SERVICES FOR WATER AND SEWER**

**WHEREAS**, the Environmental and Water Resources Department currently utilizes Supervisory Control and Data Acquisition (SCADA) system to control and communicate with remote water and wastewater facilities; and

**WHEREAS**, the City is required to meet specific Regional Water Quality Control Board (RWQCB) and State Water Resources Control Board - Department of Drinking Water (DDW) compliance requirements; and

**WHEREAS**, the City's overall SCADA system needs to be maintained and upgraded to be compatible with the water and sewer facilities system improvements, technology upgrades and general operational requirements; and

**WHEREAS**, Tesco Controls, Inc., by reason of their past experience and abilities for performing these types of services, is uniquely qualified and recommended to continue to perform the required services; and

**WHEREAS**, funds have been budgeted in Sewer Operating Fund (530) and Water Operating Fund (520), for FY 2019-20; and

**WHEREAS**, the agreement will be in a form acceptable to the City Attorney:

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Folsom authorizes the City Manager to execute an agreement in the amount of \$315,000 with Tesco Controls, Inc. for consulting services for the Supervisory Control And Data Acquisition (SCADA) system upgrade and maintenance for water and sewer for a not to exceed total fee of \$315,000.

**PASSED AND ADOPTED** this 9<sup>th</sup> day of June, 2020, by the following roll-call vote:

**AYES:** Council Member(s):  
**NOES:** Council Member(s):  
**ABSENT:** Council Member(s):  
**ABSTAIN:** Council Member(s):

---

Sarah Aquino, MAYOR

ATTEST:

---

Christa Freemantle, CITY CLERK