



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

DRAFT

AGENDA DATE: July 27, 2010

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Contract For Design Of The El Estero Wastewater Treatment Plant Supervisory Control And Data Acquisition WiFi Backup System

RECOMMENDATION:

That Council authorize the General Services Manager to issue a contract to Beckman Software Engineering, in the amount of \$43,700, for the design and installation of the El Estero Supervisory Control and Data Acquisition (SCADA) WiFi Backup System, and expenditures up to \$4,400 to cover any cost increases that may result from extra services.

DISCUSSION:

City engineering staff is currently working with El Estero Wastewater Treatment Plant (El Estero) staff to design a backup system for the current El Estero SCADA program. The SCADA network communication at El Estero is currently accomplished by use of a single fiber optic cable system. In most cases, the fiber optic cable in El Estero is a direct burial multi-strand, multi-mode cable. As a result, the existing system is currently a single point of failure, not only for the process systems, but the various in-plant and network based information systems. The installation of a backup system will provide an additional SCADA communication network to complement the existing fiber optic network. The additional network will serve as a hot backup wireless network and, upon failure of the fiber optic system, will take over and maintain network communication.

SELECTION PROCESS:

A Request for Proposal (RFP) process was sent to three firms who perform these types of services. One proposal was received from Beckman Software Engineering. One of the other firms we contacted, Compuvision/Vision Communications, teamed up with Beckman Software Engineering as a sub consultant and therefore did not submit a proposal. The third company did not respond. Beckman Software Engineering is a well qualified firm and has successfully completed many similar projects for the City.

BUDGET/FINANCIAL INFORMATION:

Staff requests authorization of the General Services Manager to issue a contract to Beckman Software Engineering, in the amount of \$43,700, to provide project design and installation services. Staff requests additional approval of \$4,400, or approximately 10%, to cover any necessary unforeseen changes in scope, for a total authorization amount of \$48,100.

There are adequate funds in the Wastewater Capital Fund to cover the cost of this contract.

PREPARED BY: Christopher Toth, Wastewater System Manager/ALS/nrs

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office