



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 17, 2014

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Design For The El Estero Fats, Oils, And Grease Scrubber Project

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with CDM Smith, Inc., in the amount of \$98,800 for design services for the El Estero Wastewater Treatment Plant Fats, Oils and Grease Scrubber Project, and authorize the Public Works Director to approve expenditures of up to \$9,880 for extra services that may result from necessary changes in the scope of work.

DISCUSSION:

BACKGROUND

On November 11, 2011, Council awarded a contract for construction for the El Estero Wastewater Treatment Plant (El Estero) Pilot Fats, Oils and Grease (FOG) Program. The goal of the program was to take in a waste stream of selected fats, oil, and grease in the wastewater treatment plant's two digester units to increase biogas production, which can be used for a reusable energy source. The FOG facility was constructed, and El Estero has been receiving FOG waste material from Marborg Industries since April 2013.

During routine maintenance on the FOG receiving tank, El Estero staff noted measurable levels of hydrogen sulfide (H₂S) leaving the existing vent and carbon filter. After an initial evaluation, it was determined that the existing vent may pose a potential safety risk because H₂S concentrations could exceed toxic levels during FOG deliveries. In an effort to remedy a potential safety issue, staff purchased a carbon vent scrubber. It has not been installed because a Santa Barbara Air Pollution Control District (SBAPCD) permit is required. In addition, the carbon vent scrubber sizing needs to be confirmed to ensure that it performs at an acceptable level, and additional design efforts are needed to install the carbon vent scrubber.

PROJECT DESCRIPTION

The work includes analyzing the existing H2S concentrations and validating the sizing of the newly purchased carbon vent scrubber; preparation of design documents to bid and install an air-scrubber, bidding and construction support services, which also includes review of shop drawings and preparation of record drawings; and SBAPCD permitting support.

DESIGN PHASE CONSULTANT ENGINEERING SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with CDM Smith Inc. (CDM) in the amount of \$98,800 for design and \$9,880 for potential extra services, for a total amount of \$108,680. Staff issued a Request for Proposals (RFP) to three engineering firms that are familiar with wastewater treatment plant processes, and two proposals were submitted. CDM was selected for this work as they were responsive to the RFP requirements, met the project timeline, and have the expertise to perform the work.

FUNDING

The following summarizes all estimated total Project costs, broken down by each phase:

ESTIMATED TOTAL PROJECT COST

Design Analysis and Scrubber Validation (by Contract)	\$4,980
SBAPCD Permitting Support (by Contract)	\$9,847
Design (by Contract including Extra Services)	\$76,543
Other Design Costs - City Staff	\$16,614
Subtotal	\$107,984
Bid Assistance (by Contract)	\$8,689
Construction Support Services (by Contract)	\$8,621
Subtotal	\$17,310
Estimated Construction Contract w/Change Order Allowance	\$38,500
Estimated Construction Management/Inspection (by City)	\$4,000
Subtotal	\$42,500
TOTAL PROJECT COST	\$167,794

There are sufficient appropriated funds in the Wastewater Fund to cover these costs.

PREPARED BY: Lisa Arroyo, Supervising Civil Engineer/BR/mh

SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office