



# CITY OF SANTA BARBARA

## COUNCIL AGENDA REPORT

**AGENDA DATE:** February 26, 2013

**TO:** Mayor and Councilmembers

**FROM:** Engineering Division, Public Works Department

**SUBJECT:** Contract For Design Of Tertiary Filtration Plant Replacement Project

### RECOMMENDATION:

That Council authorize the Public Works Director, subject to approval as to form by the City Attorney, to execute a City Professional Services contract with CDM Smith, Inc., in the amount of \$742,406 for final design services for the Tertiary Filtration Plant Replacement Project, and authorize the Public Works Director to approve expenditures of up to \$74,240 for extra services of CDM Smith, Inc., that may result from necessary changes in the scope of work.

### DISCUSSION:

#### BACKGROUND

The City's Tertiary Filtration Plant was constructed in 1989 at the El Estero Wastewater Treatment Plant. It was one of the first recycled water facilities in California, and was designed to produce approximately 4 million gallons of recycled water per day, thus reducing the need for potable water. Over the past 20 years, the Tertiary Filtration Plant has been subject to corrosion and is in need of significant refurbishment and optimization to allow for the effective production of recycled water. In addition, the existing filter complex has operational challenges and operation and maintenance safety concerns that need to be addressed.

On January 24, 2012, Council awarded a contract with CDM Smith, Inc., for engineering assessment and preliminary design services for the Tertiary Filtration Plant.

CDM Smith, Inc., working with staff, evaluated four filtration technologies, along with rehabilitating the existing filter complex. The Microfiltration/Ultrafiltration (MF/UF) alternative was the recommended alternative because it will provide reliable recycled water quality for users and address the various operation and maintenance issues that currently exist with the tertiary filter complex.

PROJECT DESCRIPTION

Design services will include preparing plans and specifications to demolish the existing Tertiary Filter Plant and construct the new facility to accommodate a MF/UF system, including ancillary facilities for cleaning the membranes and associated chemical systems. The system will be designed to produce 3 million gallons of recycled water per day.

DESIGN PHASE CONSULTANT ENGINEERING SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with CDM Smith, Inc., in the total amount of \$816,646 for final design services. CDM Smith, Inc. was selected through a competitive Request for Proposals process for the assessment and preliminary design process. CDM Smith, Inc. is experienced in this type of work.

FUNDING

The following summarizes all estimated total Project costs:

**ESTIMATED TOTAL PROJECT COST**

Assessment & Preliminary Design (by Contract)	\$494,775
<b>Subtotal</b>	<b>\$494,775</b>
Final Design (by Contract)	\$816,646
Other Design Costs (City staff Project Management, Survey, Environmental Review )	\$82,711
<b>Subtotal</b>	<b>\$899,357</b>
Estimated Construction Contract w/Change Order Allowance	\$5,857,330
Estimated Construction Management/Design Support (by Contract)	\$745,478
Estimated Construction Management (City Staff)	\$158,091
<b>Subtotal</b>	<b>\$6,760,899</b>
<b>TOTAL PROJECT COST</b>	<b>\$8,155,031</b>

This project was anticipated and there are adequate appropriated funds in the Water Capital Fund for final design services.

**SUSTAINABILITY IMPACT:**

Recycled water is an important part of our water supply that helps sustain our current water supplies and avoid the need to develop new ones.

At their meeting on February 11, 2013, the Board of Water Commissioners voted 5-0-0 to concur with staff's recommendation.

**PREPARED BY:** Joshua Haggmark, Principal Civil Engineer/LA/sk

**SUBMITTED BY:** Christine F. Andersen, Public Works Director

**APPROVED BY:** City Administrator's Office