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Agenda Item No. _____

File Code No. _____



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: July 16, 2013

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Professional Services Agreement For The Enhanced Chemical Wastewater Treatment Pilot Project

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with Brown and Caldwell in the amount of \$38,708 for engineering services for the Enhanced Chemical Wastewater Treatment Pilot Project, and authorize the Public Works Director to approve expenditures of up to \$3,870 for extra services of Brown and Caldwell that may result from necessary changes in the scope of work.

DISCUSSION:

BACKGROUND

On October 22, 2011, Council awarded a contract to Brown and Caldwell (B&C) to prepare a Preliminary Design Report (PDR) for the Aeration Basin System Improvement Project to improve the secondary treatment process at the El Estero Wastewater Treatment Plant (El Estero). During this preliminary design phase, B&C recommended a chemical addition to the primary treatment process. This chemical addition will increase the capture of organic solids and reduce solids loading to the secondary system. This will result in El Estero's wastewater treatment process operating more efficiently and cost effectively.

PROJECT DESCRIPTION

Staff recommends performing a pilot project to confirm the effectiveness of the chemical addition to the primary treatment process. The pilot project will consist of adding chemicals to improve the capture of total suspended solids and particulate organic in the primary clarifiers. The effectiveness on downstream treatment processes will be evaluated, and a recommendation by B&C regarding the full-scale, permanent implementation will be provided at the end of the pilot project.

B&C will provide engineering services to develop the framework for implementing a chemical dosing plan, including chemical dosing protocols, and sampling and performance analyses. A testing plan will be prepared that describes the test program design, chemical dosing equipment and locations, parameters to monitor, and recommendations for testing duration. B&C will be on site to observe and assist with testing, and will review and analyze the results. If the pilot project is successful, a permanent installation can be implemented into the final design of the Aeration Basin System Improvement Project.

CONSULTANT ENGINEERING SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with B&C in the amount of \$42,578 for engineering services. B&C is preparing the Aeration Basin System Improvement Project PDR, which this work is a part of.

BUDGET/FINANCIAL INFORMATION:

There are sufficient funds in the Wastewater Capital Fund to cover this Professional services contract work.

Staff made a presentation to the Board of Water Commissioners on July 8, 2013.

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

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office