



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: October 8, 2013

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Contract For Development Of Wastewater Collection System Hydraulic Computer Model

RECOMMENDATION:

That Council approve and authorize the Public Works Director to execute a contract with Water Systems Consulting, Incorporated, in the amount of \$183,845 for Wastewater Collection System hydraulic modeling services, and approve expenditures of up to \$18,385 for extra services of Water Systems Consulting, Incorporated, that may result from necessary changes in the scope of work, for a total of \$202,230.

DISCUSSION:

The City of Santa Barbara owns and operates a 254-mile municipal wastewater collection system. Sewer mains in this system range in size from 6 to 42 inches in diameter. In order to minimize the occurrence of sanitary sewer overflows from this system, it is imperative that sewer system management activities are conducted efficiently and effectively. Staff has identified opportunities to better utilize technology to both plan and assess its current Wastewater Collection System Capital Improvement Program and the associated maintenance work. An important component of utilizing the above technology is to complete the development of the City's sewer system computer model by including small diameter sewer mains and updating the hydraulic data inputs to the newly-modeled sewer mains.

The City issued a Request for Proposals and received seven proposals from engineering firms interested in developing the sewer system modeling and related work. On July 17, 2013, staff interviewed four firms whose proposals demonstrated the highest conformance to the requested scope of work. From this competitive process, Water Systems Consulting, Incorporated, was selected as the most qualified consultant for this work effort.

The proposed contract scope of work will consist of consultant professional services support for:

- Assessing the City's existing sewer system computer model;
- Updating the existing computer model to include all small diameter city sewer mains;
- Calibrating and validating the computer model;
- Preparing system-wide hydraulic analysis scenarios for present and future use;
- Preparing a summary report which highlights small diameter sewer mains requiring future Capital Improvement Program replacement due to future scenario hydraulic limitations; and
- Providing technical training to City staff so that staff can independently use the updated sewer system computer model.

At their meeting on September 9, 2013, the Board of Water Commissioners voted 3-0-0 to concur with staff's recommendations.

BUDGET/FINANCIAL INFORMATION:

This project was anticipated, and there are adequate appropriated funds in the Wastewater Capital Fund for this professional consultant work.

SUSTAINABILITY IMPACT:

An updated wastewater collection system computer model, which includes all City sewer mains, will assist City staff in determining which sewer mains may require future replacement due to localized population density increases in urban neighborhoods.

PREPARED BY: Christopher Toth, Wastewater System Manager/CJT/mh

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office