



Agenda Report

Fullerton City Council

MEETING DATE: NOVEMBER 5, 2019

TO: CITY COUNCIL / CITY MANAGER

SUBMITTED BY: KENNETH A. DOMER, CITY MANAGER

PREPARED BY: MEG McWADE, PUBLIC WORKS DIRECTOR
TIFFANY FOO, ASSOCIATE WATER ENGINEER

SUBJECT: PARTNER WITH ORANGE COUNTY WATER DISTRICT
FOR A POTABLE WATER REUSE STUDY FUNDED BY
METROPOLITAN WATER DISTRICT OF SOUTHERN
CALIFORNIA'S FUTURE SUPPLY ACTIONS GRANT
PROGRAM

SUMMARY

The Public Works Department Water Division is seeking approval for the receipt of funds from the Future Supply Actions Funding Program (FSA Funding Program) in the amount of \$150,000 funded by the Metropolitan Water District of Southern California (MWD) for a potable reuse study in partnership with Orange County Water District.

RECOMMENDATION

1. Approve grant funding for the FSA Funding Program funded by MWD.
2. Authorize the City Manager to enter into Agreement with MWD.
3. Authorize the City Manager to enter into an Agreement with the Orange County Water District (OCWD).
4. Authorize the Public Works Director to execute any future amendments / supplements with MWD or OCWD, in a form approved by the City Attorney.
5. Accept and appropriate \$150,000 in grants fund (Grant Administration Fund - Fund 32).

PRIORITY POLICY STATEMENT

This item matches the following Priority Policy Statement:

- Public Safety.

FISCAL IMPACT

The program award is for \$150,000. The program requires a non-Metropolitan monetary match of at least 100 percent, which will be provided for by a research grant obtained from the United States Bureau of Reclamation (USBR). No City funding is required to match grant funding. The grant award will not result in any costs or new revenue to the City.

DISCUSSION

MWD issued a request for proposal to Metropolitan member agencies for technical studies or pilot projects under the FSA Funding Program to enable effective future resource planning and potential development of recycled water, seawater desalination, stormwater and groundwater enhancement.

As a lead member agency, the City of Fullerton partnered with OCWD, Orange County Sanitation District (OCSD), Michigan State University and Trussell Technologies to submit a proposal entitled “Demonstrating Virus Log Removal for Potable Reuse to Increase Regulatory Confidence.” The goal of this proposed project is to demonstrate virus removal for potable reuse to increase regulatory credit (log removal values) via two key strategies: (1) appropriately crediting the engineered wastewater treatment process that precedes advanced treatment and (2) deploying improved reverse osmosis (RO) process integrity monitoring as part of advanced treatment.

The data and experience obtained from this study will address some gaps in the current field of knowledge where there is a recognized scarcity of information. These gaps include virus concentrations in raw wastewater, virus removal by conventional wastewater treatment processes and strategies for continuously demonstrating RO integrity with real-time methods. Additionally, the proposed study will also increase future local supply potential by improving regulatory confidence in potable reuse, viability and planning efforts of potable reuse and public confidence in the potable reuse process.

The City of Fullerton is one of 19 major retailers in the OCWD service area, serving a population of approximately 140,000. As a groundwater producer in the OCWD service region, the City relies upon OCWD’s management of the Orange County groundwater basin and is a strong supporter of the OCWD-OCSD Groundwater Replenishment System (GWRS), currently the world’s largest potable reuse facility. OCWD and OCSD facilities are the test sites for the proposed study. Increasing the log removal value credits assigned to the GWRS project would allow a wider range of groundwater recharge / injection and extraction sites to be considered, including within the City of Fullerton, such that the project’s output can be maximized via increased basin management flexibility for OCWD.

The total cost of this study is \$300,000. On January 31, 2019, the City was notified that MWD authorized the proposal for funding under the FSA Program (Attachment 1). On August 14, 2018, OCWD and Trussell Technologies received a United States Bureau of Reclamation grant award in the amount of \$150,000, which will serve as the cash match for this project. For more information regarding the USBR grant cost share, refer to Attachment 2.

As lead agency, the City will need to execute the attached agreements with both MWD and OCWD (Attachment 3 and 4). These agreements have been reviewed by the City Attorney's Office. The City will be receiving invoices from its partners and issue payments after which the City will submit invoices to MWD for eligible reimbursable costs. MWD will not issue eligible reimbursable payments until the City issues payments to invoices submitted by its partners. To issue payments to its partners, the City will need to amend the budget to accept and appropriate \$150,000 in MWD grant funds.

Attachments:

- Attachment 1 – Future Supply Actions Funding Program Proposal Funding Award
- Attachment 2 – USBR Grant to City of Fullerton
- Attachment 3 – Future Supply Actions Funding Program Agreement MWD
- Attachment 4 –Future Supply Actions Funding Program Agreement OCWD