

**File Number:** \_\_\_\_\_

(Provided by Clerk of Board of Supervisors)

**Grant Resolution Information Form**

(Effective July 2011)

Purpose: Accompanies proposed Board of Supervisors resolutions authorizing a Department to accept and expend grant funds.

The following describes the grant referred to in the accompanying resolution:

1. Grant Title: **(1) Funding Opportunity Announcement (FOA) No. R16-FOA-DO-OIO-Desalination and Water Purification Research Program for Fiscal Year 2016-DWPR 019P from the U.S. Bureau of Reclamation; (2) Tailored Collaboration Program from the Water Research Foundation; and (3) 2016 WRRF TC Program from the Water Environment & Reuse Foundation**
2. Department: **SFPUC**
3. Contact Person: **Manisha Kothari** Telephone: **(415) 554-3256**
4. Grant Approval Status (check one):  
 Approved by funding agency                       Not yet approved
5. Amount of Grant Funding Approved or Applied for: **(1) \$200,000 (2) \$100,000 (3) \$100,000**
6. a. Matching Funds Required: **(1) \$200,000 (in-kind/cash); (2) \$100,000 (cash); (3) \$100,000 (cash)**  
b. Source(s) of matching funds (if applicable):  
**Funds for the SFPUC match will come from the SFPUC Water Enterprise Project Code CUW278.**
7. a. Grant Source Agency: **(1) U.S. Bureau of Reclamation (2) The Water Research Foundation (3) Water Environment & Reuse Foundation**  
b. Grant Pass-Through Agency (if applicable): **N/A**
8. Proposed Grant Project Summary:

SFPUC and consultant team will investigate the technical viability of a decentralized purified water system using real-time monitoring and emerging analytical tools at 525 Golden Gate Avenue. The pilot project will be in operation for approximately 8 months and will include extensive lab analysis and performance monitoring for research purposes. Purified water generated by this pilot effort will be blended with the existing treated effluent system and will continue to be used for toilet flushing. Public information will be available as part of this effort.

**Background**

Throughout the country and all over California, water purveyors are considering purified water (also referred to as indirect and/or direct potable reuse) as a viable water supply to meet current and future water needs. Orange County has operated a groundwater replenishment program using advanced treated water since 1971. Ventura and Monterey have set up pilot programs and Santa Clara Valley Water District is expanding its South Bay Advanced Recycled Water Treatment Facility to produce up to 40 mgd of water supply. In each of these cases, the advanced treated water is treated again at a conventional water treatment plant and distributed through a centralized system. With no water treatment facility within San Francisco, such a model is not directly relevant here.

As the State Water Resources Control Board (SWRCB) contemplates regulations for direct potable reuse in California, there is a need for additional data to help inform the discussion regarding its viability.

The SFPUC has been successfully using an innovative constructed wetland treatment system to treat wastewater to Title 22 tertiary standards and operate a decentralized system for toilet flushing at its headquarters building at 525 Golden Gate Avenue since 2012. By adding reverse osmosis (RO) and advanced oxidation processes (AOP), the current structure can be augmented to achieve drinking water standards.

With this pilot project, the SFPUC and consultant team will test decentralized, advanced water treatment over an 8-month period. SFPUC staff will also work with the San Francisco Department of Public Health as the planning for this project proceeds. Beginning in early 2017, the proposed pilot project will take approximately 30% of the effluent produced by the existing tertiary treatment system and direct it through the advanced treatment system (1,500 gallons/day). The project will include real-time monitoring technology to ensure the reliability of the treatment system. The pilot project will also include advanced analytics to regularly evaluate the water quality. After testing, the advanced treated water will be blended with the existing outflow and be used for toilet flushing, as it is currently used. Public information and tours will be developed and offered as part of the pilot project.

9. Grant Project Schedule, as allowed in approval documents, or as proposed:

Start-Date: **November 2016; pilot operation to begin early 2017** End-Date: **September 2018**

10. a. Amount budgeted for contractual services: **\$700,000**  
b. Will contractual services be put out to bid? **Not for the pilot**  
c. If so, will contract services help to further the goals of the Department's Local Business Enterprise (LBE) requirements? **N/A**  
d. Is this likely to be a one-time or ongoing request for contracting out? **One-time**
11. a. Does the budget include indirect costs?  
 Yes  No  
b. 1. If yes, how much? **Approximately \$35,000**  
b. 2. How was the amount calculated? **22% of SFPUC in-kind labor (estimated)**  
c. 1. If no, why are indirect costs not included?  
 Not allowed by granting agency  To maximize use of grant funds on direct services  
 Other (please explain):  
c. 2. If no indirect costs are included, what would have been the indirect costs?

12. Any other significant grant requirements or comments:

**\*\*Disability Access Checklist\*\*\*(Department must forward a copy of all completed Grant Information Forms to the Mayor's Office of Disability)**

13. This Grant is intended for activities at (check all that apply):

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Existing Site(s) | <input checked="" type="checkbox"/> Existing Structure(s) | <input type="checkbox"/> Existing Program(s) or Service(s) |
| <input type="checkbox"/> Rehabilitated Site(s)       | <input type="checkbox"/> Rehabilitated Structure(s)       | <input type="checkbox"/> New Program(s) or Service(s)      |
| <input type="checkbox"/> New Site(s)                 | <input type="checkbox"/> New Structure(s)                 |  |

14. The Departmental ADA Coordinator or the Mayor's Office on Disability have reviewed the proposal and concluded that the project as proposed will be in compliance with the Americans with Disabilities Act and all other Federal, State and local disability rights laws and regulations and will allow the full inclusion of persons with disabilities. These requirements include, but are not limited to:

1. Having staff trained in how to provide reasonable modifications in policies, practices and procedures;
2. Having auxiliary aids and services available in a timely manner in order to ensure communication access;
3. Ensuring that any service areas and related facilities open to the public are architecturally accessible and have been inspected and approved by the DPW Access Compliance Officer or the Mayor's Office on Disability Compliance Officers.

If such access would be technically infeasible, this is described in the comments section below:


Comments:

Departmental ADA Coordinator or Mayor's Office of Disability Reviewer:

Arfaraz Khambatta  
(Name)

Interim Director, Mayor's Office of Disability  
(Title)

Date Reviewed: 10/7/2016

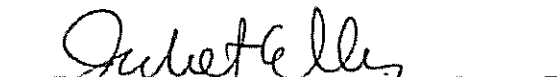
  
(Signature Required)

Department Head or Designee Approval of Grant Information Form:

Harlan L. Kelly, Jr. by JULIET ELLIS ACTING GENERAL MGR  
(Name)

General Manager, San Francisco Public Utilities Commission  
(Title)

Date Reviewed: 10/12/16

  
(Signature Required)