

COUNCIL OF THE COUNTY OF MAUI
WATER AND INFRASTRUCTURE
COMMITTEE

August 9, 2019

Committee
Report No. 19-95

Honorable Chair and Members
of the County Council
County of Maui
Wailuku, Maui, Hawaii

Chair and Members:

Your Water and Infrastructure Committee, having met on July 22, 2019, makes reference to a Miscellaneous Communication dated June 18, 2019, from the County Clerk, referring Contract C6735, between the County of Maui and Fukunaga & Associates, Inc. ("Consultant"), in the amount of \$30,000.

The Deputy Director of Environmental Management provided a copy of the Consultant's proposal containing the scope of work.

The contract is for professional services related to the Kihei Wastewater Reclamation Facility ("WWRF") Effluent Pump Station Renovation ("Project"), a project under CBS-1119, Countywide Environmental Protection Agency (EPA) Compliance Wastewater Reclamation Facility Renovation Projects.

Your Committee notes the following description for CBS-1119 in the Capital Improvement Program:

The purpose of this project is to provide a program for design and construction, renovation or upgrade of equipment at the Wastewater Reclamation Facilities as required by the 20-Year Rehabilitation & Replacement Plan developed under the 1999 Consent Decree.

The Deputy Director stated the Fiscal Year 2020 Budget appropriated \$750,000 for Project construction costs. Your Committee further notes \$150,000 was budgeted for Project design.

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The Deputy Director stated the Kihei WWRF Effluent Pump Station is over 30 years old. He said the aged pumps are running inefficiently and the welded steel pump lines require custom fittings. The Recycled Water Coordinator said replacing the pumps will increase capacity and reliability. He further stated the improvements have a projected life expectancy of 20-25 years.

The Deputy Director explained the Consultant will produce a technical memorandum presenting an analysis of the existing facilities and Project options with associated construction cost estimates. He outlined the three options the Consultant will analyze:

1. Replace the pumps and pump lines, and renovate the pump house.
2. Replace the pumps and pump lines, and demolish the pump house.
3. Relocate the pump station.

The Deputy Director stated the analysis will focus on Options 1 and 2. Option 3 is estimated to cost \$5,000,000, far exceeding the Project budget.

The Deputy Director said the pump house may need to be upgraded to include hurricane-resistant strapping, insulation, and air conditioning to protect sensitive electronic equipment. He further stated these upgrades will likely exceed the Project construction budget, and funding may need to come from another capital project.

Your Committee was interested in how this project fits in with the Department's intention to bypass the injection wells, and said the community would like more environmental and sustainable operations. Your Committee further quoted from the Consultant's proposal: "Pumps

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and the effluent reuse system should also be designed to handle all of the projected flows (100% reuse – no injection wells)”

The Recycled Water Coordinator explained the Kihei WWRF produces an average of four million gallons per day of treated wastewater (all of R-1 quality), and has the capacity to reuse 50 percent of that. He further noted the Wastewater Reclamation Division is currently constructing an additional tank and infrastructure to double the reuse potential to 100 percent. He said the pumps will be sized appropriately.

Your Committee voted 5-0 to recommend filing of the communication. Committee Chair Lee, Vice-Chair Paltin, and members Kama, Molina, and Sinenci voted “aye.” Committee members Hokama and Rawlins-Fernandez were excused.

Your Water and Infrastructure Committee RECOMMENDS that the Miscellaneous Communication be FILED.

This report is submitted in accordance with Rule 8 of the Rules of the Council.



ALICE L. LEE, Chair