



THE CITY OF KEY WEST

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EXECUTIVE SUMMARY

Date: March 15, 2021

To: Greg Veliz, City Manager

CC: John Paul Castro, Utilities Director

From: Ian McDowell, Assistant Engineer

Subject: Approve task order no. 9 from Black & Veatch Corporation for engineering evaluation and design services for replacement of activated sludge pumps at the Richard A. Heyman Environmental Protection Facility

Action Statement

Approve task order No. 9 from Black & Veatch Corporation in the amount for \$92,813.00 for engineering evaluation and design services for replacement of return activated sludge (RAS) and waste activated sludge (WAS) pumps, instrumentation and plumbing at the wastewater treatment facility, under the General Engineering contract approved in Resolution 17-207 and extended in Resolution 20-142. Authorize the City Manager to execute this agreement and any necessary budget transfers/amendments.

Background

The RAS and WAS pumps at the Richard A. Heyman Environmental Protection Facility (RAHEPF) are used to maintain balance of microorganisms in the treatment process of wastewater. These pumps are over 30 years old and exhibit significant signs of wear and tear. Localized equipment related to the pumps, including instrumentation and plumbing, show similar signs of age-related deterioration. It is desirable to renew the RAS pumps, WAS pumps, instrumentation, and plumbing to maintain and improve reliability and serviceability of the critical systems at the RAHEPF.

Purpose and Justification

The purpose of this task order is for the consultant to evaluate the existing system at the treatment facility and determine the most economical solution for replacing the existing equipment. While the purpose is to replace existing equipment with new equipment serving the same capacity, it is anticipated that more efficient modern equivalents of existing equipment will provide energy savings as recommended in the WWTP energy master plan.

The consultant will produce detailed design drawings for bidding and construction purposes to include demolition details, equipment, equipment foundations, instrumentation, plumbing, and electrical distribution. Regular project coordination meetings will be held between the City and consultant to review project requirements and progress.

This resolution supports Key West Strategic Plan infrastructure goal #4 and economic goal #1:
Long-term sustainability of the City's hard assets

Financial

Funding will come from account 401-3504-535-6500. Staff has reviewed the hourly cost breakdown and believe the rate mixture is properly balanced and match the hourly rates set forth within the contract documents.

Recommendation

Staff recommends approving task order for \$92,813.00 for Black & Veatch Corporation to provide engineering evaluation and design services to replace activated sludge pumps and appurtenances at RAHEPF and authorizing the City Manager to execute this agreement and any necessary budget transfer/amendments.