



## THE CITY OF KEY WEST

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### EXECUTIVE SUMMARY

**Date:** July 6, 2018  
**To:** Jim Scholl, City Manager  
**From:** John Paul Castro, Director of Utilities  
**Cc:** Greg Veliz, Assistant City Manager

**Subject:**

Approve Task Order 7-18 SWR from CH2M Engineers, Inc. for the development of an energy efficiency masterplan for the Richard A. Heyman Environmental Protection Facility.

**Action Statement**

This Resolution would approve task order 7-18 SWR from CH2M Engineers, Inc. in the amount of \$78,898.96 pursuant to resolution number 17-207 for data collection, evaluation, design, and development of an energy efficiency master plan for the waste water treatment facility.

**Background**

Since commissioning the Richard A. Heyman Environmental Protection Facility (WWTP) in 1989, the City has proactively operated the WWTP, by implementing improvements and retrofits to more efficiently operate and treat the City's wastewater using current technologies and best practices. For Example:

- Abandonment of Ocean Outfalls, and installation of first Deep Injection Well in 1998
- Replacement of Chlorine Gas disinfection system, with an Ultraviolet Disinfection System in 2005.
- Increased capacity through headworks modifications in 2011.

Throughout the years, treatment processes have been modified, pumps and controls replaced, and concrete repaired. However, many of the electrical components throughout the WWTP are original, and nearing 30 years old. With decades of new technology available, and interest in both fiscal and energy conservation, the City would like to evaluate the WWTP for ways to reduce power

MEMORANDUM

consumption. The City's WWTP is the highest demand usage in the City of Key West with annual electric costs exceeding \$480,000.

**Purpose and Justification**

The Utilities Department is requesting that the consultant provide engineering design services for the preparation of an Energy Efficiency Masterplan for the City's WWTP to provide recommendations for making the plant more efficient and at the same time more cost effective.

**Financial**

Funding will come from account 401-3504-535-3100. Staff has reviewed the hourly cost breakdown and believes the rate mixture are properly balanced and match the hourly rates set forth within the task order compensation chart. \$80,000.00 was budgeted for the task.

**Recommendation**

Approve task order no. 7-18 SWR from CH2M Engineers, Inc. for the development of an Energy Efficient Masterplan for the Richard A. Heyman Protection Facility in the amount of \$78,898.96.