



## THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

MEMORANDUM

### EXECUTIVE SUMMARY

**TO:** Patti McLauchlin, City Manager  
Todd Stoughton, Assistant City Manager

**CC:** John Paul Castro, Utilities Director  
Mark Finigan, Chief Financial Officer

**FROM:** Carolyn Sheldon, Senior Grants Administrator

**DATE:** December 8, 2021

**RE:** Approving the attached "State of Florida Department of Environmental Protection Standard Grant Agreement" No. LPA0246 with the State of Florida Department of Environmental Protection (FDEP) for Florida Keys Stewardship Act funding for a maximum amount of \$1,600,000.00 to support construction of the Key West Treatment Plant Solids Dewatering Upgrades Project. Authorizing the City Manager to execute the necessary documents and authorizing any budget amendments and transfers to accept the funding.

#### **ACTION STATEMENT:**

This resolution will approve the attached "State of Florida Department of Environmental Protection Standard Grant Agreement" No. LPA0246 with the State of Florida Department of Environmental Protection (FDEP) for Florida Keys Stewardship Act funding for a maximum amount of \$1,600,000.00 to support construction of the Key West Treatment Plant Solids Dewatering Upgrades Project. The City Manager will be authorized to execute the necessary documents and necessary budget amendments and transfers to accept the funding will be authorized.

#### **BACKGROUND:**

Funding for this agreement is through the Florida Keys Stewardship Act which was passed in 2016 by the Florida State Legislature and signed into law. The Stewardship Act expanded the types of water projects eligible for state funding authorizing use of funds for Mayfield Grant funding, once limited to wastewater, to include other critical water quality projects such as stormwater and canal restoration. To date, the City has received just over \$6.9 million in funding from the Mayfield Grant and Florida Keys Stewardship Act combined.

Biological activated sludge, composed of bacteria and protozoa, is utilized in the treatment of wastewater to consume organic matter in sewage, and oxidize carbonaceous and nitrogenaceous biological matter. On average 22,000 gallons of

*Key to the Caribbean – Average yearly temperature 77° F.*

activated sludge must be removed from the City of Key West's Richard A. Heyman Environmental Protection Facility, on a daily basis. Dewatered activated sludge may be conveniently and economically transported in trailer truck, where liquid activated sludge must be tanker truck transported, increasing the cost for transportation and risk of spillage. Additionally, the use of a belt filter press is an efficient, low cost to operate and maintain, means of dewatering activated sludge and returning liquid to the treatment process, thereby preventing liquid wastewater from impacting nearshore waters, streams, and lakes.

**PURPOSE AND JUSTIFICATION:**

The 2021-2022 Statewide Surface Water Restoration and Wastewater Projects fund provided for \$1,600,000.00 to support construction of the treatment plant solids dewatering upgrades in accordance with the construction contract documents.

Two (2) belt filter presses; sludge pumps; polymer feed injection and mixing systems; and electrical control panels for motor starters, belt drives, programmable logic controllers, speed and flow indicators will be purchased and installed. Also, the electrical distribution power supply will be upgraded and a sludge cake conveyance belt system constructed.

**FINANCIAL IMPACT:**

With the approval of Agreement No. LPA0246, the City will receive a maximum of \$1,600,000.00 for the construction of treatment plant solids dewatering upgrades budgeted in Revenue Account 4010000 3343900 (Sewer Fund / Revenue / Other Physical Environment). Grant eligible construction costs are budgeted in Expense Account 4013504 5356500 / SE35042006 (Sewer Fund / Treatment Plant Operation / Construction in Progress).

No matching funds are required.

**RECOMMENDATION:**

Staff recommends that the City Commission approve the attached "State of Florida Department of Environmental Protection Standard Grant Agreement" No. LPA0246 with the State of Florida Department of Environmental Protection (FDEP) for Florida Keys Stewardship Act funding for a maximum amount of \$1,600,000.00 to support construction of the Key West Treatment Plant Solids Dewatering Upgrades Project.