

**THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
COMMISSION AGENDA ITEM**

SUBJECT: Cedar Creek Water Reclamation Facility Ultraviolet Disinfection Equipment Installation

DATE: August 24, 2021

BUDGET INFORMATION:

Revenue:	\$2,849,709	FY22 Replace & Upgrade WRF & Equipment
Capital Expense:	\$2,254,715	FY22 Replace & Upgrade WRF Designated Projects
	<u>\$195,219</u>	Expenditures & Encumbrances
	\$399,775	Available for Cedar Creek WRF UV Disinfection Equipment Installation

FUNDING SOURCE: Water & Sewer Enterprise Fund

COMMISSION ACTION REQUESTED ON: October 5, 2021

PURPOSE:

To request the Mayor and Commission:

- A. Approve a work authorization with Western Summit Constructors, Inc. in the amount of \$399,775 for Ultraviolet (UV) equipment installation at the Cedar Creek Water Reclamation Facility (WRF); and,
- B. Authorize the Mayor and appropriate staff to sign all documents related to the work authorization.

HISTORY:

- 1. On July 1, 2008, the Mayor and Commission (M & C) approved an appropriation in the amount of \$38,301,800 for the construction of the Cedar Creek WRF.
- 2. On June 6, 2017, the M&C approved the selection of three on-call engineering firms with the scope of work that included design and construction management to rehabilitate and replace equipment on the facilities.
- 3. On February 2, 2018, the M&C approved an On-Call Water and Wastewater Facilities contract with Western Summit Constructors, Inc.
- 4. On August 4, 2020, the M&C adopted the Infrastructure Element and the Capital Improvements Element of the 2020 Service Delivery Plan (SDP), which included Project #3-339 Cedar Creek WRF - UV.

5. On September 28, 2020, the Public Utilities Department (PUD) issued a Notice to Proceed to Jacobs Engineering to design the second UV channel at the Cedar Creek WRF.
6. In March 2021, Cedar Creek WRF received the Water Reclamation Plant of the Year for 2020 from the Georgia Association of Water Professionals. This award demonstrates that the Cedar Creek WRF is the best wastewater facility, in its category, operated and maintained in the State of Georgia.
7. In April 2021, Cedar Creek WRF received its sixth Platinum award for 11 years of continuous permit compliance.
8. On June 1, 2021, the M&C approved the pre-purchase of the UV equipment for the second UV channel at the CCWRF due to the manufacturers 14 – 16-week timeframe.
9. In June 2021, PUD completed negotiations for the scope of work from the on-call facilities contractor to install UV equipment at the Cedar Creek WRF.

FACTS & ISSUES:

1. When initially designed, the Cedar Creek WRF Project (History #1) included the installation of two UV units in the overall plant operations. One UV unit was installed at the time of construction. Installing a second or redundant UV unit allows maintenance personnel to work on one unit while the other one is in operation. This allows for disinfection in times of excessive flow with the use of both UV channels.
2. The Federal Clean Water Act (CWA) of 1977 (as amended) and the Rules & Regulations of the State of Georgia Chapter 391-3-6 (Water Quality Control) dictate Cedar Creek WRF’s permitted discharge parameters and their limitations. In following these rules and regulations, the PUD chose to utilize UV disinfection technology as it is safer for staff and environmental health than the traditional use of chlorine.
3. Western Summit is the on-call facilities contractor. Western Summit’s total price quote for installation is \$399,775. Of that total, \$196,984 is for electrical, electrical components, automatic valves and system integrator to tie back to the Supervisory Control and Data Acquisition (SCADA) system. The balance of \$202,791 is for labor, material and construction equipment used by Western Summit. The contractors’ work authorization is in line with Jacobs’ cost estimate for UV equipment and installation.
4. Anticipated UV installation schedule:

Purchase Order/Notice to Proceed	November 2021
Project Completion	April 2022
5. This recommendation supports the following Mayor & Commission Strategic Commitments:
 - Healthy, Livable, Sustainable Athens-Clarke County

OPTIONS:

1. Mayor and Commission:

- a. Approve a work authorization with Western Summit Constructors, Inc. in the amount of \$399,775 for Ultraviolet equipment installation at the Cedar Creek Water Reclamation Facility; and,
 - b. Authorize the Mayor and appropriate staff to sign all documents related to the work authorization.
2. Mayor and Commission deny the request.
 3. Mayor and Commission defined option.

DEPARTMENT RECOMMENDED ACTION:

Option #1 a & b

DEPARTMENT: Public Utilities

Prepared by: Hollis Terry IV



August 24, 2021

Hollis Terry IV

Date:

ADMINISTRATIVE COMMENTS:

ADMINISTRATIVE RECOMMENDATION: Option #1 a & b



September 14, 2021

Manager

Date: