



## AGENDA MEMORANDUM

Action Item for the City Council Meeting of August 31, 2021

**DATE:** August 31, 2021

**TO:** Peter Zanoni, City Manager

**FROM:** Kevin Norton, Director of Water Utilities  
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### **Preventative Maintenance and Repair Services for Ultraviolet Disinfection System at Broadway Wastewater Treatment Plant**

#### **CAPTION:**

Resolution authorizing a four-year service agreement with Xylem Water Solutions USA, Inc., of Charlotte, North Carolina, for a total amount not to exceed \$311,756.00, for preventative maintenance and repair services for the Ultraviolet Disinfection System at the Broadway Wastewater Treatment Plant for the Utilities Department, effective upon issuance of notice to proceed, with FY 2021 funding in the amount of \$12,989.83 available through the Wastewater Fund.

#### **SUMMARY:**

This resolution authorizes a four-year service agreement for preventative maintenance and repairs of the Ultraviolet (UV) Disinfection System at the Broadway Wastewater Treatment Plant (WWTP). This service is necessary to extend the service life of the system and reduce costs for unplanned work, such as breakdowns.

#### **BACKGROUND AND FINDINGS:**

The Broadway Wastewater Treatment Plant implemented the UV Disinfection System in 2014 to inactivate/destroy disease-causing organisms as part of the wastewater treatment process. The system consists of three UV channels with two banks of lights, with a total of 972 UV lamps. The plant operates this system 24/7 to remain compliant with the Texas Commission on Environmental Quality (TCEQ) permit requirements.

This agreement will provide spare part supply, preventative maintenance and repair services for the UV System at the Broadway WWTP, and technical support by phone call consulting with factory-trained UV service technicians as needed.

The services in this Agreement require qualified trained factory technicians to perform highly specialized maintenance and troubleshooting beyond the capacity of plant operators. Preventative maintenance is critical to ensure the system is operating at its optimal level. It is economical practice to identify and solve the potential minor issues before they develop into major problems resulting in greater cost for repairs and plant permit violations.

**PROCUREMENT DETAIL:**

This is a sole source procurement. Xylem Water Solutions USA, Inc. is the sole source manufacturer and supplier of the items needed for the UV Disinfection System. There is currently no contract in place for this service.

**ALTERNATIVES:**

An alternative is to not enter into a service agreement, which would require separate procurements on an as-needed basis, potentially reducing the economies of scale pricing secured through a long-term contract, increasing the time delay due to the procurement process, which in turn could increase the system downtime and negatively impact operations, potentially resulting in TCEQ violations.

**FISCAL IMPACT:**

The fiscal impact for the Wastewater Fund in FY2021 is \$12,989.83. The remaining amount will be budgeted in future years through the annual budget process.

**FUNDING DETAIL:**

|                        |        |                              |
|------------------------|--------|------------------------------|
| Fund:                  | 4200   | Wastewater                   |
| Organization/Activity: | 33100  | Broadway Wastewater Plant    |
| Mission Element:       | 064    | Treat wastewater             |
| Project # (CIP Only):  | N/A    |                              |
| Account:               | 530215 | Maint & repairs - contracted |

**RECOMMENDATION:**

Staff recommends approval of this resolution authorizing a four-year service agreement with Xylem Water Solutions, USA, Inc. for preventative maintenance and repairs of the UV System at the Broadway Wastewater Treatment Plant for the Utilities Department as presented.

**LIST OF SUPPORTING DOCUMENTS:**

Price Sheet  
Service Agreement  
Resolution