



AGENDA MEMORANDUM

Action Item for the City Council Meeting July 29, 2025

DATE: July 29, 2025

TO: Peter Zanoni, City Manager

FROM: Wesley Nebgen, Director of Water System Infrastructure
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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, with a service technician in Corpus Christi, in an amount not to exceed \$734,475.60, for preventative maintenance and repair services to the ultraviolet disinfection system at the Broadway Wastewater Treatment Plant for Corpus Christi Water, with FY 2025 funding of \$46,000.00 from the Wastewater Fund.

SUMMARY:

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

BACKGROUND AND FINDINGS:

The Broadway Wastewater Treatment Plant implemented the Ultraviolet (UV) Disinfection System in 2014 to inactivate/destroy disease-causing organisms as part of the wastewater treatment process. UV disinfection is an effective, chemical free, process but requires precise and consistent operating parameters to be effective. 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 parts, preventative maintenance and repair services, and technical support, by phone, 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. under the Local Government Code, Section 252.022(a)(2), (a)(7)(A), and (a)(7)(D) as this procurement (i) is necessary to preserve or protect the public health or safety of the municipality's residents, (ii) is available from only one source due to patents, copyrights, secret processes, or natural monopolies, and (iii) consists of captive replacements parts or components for equipment.

The comparison table below depicts the price increase from the previous agreement. The PM Site Visits have increased each year but the Parts Allowance was also increased by \$100,000.00/year.

Description	2021-2025	2025-2029	Variance	Percentage of Increase
PM Site Visits – 3 visits per year	\$110,046.00	\$134,475.60	\$24,429.60	18%
Parts Allowance	\$200,000.00	\$600,000.00	\$400,000.00	67%

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 Corpus Christi Water for FY 2025 is \$46,000.00 from the Wastewater Fund. 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
Department:	46	Wastewater
Account:	530215	Maint & repairs - contracted
Amount:	\$46,000.00	

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:

Service Agreement
Resolution
Price Sheet