



AGENDA MEMORANDUM

Action Item for the City Council Meeting August 8, 2023

DATE: August 8, 2023

TO: Peter Zaroni, City Manager

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Wastewater Lift Station SCADA System Network Equipment Replacement

CAPTION:

Motion authorizing the purchase of 87 Cradlepoints cellular routers from Turn-Key Mobile, Inc., of Jefferson City, Missouri, through the Texas Department of Information Resources for \$200,513.25, with funding from the Wastewater Capital Fund.

SUMMARY:

This Motion authorizes the purchase of 87 Cradlepoints cellular routers which support the secure network transport of Supervisory Control and Data Acquisition (SCADA) data to the core systems at the Wastewater Lift Stations.

BACKGROUND AND FINDINGS:

The City of Corpus Christi Information Technology (IT) Department has examined the SCADA network equipment at all Wastewater Lift stations and found that the network communications are outdated and beyond end-of-life.

The Cradlepoints being procured from Turn-Key Mobile, Inc. will securely transport data

to the SCADA systems.

PROCUREMENT DETAIL:

Information Technology in conjunction with Finance & Procurement examined other cooperative contracts and service offering to find the most cost-effective option for the City’s purchase of the Cradlepoints. Contracts awarded through the cooperatives have been competitively procured in compliance with Texas local and State procurement requirements. Comparisons between retail pricing, DIR, HGAC, and NIPA cooperatives found the best value with a 24.44% discount from retail using Turn-Key Mobile Inc.’s DIR Contract, with total savings of \$64,855.02.

	List Price	Discount
MSRP	\$265,368.00	
HGAC	\$234,873.03	11.49%
NIPA	\$227,396.25	14.31%
DIR	\$200,513.25	24.44%

ALTERNATIVES:

The Council may choose to continue using the current Wastewater Lift Station SCADA network communications. Since this equipment is outdated and beyond end-of-life, their failure rate will likely continue to increase. The decision to continue to use the existing network communications would leave the city vulnerable to Wastewater reporting outages.

FISCAL IMPACT:

The FY 2023 fiscal impact will be \$200,513.25 from the Wastewater Capital Fund for the replacement of 87 Cradlepoints.

FUNDING DETAIL:

Amount: 200,513.25
Fund: 4259 – Wastewater CIP
Organization/Activity: 89
Mission Element: 46
Project # (CIP Only): 18082A4259EXP-WW Treatment Plants & Lift Station SCADA
Account: 550040

RECOMMENDATION:

City staff recommend approving the motion as presented.

LIST OF SUPPORTING DOCUMENTS:

Price Sheet
Cost Comparison