
City Council Regular Meeting

DEPARTMENT: Public Works
FROM: Errick Thompson, Director
MEETING: January 6, 2025

SUBJECT:

Consider and take possible action of a 12-month sole source purchasing agreement with Asterra USA for water and wastewater leak detection in the amount of \$73,500.00. (*Staff Contact: Errick Thompson, Director of Public Works*)

SUMMARY:

City water and wastewater crews responded to 89 water leaks in FY23-24 and 21 wastewater repairs throughout the 223-mile network of water mains and 226-mile network of wastewater mains in Burleson. As water supply continues to become an even more critical factor in our rapidly growing region, it is incumbent upon local governments and residents to do everything possible to reduce water waste. One way to do that is to identify and address small leaks as soon as possible before they become large leaks and water main breaks. Wastewater leaks can result in significant monetary penalties, so it is important to identify and resolve any potential issues in that infrastructure as quickly as possible as well. Asterra will identify specific areas of interest throughout the wastewater system and those areas will be highlighted for prioritization for further field investigation. The proposed contract includes 40 hours of field investigation that will supplement video camera inspection and smoke testing by staff.

This item seeks approval of a contract with Asterra USA to have the entire water and wastewater networks analyzed using proprietary satellite scans and analysis. This will result in specific points of interest for on-the-ground investigation and confirmation. Using this technology allows the entire systems to be assessed many times faster than traditional leak detection methods. The technology is reported to detect leaks as small as 0.2 gallons per minute.

Asterra USA has been recognized by the American Water Works Association for the innovation of this technology.

The City Legal Department has reviewed the sole source documentation provided by Asterra USA per the City's Purchasing policy, Policy 36.

Asterra representatives informed city staff of potential cost savings due to interest from nearby utilities in using the same satellite scans planned for Burleson's service area. These utilities include the cities of Arlington, Duncanville, and Mansfield, the Bethesda Water Supply Corporation, and the

Johnson County Special Utility District. This collaboration reduces the estimated cost for Burleson by \$14,500 from \$88,000 to \$73,500.

RECOMMENDATION:

Approve a 12-month sole source purchasing agreement with Asterra USA for water and wastewater leak detection in the amount of \$73,500.00.

PRIOR ACTION/INPUT (Council, Boards, Citizens):

N/A

REFERENCE:

N/A

FISCAL IMPACT:

Proposed Expenditure: \$73,500.00
Account Number: 501-70-71-7101-0000-62050
Fund: Water Wastewater Fund
Account Description: Other Outside Services

STAFF CONTACT:

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