



**CITY OF FORT LAUDERDALE
City Commission Agenda Memo
REGULAR MEETING**

#22-0542

TO: Honorable Mayor & Members of the
Fort Lauderdale City Commission

FROM: Greg Chavarria, City Manager

DATE: September 22, 2022

TITLE: Motion Approving Agreements for Water Leak Detection and Monitoring System - FlowNetworx, Inc. d/b/a 540 Technologies and Echologics, LLC., a Subsidiary of Mueller Water Systems - \$119,527 - (**Commission Districts 2 and 4**)

Recommendation

Staff recommends the City Commission approve agreements, in substantially the form attached, for the purchase of Water Leak Detection Equipment, Software and Monitoring Service with FlowNetworx, Inc. d/b/a 540 Technologies (540 Technologies) and Echologics, LLC., a subsidiary of Mueller Water Systems (Echologics) in the initial one year amount of \$76,725 and \$42,802, respectively, and authorize the City Manager to approve two (2), one-year renewal options, in the estimated annual amount \$50,000, for a potential total contract amount of \$219,527, contingent upon appropriate of funds.

Background

The City of Fort Lauderdale is considering implementation of a passive acoustic water leak detection system that would monitor areas of its water system for leaks and notify staff when water leaks are detected. Two separate pilot study geographical areas have been identified for the two systems to continuously monitor for leak sounds. The goal of the study is to determine if either of these systems can be used to reduce water loss and costs associated with such loss through earlier detection and notification, and to provide for a more resilient and efficient water system. Through a competitive proposal process, two (2) proposers, 540 Technologies and Echologics, were selected to demonstrate their leak detection technology. The City will purchase 55 water leak detection units from 540 Technologies and 35 water leak detection units from Echologics, with associated software and monitoring services. The 540 Technologies equipment will be installed in the Harbor Beach neighborhood. The Echologics equipment will be installed in the Central Beach area.

The Request for Proposals (RFP) No. 12619-125 provisions to purchase Leak Monitoring Equipment (data logger, antenna, valve covers, adapters) as a single purchase. The Leak Monitoring Equipment requires annual monitoring services and licensing fees, and

monthly recurring data transmission fees. Pursuant to section 2.34, these recurring fees will commence upon the purchase and installation of the Leak Monitoring Equipment for an initial period of one year. The City reserves the right to extend the Agreement for two additional one-year terms. The total combined annual amount of these recurring fees from 540 Technologies and Echologics are estimated at \$50,000.

The following is the timeline of the solicitation process:

- January 19, 2022 – Issued RFP 12619-125 to solicit competitive sealed proposals for an Acoustic Water Pipeline Leak Detection System technology to monitor, detect, alert, identify, locate, quantify, and report underground leaks of a municipal public water supply pipe distribution network.
- February 23, 2022 – The RFP closed with a total of seven (7) firms submitting proposals: FlowNetworx, d/b/a 540 Technologies; Core & Main; McKim & Creed, Inc.; Echologics, LLC, a subsidiary of Mueller Water Products; Multi-Services Sales Group.; Ferguson Enterprises; and Environmental MD.
- March 28, 2022 – The Evaluation Committee (Committee) initially met with the procurement specialist to evaluate the proposals. The firms were ranked based on the evaluation criteria shown in the table below.

Recurring Monthly Unit Services Fees, Software Fees, Other Charges	15
Vendor Product Communication Software Platform, Interface, Usability	15
Vendor Value Added Services for Leak Detection Assistance	15
Product Functionality, Scalability, Configurability, Use, and Durability	20
References	5
Total Project Cost	30
TOTAL PERCENT AVAILABLE	100%

- The top four (4) proposers were shortlisted and invited to make presentations. On April 27, 2022, the Committee heard presentations and scored on final ranking. The Committee determined the two highest, responsive and responsible ranked firms to be FlowNetworx, d/b/a 540Technologies and Echologics, LLC., a subsidiary of Mueller Water Systems. None of the firms that responded indicated to be a Disadvantaged Business Enterprise (DBE) firm.

VENDOR	RANKING
FlowNetworx, Inc., d/b/a 540 Technologies	1
Echologics, LLC., subsidiary of Mueller Water Systems	2
McKim & Creed	3
Core & Main	4

Resource Impact

There is a fiscal impact to the City in the amount of \$119,527 for the purchase of the water leak detection equipment and first year monitoring fees, services and licensing fees, and monthly recurring data transmission fees. Funds for this purchase, in the total amount of \$119,527, are available in the FY 2022 Operating Budget in the account listed below. Future years' expenditures are contingent upon the approval and appropriation of the annual budgets.

Funds available as of 9/8/2022					
ACCOUNT NUMBER	INDEX NAME (Program)	CHARACTER CODE/ SUB-OBJECT NAME	AMENDED BUDGET (Character)	AVAILABLE BALANCE (Character)	AMOUNT
450-PBS660601-3946	Installation/Repairs Operations	Services/Materials/ Tools/Equip < \$5000	\$816,659	\$768,833	\$119,527
				TOTAL AMOUNT ►	\$119,527

Strategic Connection

This item is a *2022 City Commission Top Priority*, advancing its Infrastructure and Resilience

This item advances the *Fast Forward Fort Lauderdale 2035 Vision Plan: We Are Ready*.

This item supports the *Press Play Fort Lauderdale 2024 Strategic Plan*, specifically advancing:

The Infrastructure Focus Area

- Goal 1: Build a sustainable and resilient community.
- Objective: Proactively maintain our water, wastewater, stormwater, road, and bridge infrastructure.

This item supports the *Advance Fort Lauderdale 2040 Comprehensive Plan* specifically advancing:

- The Infrastructure Focus Area
- The Sanitary Sewer, Water & Stormwater Element
- Goal 3: Develop and maintain an adequate water supply, treatment and distribution system, which meets the existing and projected needs of the service area in an efficient, economical, and environmentally sensitive manner.

Attachments

Exhibit 1 - Solicitation

Exhibit 2 - FlowNetworkx, Inc. d/b/a 540 Technologies Proposal

Exhibit 3 - Echologics, LLC., a subsidiary of Mueller Water Systems Proposal

Exhibit 4 - Tabulation

Exhibit 5 - Agreement FlowNetworkx, Inc. d/b/a 540 Technologies

Exhibit 6 - Agreement Echologics, LLC., a subsidiary of Mueller Water Systems

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