



City of Greensboro

Melvin Municipal
Office Building
300 W. Washington Street
Greensboro, NC 27401

Agenda Report

File Number: 2023-375

Agenda Item# G.8.

Agenda Date: 6/20/2023. **Department:** Water Resources
Meeting Type: Council Meeting **Category:** Consent Agenda

Title: 2023 – 375 Resolution Authorizing the Sole Source Purchase of a Pontoon Vertical Profiler System for the Lake Brandt Water Pump Station Raw Water Intake in the Amount of \$158,000 with Fondriest Environmental, Inc.

Council Priority: Place an ‘x’ in the box.

- | | |
|--|---|
| <input type="checkbox"/> Safest City | <input type="checkbox"/> Most Skilled Workforce |
| <input type="checkbox"/> Easiest Place to Do Business | <input type="checkbox"/> Most Connected City |
| <input type="checkbox"/> Youth Sports Capital | <input type="checkbox"/> Hub of Recreation and Entertainment |
| <input type="checkbox"/> Abundance of Attainable Housing | <input checked="" type="checkbox"/> Other/Admin <u>Infrastructure Improvement</u> |

Council District: 2

Public Hearing: No

Advertising Date/By: N/A

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Contact 2 and Phone: Scott Jewell, 336-373-7900

PURPOSE:

Water Resources requests approval to sole source the purchase of a water quality / contaminant alert monitoring system from Fondriest Environmental, Inc. located in Fairborn, Ohio. City Council approval is required to sole source a purchase under State Public Contracting Statute GS 143-129 (e)(6). State law allows exceptions to the letting of public contracts for the purchase of apparatus, supplies, materials or equipment when standardization or compatibility is the overriding consideration. In this particular case the sole source option was chosen because Fondriest Environmental, Inc. is the only supplier that meets the city’s requirements for an autonomous reservoir water quality and contaminant monitoring system.

BACKGROUND:

In light of the vulnerability of the city’s raw water reservoirs and water treatment facilities, to potential threats and hazards from water quality and contamination events, the need to incorporate additional resiliency and protection measures became evident. A major highway, U.S. Highway 220 North, and a high pressure petroleum pipeline both cross Lake Brandt.

The requested water quality / contaminant alert monitoring system is comprised of a floating pontoon anchored to the bed of Lake Brandt in such a way that it continuously samples and

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reports water quality parameters from waters immediately adjacent to the treatment plant intake. The system is designed both to optimize treatment processes for the Mitchell Water Treatment Plant in response to raw water changes and to provide early warning of contamination events so actions can be initiated to protect the public water supply. Of particular concern to Water Resources is the release of petroleum products, especially considering a high pressure petroleum transfer line owned by Colonial Pipe Line Company crosses portions of the Lake Brandt reservoir. To help increase the ability to detect petroleum spills a hydrocarbon monitoring instrument will be integrated into the contaminant-alert system. Other sensors will be utilized to help monitor for algae blooms which can be potential sources of cyanotoxins, as well as taste/odor issues and other problems that are detrimental to treatment plant processes. The installed sensors and system will continuously measure lake water quality and provide the opportunity to log environmental conditions. This data will in turn allow Water Supply and Stormwater Division staff to better understand the ecology of the lakes and watershed.

BUDGET IMPACT:

Funding is budgeted in a Water Resources Operating Fund account.

ACCOUNT NUMBER:

501-70-7021001.6059

RECOMMENDATION / ACTION REQUESTED:

It is recommended that City Council approve the sole source purchase of a Pontoon Vertical Profiler System from Fondriest Environmental, Inc. in the amount of \$158,000.