



CITY COMMISSION STAFF REPORT

DEPARTMENT: NMB Water - Utilities Department

Agenda Title: Resolution Approving a Task Order for Professional Engineering Services for Norwood-Oeffler Water Treatment Plant Wellfield Condition Assessment. with Hazen & Sawyer in an Amount Not to Exceed \$163,630.00.

CITY MANAGER RECOMMENDATION:

The City Manager recommends approval and authorization of Task Order No. 23 issued to Hazen and Sawyer (Hazen) for \$163,630 to prepare the Wellfield Infrastructure Evaluation and Condition Assessment.

Hazen is one of the consultants approved by the City Commission under Agreement No. RFQ-19-082-MC for Professional Services of Water and Sewer Engineers, meeting the requirements of Florida Statute (FS) 287.055, known as the Consultants' Competitive Negotiation Act (CCNA). Pursuant to FS 287.055(2)(g), a consultant selected through the CCNA process can be awarded a continuing contract for studies not exceeding \$500,000 without additional competition. Hazen's expertise in water/wastewater engineering and prior work with NMB Water, for the past 30+ years and makes them well-suited to prepare this wellfield evaluation and condition assessment. The negotiated price of \$163,630 is deemed fair and reasonable by staff.

BACKGROUND OF ITEM:

NMB Water sources its water from the Biscayne Aquifer and the Upper Floridan Aquifer System (FAS). The Biscayne Aquifer is a shallow, surficial aquifer characterized by high porosity and transmissivity, and has historically served as the primary groundwater source for southeast Florida. The FAS is a deeper (approximately 1,000 feet deep) brackish (i.e., salty) aquifer separated from the Biscayne Aquifer by confining units. The Norwood-Oeffler Water Treatment Plant (WTP) is equipped to treat water from both aquifers using lime softening, nanofiltration (NF), and reverse osmosis (RO) processes. It currently operates 20 raw water supply wells. Sixteen (16) wells are installed in the Biscayne aquifer, and four (4) wells are installed in the Upper Floridan aquifer. The total depths of the Biscayne aquifer wells generally do not exceed 100 feet below land surface (bls), with one exception (Well 12 at 131 feet).

Under this project, Hazen has developed a scope of services to assist with the investigation of current conditions of the raw water supply wells and prepare well-specific rehabilitation plans.

This Task Order will include:

- Investigate existing conditions of all of the City's 20 production wells
- Perform specific capacity testing of each well
- Evaluate water quality parameters of each well
- Summarize hydraulic and water quality results
- Prepare a well-specific rehabilitation plan in a technical memorandum

ALTERNATIVES:

Staff strongly recommends utilizing the services of Hazen as their expertise in hydrology is well known. This evaluation of our wellfield has not been done in recent times and will give us assurance or expectation of the capacity, raw water quality and overall condition of the wellfield. It will also give us a planning document for needed rehabilitation and or possible expansion needs.

FISCAL IMPACT:

There is sufficient funding available in the Water Utility Operating Fund to address the funding needs for this request.

<u>General Ledger Acct. Number</u>	<u>Budgeted Amount</u>	<u>Available Amount</u>	<u>Available After Budget Transfer</u>	<u>New Request Amount</u>	<u>Remaining Amount</u>
410904-535631	\$300,000	\$300,000	N/A	\$163,630	\$136,370

ATTACHMENTS:

1. Exhibit A – Task Order No. 23 and Statement of Work
2. Procurement Explanation Memo