



Date: July 18, 2011

To: Thomas J. Bonfield, City Manager
Through: Theodore L. Voorhees, Deputy City Manager
From: Donald F. Greeley, Director, Water Management
Jerry F. Morrone, Utility Engineering Supervisor
Subject: Construction Contract for the North and South Durham Water Reclamation Facilities Nutrient Analyzers and Weir Covers Contract

Executive Summary

The Department of Water Management received bids on Thursday, June 23, 2011 for the North and South Durham Water Reclamation Facilities Nutrient Analyzers and Weir Covers Contract. The proposed project consists of replacing the final clarifier weir covers and installing new instrumentation which will allow plant personnel to better monitor and control plant nutrient removal processes. These improvements are some of the initial improvements needed to help comply with the Jordan Lake and Falls Lake rules. The project also includes painting the secondary clarifiers and miscellaneous piping at the both plants. A total of 4 bids were received, with Dellinger Construction Company, Inc. being the lowest responsive and responsible bidder.

Recommendation

The Department recommends that the City Council:

1. Authorize the City Manager to execute a contract with Dellinger, Inc. for the North and South Durham Water Reclamation Facilities Nutrient Analyzers and Weir Covers Contract for \$1,558,284.00.
2. Establish a contingency fund for the contract in the amount of \$155,000.00 and
3. Authorize the City Manager or his designee to execute change orders for the contract provided that the cost of all change orders does not exceed \$155,000.00 and the total project cost does not exceed \$1,713,284.00.

Background

The North and South Durham Water Reclamation Facilities are under increasing pressure to meet ever more stringent nutrient discharge limits. The Department completed a Wastewater Reclamation Facilities Optimization Study in 2008 in order to identify the necessary improvements needed to comply with these limits. The Optimization Study was updated in 2009 once the final Falls Lake Rules were approved. As a result, the Department has initiated an enhanced nutrient removal program to reduce the total amount of nitrogen and phosphorous discharged at the plants. The instrumentation and equipment being installed in this contract will allow the plants to better operate and manage the varying plant conditions operators encounter. The weir covers specifically will reduce algae growth and reduce the operational difficulties in controlling the growth of the algae throughout the plant. Additionally, the project includes repairing and repainting of the secondary clarifiers at both plants, as well as, some miscellaneous piping.

Issues and Analysis

The Department received bids on Thursday, June 23rd. The bid results are:

Dellinger Inc.	\$	1,558,284.00
Haren Construction Company Inc.	\$	1,593,000.00
Devere Construction Company	\$	1,615,000.00
TA Loving Company	\$	2,207,000.00

The Department recommends the City Council award the contract to Dellinger, Inc., the lowest responsible and responsive bidder. Two bid alternates items were considered as part of the bid evaluation. Neither item is recommended.

Alternatives

Alternative 1: Do not enter in to a contract with Dellinger, Inc. and do not perform the work. The City would endanger its ability to meet its long term nutrient limits if this project is not completed.

Financial Impact

Funding for this contract was budgeted for the Enhanced Nitrogen Removal Account and the Wastewater Facilities Rehabilitation Account. There are currently funds available in these accounts:

Enhanced Nitrogen Removal	\$1,168,421.00	4100P765-731000-P213A
Enhanced Nitrogen Removal (contingency)	\$ 155,000.00	4100P765-731900-P213A
Wastewater Facilities Rehabilitation	\$ 389,863.00	4100P767-731000-P251W
Total	\$1,713,284.00	

SDBE Summary

The Equal Opportunity/Equity Assurance Department reviewed the bid submitted by Monroe, NC and has determined that they are in compliance with the Ordinance to Promote Equal Business Opportunities in City contracting.

SDBE REQUIREMENTS

The goals for this project were: 0 % M/SDBE and 0 % W/SDBE. There are no M/W SDBE's used on this project.

Workforce Statistics

Workforce statistics for Dellinger, Inc. NC are as follows:

Total Workforce	81	
Total Females	4	5%
Total Males	77	95%
Black Males	13	16%
White Males	43	53%
Other Males	21	26%
Black Females	0	0%
White Females	4	5%
Other Females	0	0%

Attachments

Engineer's Award Recommendation Letter