



Date: May 8, 2012

To: Thomas J. Bonfield, City Manager
Through: Theodore L. Voorhees, Deputy City Manager
From: Marvin G. Williams, Public Works Director

Subject: Amendment to the Contract with AMEC Environment and Infrastructure, Inc. for Atmospheric Deposition Monitoring

Executive Summary

On June 10, 2010 the City Council authorized a contract with AMEC Environment and Infrastructure, Incorporated (formerly MACTEC, Incorporated) for the purchase, installation and 12-month operation of two atmospheric deposition monitoring stations. AMEC completed the installations in 2011 and has been operating a North Station near Durham Regional Hospital and a South Station near Carpenter Fletcher Road. Based on the results of the current monitoring (which ends in June at the North Station), Public Works would like to extend the monitoring at the North Station through October 2012. This is to verify the unusual results from the July to October period of 2011. The Public Works Department proposes an amendment to the existing contract with AMEC Environment and Infrastructure to fund monitoring through October 2012 and an updated summary report.

Recommendation

The administration recommends the City Council authorize the City Manager to execute an amendment to the existing contract with AMEC Environment and Infrastructure to continue atmospheric deposition monitoring at the North station through October 2012 at a cost of \$26,195.00.

Background

In 2010 the City Council authorized a contract with AMEC Environment and Infrastructure, Incorporated (formerly MACTEC, Incorporated) for the design, purchase, installation and operation of two atmospheric deposition monitoring stations. AMEC completed the installations of a North station near Durham Regional Hospital and a South station near Carpenter Fletcher Road in 2011. The North station includes both wet deposition (i.e., pollutants in rainfall) and dry deposition (i.e., pollutants in atmospheric "dust"). The South station includes only wet deposition. The dry deposition monitoring equipment was the last equipment to go on-line, in mid-2011. All monitoring targeted nitrogen and phosphorus, the parameters of concern for the Jordan and Falls Lakes nutrient strategies.

Preliminary results from 8 to 12 months of monitoring indicated that wet deposition results from the North and South station are similar during most periods of the year. The need to continuously operate both stations is minimal during most of the year. Preliminary results also indicate that wet deposition in urbanized Durham is within the same range as wet deposition in rural areas of the Triangle and surrounding counties. Preliminary dry deposition

results at the North station were significantly different than dry deposition in rural areas, in part because all forms of nitrogen were monitored instead of only inorganic forms. Additional data at the North station is needed to verify the results from the summer and fall of 2011 where the most pronounced difference occurred.

The existing contract with AMEC expires in December 2012. However, the funding provided was sufficient for 12 months of wet deposition monitoring at both locations, and 12 months of dry deposition monitoring at the North Station. Additional funds are needed to continue the monitoring through October 2012. This amendment is, therefore, a cost amendment without a time extension.

Alternatives

The alternative is to deny the cost extension and complete the contract as currently written. This would provide the City with insufficient information to negotiate modifications to the nutrient management strategies that leave the City responsible for treating nitrogen and phosphorus coming from atmospheric sources.

Financial Impact

The City of Durham will pay AMEC \$26,195.00 from the FY2012 Public Works operating budget (Organization code 5500L041 Object code 728600).

SDBE Summary

Not applicable to the amendment.

Attachments

Contract amendment