



**Date:** February 18, 2014

**To:** Thomas J. Bonfield, City Manager  
**Through:** W. Bowman Ferguson, Deputy City Manager  
**From:** Donald F. Greeley, Director, Water Management  
**Subject:** Supplemental Article # 5 for Jordan Lake Partnership, Contract with Hazen & Sawyer for Regional Interconnections Study, Phase 2 for the Jordan Lake Partners.

**Executive Summary:**

In March 2008, the City Council adopted a Resolution Supporting Regional Partnerships for Water Supply Planning and the Establishment of a Western Water Intake on the B. Everett Jordan Reservoir. Following that action, a Memorandum of Understanding (MOU) was developed and approved by 12 entities in the greater Triangle area. The MOU establishes Durham as the lead agency for general activities regarding the Jordan Lake Regional Water Supply Partnership (JLP), and allows for Supplemental Articles to the MOU which will define participation by some or all of the partners in further activities. The Partnership has already completed Volume 1 – *Regional Needs Assessment* of the Triangle Regional Water Supply Plan through a contract with the Triangle J Council of Governments. Volume 2 of the *Triangle Regional Water Supply Plan* is near completion and will be used by individual partners to develop their allocation requests for Jordan Lake water. A critical element of the long range plan will be the ability of local water systems to transfer water to and from each other without diminishing their respective capacities to meet customer needs. The hydraulic modeling effort to be conducted by Hazen and Sawyer will evaluate the capacities of existing interconnections to transfer water during extended periods (multi-day) of time. Where feasible, these analyses will include water transfers in both directions. The project will focus on the technical and financial aspects of water transfers among Triangle area systems.

As the fiscal agent for the Jordan Lake Partnership, Durham Department of Water Management staff was directed by the members to develop and execute a contract with Hazen and Sawyer to evaluate the interconnections between the various JLP entities. By mutual agreement of the Jordan Lake Partners as indicated in Supplemental Article # 5, Town of Cary professional staff will manage the technical efforts associated with this task while City staff will oversee contract management. The cost-sharing mechanism is also outlined in the supplemental article.

**Recommendations:**

The administration recommends that:

- 1) The City Council authorize the City Manager to execute Jordan Lake Partnership Supplemental Article #5 and;

- 2) The City Council authorize the City Manager to execute the contract with Hazen and Sawyer for the Regional Interconnections Study, Phase 2 for the Jordan Lake Partners in the amount of \$481,320, and;
- 3) The City Council adopt an ordinance amending the Water and Wastewater Capital Improvement Project Ordinance, Fiscal Year 2013-2014, as amended, the same being Ordinance # 14465 for the purpose of adding funding in the amount of \$500,000.00 to the Jordan Lake Capital project account.

**Background:**

In March 2008, Durham City Council adopted a Resolution Supporting Regional Partnerships for Water Supply Planning and the Establishment of a Western Water Intake on the B. Everett Jordan Reservoir. The City committed to taking a leadership role in a partnership for regional water supply planning and to work with its potential partners in the establishment of a western Jordan Lake water intake and possibly build an associated water treatment facility. Further, the City committed to proceed with the negotiation of Interlocal Agreements to accomplish the activities of the Partnership. The Memorandum of Understanding was approved by Durham City Council at the February 16, 2009 Council meeting and has been approved by 12 additional partnering jurisdictions: towns of Apex, Cary, Hillsborough, Holly Springs, Morrisville and Pittsboro, Chatham County, Orange County, Wake County, Orange Water and Sewer Authority (OWASA), and the cities of Sanford and Raleigh.

As the lead agency, the City of Durham Department of Water Management serves as the Partnership's fiscal agent. Via this mechanism, the Partnership has engaged the services of the Water Resources Planning group at Triangle J Council of Governments to develop a comprehensive regional water supply plan and Fountainworks, LLC to provide meeting facilitation services and administrative and governmental support. Hazen and Sawyer, at the direction of the Partnership, completed the Phase 1 Interconnection Study that supported Volume I *Needs Assessment* of the Regional Water Supply Plan. The work to be completed by Hazen and Sawyer in Phase 2 of the Interconnection Study had been anticipated by the Partnership from the outset. This project will assess delivery capabilities of the water system interconnections and will develop a prioritized list of projects to increase cooperative abilities for these systems to send or receive water during water shortages due to severe drought and/or other operational emergencies.

**Issues and Analysis:**

Hazen and Sawyer has conducted a number of relevant studies for the local entities involved in the Jordan Lake Partnership and due to their knowledge and experience with Triangle water supply systems is especially well suited to conduct this work. Because portions of the necessary data had already been gathered and reported by Hazen and Sawyer, the Partners have recommended retaining them to complete Phase 2 of the Interconnection Study. Further, the partners agreed that no further evaluation of alternate choices was necessary and directed Durham to proceed with developing a contract with Hazen and Sawyer. The Partners also agreed that technical staff with the Town of Cary would manage and direct the technical activities of the contractor.

The scope of work provided in Attachment A meets the needs of the water resource planning efforts and was developed in coordination with the Partners and Hazen and Sawyer.

**Alternatives:**

Alternative 1: Do not enter in to a contract with Hazen and Sawyer and attempt to do the work with personnel provided by the Partners. Because none of the Partners have the technical resources to conduct this important evaluation of the systems' ability to move water effectively, this critical component of the Regional Water Supply Plan would not be completed. Failure to include this study as an element of the plan could negatively influence the State's decision about granting additional Jordan Lake water supply allocations to requesting Partners.

Alternative 2: Select another consultant to conduct this project. The Partners believe that soliciting and evaluating alternative proposals from other consultants would significantly delay this important project and would be unlikely to yield any proposals that were competitive in cost and quality with Hazen and Sawyer's.

**Financial Impacts:**

Funds for this contract are budgeted in the Jordan Lake Capital Projects account 4100P007.731004.P0610; funds will be transferred per the ordinance amendment to accomplish project. The total amount of the contract is \$481,321 however the City of Durham's share is \$76,809. According to the supplemental agreement, the City shall be reimbursed for the remainder of the amount by participating members of the JLP.

**SDBE Summary:**

No SDBE goals are required for this project.

**Attachments**

Supplemental Article #5, Regional Interconnections Study, Phase 2  
Contract with Hazen and Sawyer for Regional Interconnections Study, Phase 2  
Scope of Services for Hazen & Sawyer Contract – Attachment A  
Insurance Requirement for Hazen & Sawyer Contract – Attachment B  
Ordinance to Amend Water & Wastewater Capital Improvement Project Ordinance  
FY13-14