

Water and Sewer Authority of Cabarrus County

FY 2021 - 2022 Master Plan

Request for Qualifications

The Water and Sewer Authority of Cabarrus County (WSACC) invites qualified firms to submit a Statement of Qualifications (SOQ) for consideration of providing professional services for the FY 2021-2022 WSACC Water and Wastewater Master Plan.

This project will involve the review and utilization of pertinent information from previous studies/planning documents, which include the Concord/Kannapolis IBT Certificate and its supporting Environmental Impact Statement, the RRRWWTP Process and Hydraulic Rerating Evaluation, the (previous) WSACC FY 2012/2013 Master Plan, the Rocky River Regional WWTP Phase 3 Expansion to 30 MGD Preliminary Engineering Report, recent studies performed for WSACC by various engineering consultants, and other studies and land use changes that have occurred. The Master Plan will need to incorporate a broad spectrum of water and sewer services for Cabarrus County and the overall region, not only in the transmission/treatment areas, but also in the overall raw/finished water management and water reuse areas.

The purpose of this project is to update, improve, and establish realistic planning information relating to existing and future water and wastewater infrastructure needs within Cabarrus County and WSACC's greater service area, including those needs associated with current and projected future contributions from Charlotte Water. In particular, this effort should result in establishing the necessary flow values and obtaining the National Pollutant Discharge Elimination System (NPDES) permit necessary for expansion beyond 34 million gallons per day (MGD) for the RRRWWTP, as a design-build project is currently under way to expand the RRRWWTP to 34 MGD. Overall, the Master Plan effort will involve determining the impact that existing and updated area land use plans and other relevant developments will have on overall growth and water/wastewater utility needs in the future. The overall planning period for the Master Plan should be approximately 20-25 years, with the major emphasis being placed on next 10-15 years.

The Master Plan will need to refine and update the WSACC Capital Improvement Program (CIP), and determine major utility infrastructure treatment/transmission projects that will be needed to accommodate anticipated future growth needs. The CIP should clearly differentiate between identified WSACC and member jurisdiction infrastructure projects. The Master Plan must make the best use of current and historic data that is available in order to meet WSACC's goal of realistically anticipating and projecting future water and wastewater infrastructure needs. In addition, the Master Plan needs to include actual availability of water to Cabarrus County and development/growth rates experienced in the Cabarrus County and greater service areas in which WSACC interacts and serves.

Listed below are a number of goals that should be considered when developing an SOQ for consideration for this project:

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1. Develop rational and realistic parameters for projecting future water/wastewater demands. The projected water and wastewater flows must be based on actual trend data and realistic projected growth data. Include identification of anticipated Charlotte Water requests for additional capacity.
2. Incorporate established IBT allocations, and adopted County/Jurisdictional land use plans in projecting future population/growth for the WSACC Service area. This will include an update/verification of the “safe yield” for the existing raw water reservoirs located in Cabarrus County.
3. Incorporate population projections to estimate the sustainability of the existing water supply sources (including IBT) for Cabarrus County. In effect, project sewer treatment capacity to the available water supply for Cabarrus County and the possible wastewater capacities needed for WSACC's greater service area. This should be compared to what is projected based on existing land use plans for the planning period.
4. Based on projected water/wastewater demands, work with WSACC, member jurisdictions, NC Department of Environmental Quality (DEQ), and other relevant agencies to obtain NPDES permit(s) needed for further expansion of existing WSACC facilities, specifically including an NPDES permit for expanding the RRRWWTP beyond 34 MGD.
5. Based on historical data, recent flow acceptance data, projections from member jurisdictions, and other relevant sources, develop a list of CIP projects for major treatment and transmission needs. The projects identified should differentiate between future WSACC "wholesale/bulk regional" type CIP projects and member jurisdictional type CIP projects.
6. Develop a flexible approach for determining when CIP projects are needed and establish appropriate “triggers” that can be used to adjust timing of these future utility needs. Develop and organize the Master Plan document in such a way that it can be easily used and adjusted as a reference document for WSACC and its member jurisdictions.
7. Based on the identified WSACC CIP projects, provide required information for WSACC to update the WSACC “System Development Fee” methodology.
8. Identify and develop criteria for further extending water supply capacity capabilities for Cabarrus County by utilizing water reuse options, other new/evolving technologies, or potential future IBT.
9. Incorporate participation from representatives from WSACC member jurisdictions, both in the formulation of the final Master Plan document and in the presentation to WSACC’s member jurisdictions.

Submission Requirements

Five (5) copies of information outlining qualifications and experience must be submitted to WSACC before **2 pm on November 30, 2021**. At a minimum, this submittal of qualifications shall include the following:

1. Name, address of the firm(s) that comprise the project team
2. Brief history of the firm(s)
3. Resumes of key personnel to be assigned to the project
4. Relevant experience of the project team members, including experience working with WSACC, Cabarrus County and/or municipalities within the county

Each qualifications and experience submittal shall be limited to 30 single-sided pages (or 15 double-sided pages) not including the cover letter, cover, back, or dividers/tabs. Minimum font size shall be 11 pt.

WSACC may request formal interviews with firms following review of the SOQ submittals.

Please contact Chad VonCannon (WSACC Engineering Director) at 704-786-1783, ext. 224, or at cvoncannon@wsacc.org, with any questions.