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April 8, 2024

Effingham County Board of Commissioners
Tim Callanan
County Manager
804 South Laurel Street
Springfield, GA 31329

RE: Engineering Evaluation of the Effingham County Water Treatment Plant

Dear Mr. Callanan:

Thank you for the opportunity to submit a proposal for the **Engineering Evaluation of the Effingham County Water Treatment Plant (WTP)**. Our team is composed of professionals committed to meet your needs and the goals for that will be established for the project. We have prepared this proposal for your review and look forward to working with you throughout this evaluation.

In accordance with our conversations, we have the following understanding of the Project Scope and the primary work items requiring our involvement:

PROJECT SCOPE:

Currently Effingham County purchases water from the City of Savannah. Effingham County desires assistance on determining the feasibility for building a new plant versus purchasing water from Savannah. If feasible, Effingham County needs assistance in developing a Source Water Assessment Plan, Design Development Report, and associated regulatory permits to move to detailed design of a new intake and treatment facility. GMC will approach this in two phases with Phase I addressing feasibility and Phase II occurring if determined feasible.

GMC will perform the orange and bold tasks associated with Phase I below which will be incorporated into the evaluation if the results prove to be feasible. The following tasks are as follows: Kick-off Meeting, Development of Stakeholder Strategy, Review Water Model, Conduct meeting with EPD, Develop permitting requirements and schedule, Develop and define planning window, Review/update population and demand projections, Perform site selection, Perform feasibility analysis comparing buying water versus building by evaluating two options/cost models, and Feasibility Workshop. The estimated time complete Phase I is **7 weeks** after the commencement of Task 1 as identified below.



A. SCOPE:

Below is the scope as we understand it:

Phase I: Study/Preliminary Engineering

Task 0 - Project Management

Project management shall consist of all meetings associated with the scope of work. GMC will perform the following Project Management tasks:

- **Kick-off Meeting**
- **WS0: Feasibility Workshop**
- WS1: Stakeholder Workshop
- WS2: Distribution
- WS3: Source Water Workshop
- WS4: Demand Projections and Capacity Workshop
- WS5: Treatment Technology
- WS6: Regulatory
- WS7: DDR

Task 1 - Community Engagement

Community Engagement shall include providing assistance/support to Effingham County engaging with the community to inform those about the pursuit of a new water treatment plant and intake. GMC will perform the following Community Engagement tasks:

- **Development of Stakeholder Strategy**
- Stakeholder involvement
- Public/Stakeholder Involvement
- Development Technical Memorandum 1
- Delivery of Technical Memorandum 1

Task 2 – Distribution

Distribution shall include the appropriate raw water and transmission mains. GMC will perform the following Distribution tasks:

- Review, validate, update existing water model
- Perform alternatives analysis of site locations and distribution routes
- Development Technical Memorandum 2
- Delivery of Technical Memorandum 2

Task 3 - Source Water Assessment

Source Water Assessment shall include activities associated with maintaining the water quality of the Savannah River. GMC will perform the following Source Water Assessment tasks:

- **Conduct meeting with EPD**
- Develop Source Water Assessment Plan
- Perform water sampling and water analysis will be covered as an allowance
- Develop Engineering Report per EPD
- Development Technical Memorandum 3
- Delivery of Technical Memorandum 3



Task 4 - Demand Projections and Capacity Analysis

Demand Projections and Capacity Analysis shall include the review of existing and development of projected water demands and performing cost-benefit analysis for the planning horizon. GMC will perform the following Demand Projections and Capacity Analysis tasks:

- **Develop and define planning window**
- **Review/update population and demand projections**
- **Perform site selection**
- **Perform feasibility analysis comparing buying water versus building by evaluating two options/cost models**
- Develop and define future demands
- Development Technical Memorandum 4
- Delivery of Technical Memorandum 4

Task 5 - Treatment and Piloting

Treatment and Piloting shall include review of water treatment technologies and performing studies to determine the treatability of the raw water source. GMC will perform the following Treatment and Piloting tasks:

- Perform treatment technology review
- Develop a plan for treatability or piloting
- Piloting selection (if required)
- Develop capital and operational cost estimates
- Development Technical Memorandum 5
- Delivery of Technical Memorandum 5

Task 6 - Regulatory

Regulatory activities shall include determining the permitting requirements to construct the project. GMC will perform the following Regulatory tasks:

- **Develop permitting requirements and schedule. Permits anticipated to be required shall include: SWWP, USACE, ESA (Wetland, Endangered Species, USFW, Cultural, SHPO), and EPD**
- Determine additional environmental documentation and permitting requirements based on specific project location and project funding
- Development Technical Memorandum 6
- Delivery of Technical Memorandum 6

Task 7 - Design Development Report

Design Development Report shall be the basis of design for the project. GMC will perform the following Design Development Report tasks:

- Development of Design Development Report
- Receive and address comments
- Development Final Design Development Report
- Delivery of Final Design Development Report



B. ASSUMPTIONS/EXCLUSIONS:

Assumptions:

- One water source is being evaluated
- Piloting is included in the schedule (duration is unknown),
- Minimum of 6 months of sampling is required
- The existing water model is in working order to draw conclusions regarding required improvements

Exclusions:

- Site survey
- Geotechnical investigation
- Site selection consulting (appraisal, realty)
- Piloting rental, installation, and management
- Resiliency evaluation (climate change, severe weather, sea level rise)
- Field delineation of waters of the U.S.
- Surveys for protected species
- Surveys for cultural/historic resources
- Modeling or FEMA coordination related to potential impacts to floodplains
- Design and construction

Separate costs will be provided to perform these services once the specific proposed project area has been determined.

B. COMPENSATION:

We propose performing the work illustrated above under the “Scope of Services” section in accordance with the attached cost estimate breakdown.

Phase I	Basic Services Fee
Task 0 - Project Management	\$12,000
Task 1 - Community Engagement	\$2,000
Task 2 - Distribution	\$0
Task 3 - Source Water Assessment	\$5,000
Task 4 - Demand Projections & Capacity Analysis	\$18,000
Task 5 - Treatment and Piloting	\$0
Task 6 - Regulatory	\$0
Task 7 - Design Development Report	\$0
Expenses	\$0
Total	\$37,000

Phase II	Basic Services Fee
Task 0 - Project Management	\$56,300
Task 1 - Community Engagement	28,400
Task 2 - Distribution	\$41,500
Task 3 - Source Water Assessment	\$137,100
Task 4 - Demand Projections & Capacity Analysis	\$12,500
Task 5 - Treatment and Piloting	\$33,000
Task 6 - Regulatory	\$26,400



Task 7 - Design Development Report	\$24,800
Expenses	\$12,000
Total	\$372,000

The basic services fees are lump sum and will be invoiced monthly as work progresses.

	Allowances
Task 3 - Water Quality Analysis	\$50,000
Total	\$50,000

PAYMENT TERMS:

Professional services will be invoiced monthly in accordance with the status of the work. Payment is due 30 days from the invoice date, and is consider past-due thereafter. Past-due invoices will accrue interest at a rate of one percent (1%) per month.

C. PROJECT SCHEDULE:

We propose performing the work illustrated above under the “Scope of Services” section in accordance with the schedule duration breakdown below.

	Estimated Duration
Task 1	19 weeks
Task 2	13 weeks
Task 3	37 weeks
Task 4	26 weeks
Task 5	35 weeks
Task 6	35 weeks
Task 7	11 weeks
Total	63 weeks

We approach each project with a professional level of diligence, and we strive to maintain our schedule commitments. However, from time-to-time circumstances outside of our control will influence project schedules. Schedule risks are existing water model quality (Task2), SWAP approval (Task 3), EPD required water sampling (Task 3), Piloting (Task 5), Permitting (Task 6).

We will commence **Task 1** work on May 13, 2024 if receiving the signed agreement prior or 14 days after receiving the signed agreement.

We appreciate the opportunity to work with you over the course of this project, and trust our proposal is consistent with your expectations. Please feel free to contact me at your convenience to discuss the terms of this proposal and any questions or concerns you may have.



Sincerely:
GOODWYN MILLS AND CAWOOD, LLC.

James C. Vaughn, P.E.
Engineering Market Leader