



BRUNSWICK – GLYNN COUNTY  
JOINT WATER & SEWER COMMISSION

REQUEST FOR QUALIFIED CONTRACTORS

FOR

WASTEWATER COLLECTION AND TRANSMISSION SYSTEMS  
PREVENTATIVE MAINTENANCE SERVICE PROGRAM FOR ODOR,  
CORROSION AND FOG CONTROL

## **1. GENERAL INFORMATION:**

A Request for Qualified Contractors (RFQC) is being solicited by Brunswick – Glynn County Joint Water & Sewer Commission (JWSC/Owner) from qualified contractors for odor/corrosion and fat/oil/grease (FOG) control services for the preventative maintenance program. The JWSC is charged with the responsibility, through its Asset Management program and Public Health and Environmental Protection Programs to prevent sewage overflows, maximize the useful life of its sanitary sewer system infrastructure, minimize operational/maintenance costs and mitigate the occurrence of offensive wastewater odors in its public sanitary sewer transmission systems. To achieve these goals the JWSC must fund and maintain a preventive maintenance program capable of controlling, within defined parameters, sulfides that cause odor and increased corrosion rates and mitigate systemic fat, oil and grease (FOG) problems in lift station and sewer lines.

Achieving this goal, consistently requires the handling of a diverse mix of chemicals and biological products and a level of technical expertise and attention beyond the capabilities of usual maintenance and operational staff.

The JWSC has need for a turn-key service provider to develop, operate and maintain an adequate wastewater corrosion/odor control and systemic FOG program within its sanitary sewer collection and transmission systems. The JWSC recognizes that certain levels of hydrogen sulfide gases in the vaporous form cause deterioration of concrete and metal components within sewer infrastructure resulting in the corrosive deterioration responsible for premature failure of critical infrastructure and the costly rehabilitation and/or replacement of pumping systems, force mains, gravity lines and manholes, and also, higher numbers of customer odor complaints. The successful Proposer will be expected to monitor and be aware of industry advances in the areas of hydrogen sulfide corrosion and FOG mitigation and be capable of advising the JWSC on such advancements that may be capable of increasing performance and/or reducing the costs of current products and/or technologies being used.

### **1.1 Hydrogen Sulfide Control Program**

Based on years of testing and observation in the JWSC systems, it has been established that detrimental levels of hydrogen sulfide gases in the vaporous form are highly probable where hydrogen sulfide in the dissolved form exceeds 2mg/L and ORP falls below -50 mV. Therefore, the objective of the hydrogen sulfide control program shall be to maintain wastewater flows in treated basins to these target/performance parameters.

### **1.2 Systemic FOG Program**

The objective of the systemic FOG mitigation program is to reduce the accumulation of FOG in problematic sewer basin lift stations and gravity sewer pipes by developing a basin infrastructure biomass capable of digesting FOG constituents in wastewater rather than reducing them to water, oxygen and other helpful bacteria are not acceptable.

## **2. METHOD OF DELIVERY:**

The project will be delivered April 1, 2015

## **3. PROJECT DESCRIPTION:**

The sanitary sewer system includes three (3) waste water treatment plants, located at Academy Creek in the City of Brunswick, near I-95 Exit 29 in Glynn County, and on St. Simons Island. Each plant has its own sewer collection system. The sewer collection systems operate under the gravity flow method, and include a total of 156 lift stations, 486 miles of collection sewer lines and 90 miles of sewer force mains. The sewer system serves 90 percent of the area within the city limits, and 35 percent of the county. Jekyll Island and Sea Island operate their own sewer systems and Sea Island sewage is discharged to the St. Simons Island water pollution control plant. All other areas of the county not served by the JWSC sewer systems are served by individual septic systems.

## **4. SCOPE OF WORK:**

The scope of work for this project will include:

### **4.1 General**

The Contractor shall provide all supervision, labor, materials and equipment necessary to complete in a safe and professional manner for the following task:

- a. The Contractor shall deliver additive (s) to established and newly identified dosing locations within the collection system. The Contractor shall be responsible for each automated site location, and site preparation including grade leveling, installation of metering equipment and reservoir tanks as required.
- b. The Contractor shall be responsible for keeping an adequate inventory of additive in all storage vessels in order to provide for uninterrupted operation. The additive shall be delivered by bulk tanker trucks (or other cost effective means of transportation) designed and licensed to transport the material and stored on site in doubled wall vessels appropriate to the chemical being staged and meet all necessary criteria for spill prevention and containment consistent with applicable laws.
- c. The Contractor shall be responsible for all shipments to the established dosing locations.
- d. The Contractor shall respond to an emergency situation or failure of their systems within **eight (8) hours** of the occurrence.
- e. The Contractor shall provide adequate housekeeping services of the Contractor's equipment and process areas in order to maintain site aesthetics and a clean working environment.
- f. The Contractor shall provide all tanks, pumps, controllers and any related equipment required to provide odor and corrosion and FOG control to all automated treatment systems. The equipment must meet OSHA safety

- standards and be capable of consistent and reliable service that will allow for the proper handling, feed and flow proportional control of the product dosing.
- g. The Contractor shall be responsible for all direct correspondence/reporting to the JWSC and shall not delegate communication responsibilities to anyone including sub-contractors, consultants or manufacturers. Any information required to be submitted shall be the direct responsibility of the Contractor.
  - h. The Contractor shall protect any adjacent equipment, piping and utilities, electrical components, structures, fencing and landscaping within the area of the Contractor's operations. The Contractor will be held responsible for any damage to **JWSC** or private equipment and property caused by lack of knowledge, carelessness, neglect, abuse, or misuse by unqualified and/or unlicensed personnel under their charge. Any damage to equipment, piping, electrical systems, structures, fencing and landscaping caused by the Contractor's operations shall be repaired to original or better condition at no cost to **JWSC**.
  - i. The Contractor shall prior to delivery and use, provide a Material Safety Data Sheet and product process information for all chemical and/or biological products intended for use in the JWSC system. The product process information shall include the complete physical and chemical process description for the material, including the maximum concentration of contaminants and applicability to system treatment. The Contractor shall provide a statement to the JWSC attesting to the belief, in their studied opinion, that the additive is free from harmful extraneous effects to the treatment process, wastewater plant or bio-solids as evidenced by permit compliance, bio-solids reuse or disposal and bio-monitoring testing or bio-solids production if used in accordance with their program.
  - j. The Contractor shall insure that the product or precipitant of the product being used will not cause an adverse deposition of settleable solids in pumps, wet wells, transmission lines or waste treatment plant facilities and must not interfere with or reduce the efficiency of waste sludge dewatering at any wastewater treatment plant. The Contractor will be held responsible for the removal of such depositions if they occur in quantities not normal or unusual to the conveyance of sewage in their treatment area or areas downstream from their treatment areas.
  - k. The Contractor shall execute all work, including establishing, procuring, manufacturing, transporting and delivery, storage, chemical usage and operational safety, in strict accordance with all local, state and national codes, ordinances, and regulations governing the work.
  - l. The Contractor will maintain ownership of all equipment used in the operation, maintenance and control of the program throughout the duration of the agreement period. All maintenance, repair and replacement of chemical storage and control equipment will be at the Contractor's expense.

- m. The Contractor or his qualified assignee shall participate in annual operator training for JWSC personnel who may work in proximity of the Contractor's treatment sites and/or be responsible for the maintenance of manual feed sites.
- n. The Contractor shall be responsible for the proper labeling of storage tanks in compliance with the local, state and federal requirements.
- o. The Contractor shall be responsible for providing an electronic format, suitable to the JWSC, for transmission of service reports, inventory tracking and trending analysis. Such information shall be capable of being provided through a **WEB** page or by email to JWSC staff. The Electronic reporting method, capabilities and structure shall be specifically detailed in the proposal.

**4.2 Hydrogen Sulfide Control Program**

- a. The Contractor shall manage and operate the hydrogen sulfide control program in such a manner as to control the occurrence of this wastewater constituent to the following parameters, as calculated on a fourteen (14) day running average.

Hydrogen Sulfide	Dissolved Sulfide	ORP	pH
50 ppm or less	2 ppm or less	-50 to +200mV	6.8-.4 standard units

- b. The Contractor shall conduct the hydrogen sulfide parameters testing and site servicing on a weekly basis for the initial three (3) months of the program, or until results within established parameters are stabilized, then bi-monthly thereafter. Back-to-back bi-monthly reports of sampling results in excess of established parameters, after the stabilization period, will mandate a return to weekly sampling of the non-compliant site or sites until such parameters are stabilized within target values.
- c. The Contractor shall provide a detailed digital report following each service visit. The digital report shall be emailed to, or made available through a web based program after email notification of report availability, to the JWSC within **forty-eight (48) hours** of each site visit. Minimum report content shall include vapor and dissolved sulfide reading, pH, ORP, wastewater temperature and reporting site current chemical inventories, changes or adjustments to feed rates and any other conditions or actions taken related to the operation of the odor/corrosion control program.
- d. The Contractor shall maintain ongoing corrosion studies using industry standard untreated mild steel coupons at targeted downstream treatment discharge sites identified by the JWSC. Additional coupon staging sites may be added as new treatment sites are identified and included in the program scope. The corrosion evaluation shall be reported at **ninety (90) day** intervals from placement and reported with **ten (10) days** of receipt of laboratory data.

#### **4.3 Systematic FOG Mitigation Program**

- a. The contractor shall routinely observe and report on downstream FOG treatment discharge sites identified in the program on each service visit.
- b. As an integral part of managing and operating the systemic FOG mitigation program, the Contractor shall reliably perform the following tasks:
  - Examine lift stations and/or collection systems referred to by **JWSC** staff for evaluation of FOG issues and make recommendations for products and dosages to mitigate the problems experienced.
  - Obtain FOG samples of proposed treatment site influent and discharge site influent to establish baseline values prior to treatment. Such baseline values shall be used by the **JWSC** and the Contractor to evaluate treatment efficacy.
  - Maintain an awareness of lift station clean out frequency and/or gravity sewer line cleaning by the **JWSC** maintenance staff in treatment areas, so as not to mistake cleaning activities as chemical or biological product efficacy.

#### **5. SUBMITTAL REQUIREMENTS**

The proposer is to provide adequate information that will render it qualified and capable of effectiveness in accomplishing the program services. The proposal will be reviewed by the **JWSC's** Evaluation Team who will grade and rank each proposal as qualified or not qualified. Since there is no assurance of the Proposers having any other opportunity to communicate its ability, the proposals must negate any ambiguity with respects to the Proposer's ability and approach. **PLEASE LABEL ON THE OUTSIDE OF ENVELOPE "RFQC-WASTEWATER COLLECTION ODOR, CORROSION, FOG"**

**5.1 Proposers Qualifications:** A qualified company shall be a Contractor having been established in the business of odor and corrosion control for at least ten (10) years providing services similar to those described within this request. Proposers must provide their firm's number of continuous years in operation. All things being equal, partnerships subsidiaries, mergers, and similar corporate arrangements, which collectively can satisfy the ten (10) years' experience but with a division who independently can satisfy the ten (10) year experience requirement will also be considered. It is incumbent on the Proposer to clearly explain the relationship between these different entities and the Corporation responding to the RFQC.

**5.2 Management/Operations Team:** A qualified firm shall be a Contractor having a Program Representative, in direct responsible charge of day-to-day operations, who is knowledgeable in the management and treatment of odor/corrosion and FOG issues and with direct experience with municipal wastewater collection and transmission systems, sampling and testing procedures. Demonstration of direct experience with municipal wastewater systems shall be demonstrated through the presentation in the proposal of a

resume and an active Wastewater Collections Systems Operator License or Class I Wastewater Treatment Plant Operator License in Georgia, or an equivalent class of license.

A qualified company shall be a Contractor having experienced chemical engineers and/or biologists within their firm or associated with them through the manufactures of the products used in the performance of these services. Such professionals shall be enumerated by resume within the proposal. A qualified company shall be a Contractor having experience service technicians servicing the account who are capable of operating, maintaining and repairing the equipment being used in the program and trained in the operation of testing equipment to be used in the monitoring of stated parameters and capable of taking proper wastewater samples for laboratory analysis. Such team members shall be enumerated by resume within the proposal.

**5.3 Management Philosophy:** This part will contain the Proposer's management philosophy in relation to, Personnel, operations, cost control and responsiveness to **JWSC** concerns. This service is envisioned and a joint effort between **JWSC** operations and the Contractor in the attainment of short term and long term objectives. Close contact and coordination between **JWSC** staff and the Contractor regarding issues and findings, and a free flow of pertinent information will maximize benefits and provide for cost effective and efficient decisions and operations in the joint efforts of both parties.

**5.4 Implementation Plan:** This part will contain the Proposers detailed implementation plan consisting of a schedule for equipment acquisition, installation, placement into service, prediction of stabilization time within target parameters and organization chart of key personnel to include management structure.

Identify the lead program representative and other participating technicians and describe the relevant experience of these individuals. Include a summary of the degree of involvement of arch person identified to this project, identify similar projects that have been undertaken by the participating representatives and describe their involvement.

**5.5 Company Experience:** This part will contain the Proposer's particular experience history with other Clients providing contact name, address, telephone number, facsimile number (if available), scope of services and other relevant data as outlined in the Proposer's Qualification Section.

**5.5.1** Provide a list of projects in which the Proposer's has been terminated or replaced on similar projects and provide an explanation for such action.

**5.6 Subcontractors:** The Proposer shall provide a list of subcontractors by name and address which the Proposer intends to use during the life of the contract. If names are not available, the Proposer must list services to be subcontracted out.

It is the **JWSC's** intent to evaluate the proposals based on its relative significance to the success of the program. It is the intent of the **JWSC** to choose the Contractor (s) provides the highest value to the **JWSC**. The **JWSC** reserves the right to waive any irregularities, reject any and/or all proposals when, in the **JWSC's** opinion, such rejection is in the best interests of the **JWSC**.

Qualifications submittals must be typed on standard (8 1/2 x 11) paper. Expensive covers and/or packaging are not encouraged. Cost of this production is considered cost of doing business and are **non-reimbursable**. The pages of this qualification submittals must be numbered. A table of contents, with corresponding tabs in the body of the submittal, must be included as well to identify each section. Placing multiple tabs on a single page is acceptable. If more than one item in the table of contents can be started on the same page, you may do so and place all corresponding tabs on that page. Any affidavits called for may be included in an appendix.

**PLEASE NOTE: THIS IS A TENTATIVE SCHEDULE AND JWSC RESERVES THE RIGHT TO ADJUST.**

**TENTATIVE PROJECT SCHEDULE**

1. Post RFQC	Aug. 12, 2014
2. RFQC due	Sept. 12, 2014
3. Issuance of RFP	Oct.9, 2014
4. Pre-proposal meeting	Oct.23, 2014
5. Deadline for inquiries	Nov. 6, 2014
6. Deadline for receipt of RFP's	Nov. 13, 2014
7. Selection of short list for interviews	Dec. 2, 2014
8. Interviews/Selection of Contractor	Dec. 16, 2014
9. Award of contract/Contract signing complete	January, 2015
12. Start of contract	April, 2015

All inquiries concerning this RFQC should be in writing/email and directed to **Drexal D. Paulk at [dpaulk@bgjwsc.org](mailto:dpaulk@bgjwsc.org)**.

**SUBMIT RFQC RESPONSES TO:**

**Drexal D. Paulk  
Director of Procurement  
Brunswick – Glynn County  
Joint Water & Sewer Commission  
700 Gloucester Street, Suite 300  
Brunswick, Georgia 31520**



