



**EVENT #3941**

**BIOXIDE – WATER & SEWER**

**SECTION IV**

**SPECIFIC SPECIFICATIONS AND SPECIAL CONDITIONS**

- 4.0 The purpose of these specifications is to establish an annual contract for the City of Savannah to purchase the Bioxide (calcium nitrate) material required under these specifications that will be used to remove hydrogen sulfide, thereby preventing odor and corrosion within wastewater collection and treatment systems. The material shall utilize and enhance naturally occurring biochemical processes to accomplish hydrogen sulfide removal.

To submit pricing electronically for this event, enter pricing for each line item shown under the lines tab on the event summary. To enter pricing manually, complete the attached bid proposal form. Bids must be submitted on the bid proposal forms contained in these specifications in order to be considered.

A pre-proposal conference has been scheduled to be conducted at the Purchasing Department, Third Floor, City Hall, 2 East Bay Street, Savannah, Georgia 31401. This meeting will allow contractors to discuss the specifications and resolve any questions and/or misunderstandings that may arise with city staff. You are invited to attend.

- 4.1 The material shall be a liquid phase product. It shall be delivered, stored, and fed into the wastewater via standard liquid-phase chemical handling procedures.

- 4.2 The material shall be fully compatible with storage and feed equipment constructed of any of the following:

4.2.1 High density crosslinked polyethylene

4.2.2 Polyvinyl chloride (PVC)

4.2.3 Polypropylene

4.2.4 Fiber reinforced polymer (FRP)

4.2.5 Stainless steel (316)

- 4.3 Supplier/Services

4.3.1 The City of Savannah is seeking a supplier to provide the solution of Bioxide and the technical expertise to apply it in the most economical manner possible. The successful supplier shall be recognized and established in the field of wastewater odor control. The supplier must provide a list of ten (10) references currently using the material for control of hydrogen sulfide and other compounds. The list shall contain telephone numbers and contact names. At least five (5) of these references must have used the material for three (3) or more

years. Please list references on Attachment No. 1 provided. Bids submitted without this information will not be considered.

- 4.3.2 The supplier shall provide initial feed rate optimization services for all locations in the City collection system where it is applied.
- 4.3.3 The supplier shall respond in less than 48 hours to correct performance problems.
- 4.3.4 The supplier shall have at least two (2) distribution centers from which product can be shipped. The addresses of these facilities must be provided with the bid submittal. Please list addresses on Attachment No. 1 provided. Bids submitted without this information will not be considered.
- 4.3.5 The supplier shall be capable of manufacturing and providing complete storage and feed systems for the material. These systems shall include storage tanks, feed pumps and control panels. The supplier shall be an Underwriters Laboratories Listed manufacturer of Enclosed Industrial Control Panels.
- 4.3.6 If, during the course of this contract, the City requires additional feed locations, the supplier shall provide survey services to identify the problem and shall provide recommendations for correcting the problem.

#### 4.4 Bid Submittals

Suppliers shall include the following information with their bids:

- 4.4.1 Material Safety Data Sheet for the material, showing the Chemical Abstracts Service (CAS) number of the material.
- 4.4.2 Reference list as described under paragraph 4.3.1.
- 4.4.3 List of material distribution points as listed in paragraph 4.3.4. A minimum of two shipping locations must be listed and one shipping point being within a 200 mile radius of Savannah.
- 4.4.4 Technical documentation detailing the process by which the material controls hydrogen sulfide. This documentation must clearly show the stoichiometry of the biochemical reaction, describe a minimum of three case studies, and clearly demonstrate compliance with paragraph 4.3.1.

#### 4.5 Substitutions

The material shall be provided in strict compliance with these specifications. Any bid for material with deviations from these specifications shall be considered non-responsive and shall not be considered.

#### 4.6 Technical Requirements

- 4.6.1 The material supplied shall be an aqueous solution of calcium nitrate containing a minimum of three and a half (3.5) pounds of nitrate-oxygen per gallon and having a minimum specific gravity of 1.42.
- 4.6.2 The material shall be capable of reducing the dissolved hydrogen sulfide concentration in

- wastewater to less than 0.1 milligram per liter.
- 4.6.3 The material shall be free of any objectionable odor-producing compounds.
  - 4.6.4 The pH of the material shall range from 4.0 to 9.0.
  - 4.6.5 The material shall have a freezing point of no less than five (5) degrees Fahrenheit.

#### 4.7 Safety Requirements

- 4.7.1 The material shall contain no hazardous substances as defined by both the Federal Environmental Protection Agency (EPA) and the State Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) lists.
- 4.7.2 The material shall be exempt from Federal Department of Transportation (DOT) placard requirements.
- 4.7.3 Recommended handling procedures for the material shall require protective gloves and safety glasses only. Any material recommending more sophisticated equipment (i.e., face shield, body suit, etc.) during routine handling shall not be considered.

#### 4.8 Product Delivery

- 4.8.1 The material shall be delivered in minimum 3,700 gallon deliveries.
- 4.8.2 The supplier shall be responsible for the safe, clean delivery of the material into the storage tanks. The supplier shall provide prompt clean-up of any spills made during delivery.
- 4.8.3 The supplier shall be responsible for the proper labeling of storage tank in compliance with local, state and federal requirements. The supplier shall not deliver the material into any tank or vessel which is not properly labeled.

#### 4.9 Pricing

- 4.9.1 The supplier shall provide pricing in terms of price per gallon of solution delivered. The minimum nitrate-oxygen content and specific gravity of the solution must be provided and must be expressed as pounds nitrate-oxygen per gallon of solution. All charges, including freight, optimization services, etc. shall be included in the per gallon bid price.
- 4.9.2 The price shall be valid for delivery quantities of 3,700 gallons or more per shipment.

#### 5.0 General Specifications

##### 5.1 The bid response must include the following documents in the order listed:

- Bid Proposal Form (as a cover sheet)
- Exception Sheet
- Non-Discrimination Statement
- Proposed Schedule of M/WBE Participation
- Other requested submittals as stated

All referenced documents must be completed and returned in their entirety to constitute a complete bid.

- 5.2 Original invoices should be sent to: Duplicate invoices should be sent to:

City of Savannah  
Accounts Payable  
P.O. Box 1027  
Savannah, GA 31402

City of Savannah  
Conveyance (Lift Station Maintenance)  
P.O. Box 1027  
Savannah, GA 31402

- 5.3 Vendor is responsible for determining and acknowledging any amendments issued in connection with this bid solicitation. Addenda must be acknowledged in order for bids to be considered.
- 5.4 To be awarded a bid, bidders must be registered as a bidder on the City of Savannah's website at [www.savannahga.gov](http://www.savannahga.gov).
- 5.5 This is an annual contract and prices are to be held firm for a period of one (1) year (12 months). This agreement may be renewed for up to three (3) additional twelve (12) month periods, if all contracting parties so agree and services provided by the vendor have been satisfactory.
- 5.6 Bidder acknowledges that by submitting a bid for this event, it is waiving any right to insist upon the inclusion of any exculpatory provisions in the parties' contract. The City will not enter into any contract that contains exculpatory provisions in favor of bidder.

**EXCEPTION SHEET**

Event # 3941

If the commodity(ies) and/or services proposed in the response to this bid is in anyway different from that contained in this proposal or bid, the bidder is responsible to clearly identify by specification section number, all such differences in the space provided below. Otherwise, it will be assumed that bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions to the stated specifications:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company

\_\_\_\_\_  
Title

**BID PROPOSAL FORM**

**(SUBMIT AS THE COVER SHEET)**  
**(SUBMIT A MINIMUM OF THREE COPIES)**

City of Savannah Purchasing Department  
3rd Floor, City Hall  
P. O. Box 1027  
Savannah, Georgia 31402  
ATTN: Purchasing Director

EVENT NUMBER: 3941

Business Location: (Check One)  
 Chatham County  
 City of Savannah  
 Other

**ALL BIDDERS MUST BE REGISTERED VENDORS ON THE CITY'S WEBSITE. PLEASE REGISTER AT WWW.SAVANNAHGA.GOV. ALL MANUALLY SUBMITTED BIDS MUST BE SUBMITTED ON THE BID PROPOSAL FORM CONTAINED IN THESE SPECIFICATIONS TO BE CONSIDERED.**

Name of Bidder: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

DO YOU HAVE A BUSINESS TAX CERTIFICATE ISSUED IN THE STATE OF GEORGIA?  
(CHECK ONE) YES: \_\_\_\_\_ NO: \_\_\_\_\_

FROM WHAT CITY/COUNTY \_\_\_\_\_  
TAX CERTIFICATE #: \_\_\_\_\_ FED TAX ID #: \_\_\_\_\_

INDICATE LEGAL FORM OF OWNERSHIP OF BIDDER (STATISTICAL PURPOSES ONLY):  
CHECK ONE:  CORPORATION  PARTNERSHIP  
 INDIVIDUAL  OTHER (SPECIFY: \_\_\_\_\_)

INDICATE OWNERSHIP STATUS OF BIDDER  
(CHECK ONE):  
 NON-MINORITY OWNED  ASIAN AMERICAN  
 AFRICAN AMERICAN  AMERICAN INDIAN  
 HISPANIC  OTHER MINORITY (describe) \_\_\_\_\_  
 WOMAN (non-minority)

Do you plan to subcontract any portion of this project? Yes \_\_\_\_\_ No \_\_\_\_\_  
If yes, please complete the attached schedule of M/WBE participation. Also complete the schedule if you will be using any MWBE suppliers.

THE UNDERSIGNED PROPOSES TO FURNISH THE FOLLOWING ITEMS IN STRICT CONFORMANCE TO THE BID SPECIFICATIONS AND BID INVITATION ISSUED BY THE CITY OF SAVANNAH FOR THIS BID. ANY EXCEPTIONS ARE CLEARLY MARKED IN THE ATTACHED COPY OF BID SPECIFICATIONS.

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT PRICE	TOTAL PRICE
1	Bioxide	55,000 gallons		

TOTAL BID \$ \_\_\_\_\_

**PAYMENT TERMS: PLEASE CHECK ONE AND FILL IN BLANKS**

(Minimum of 10 working days must be allowed for discount to be considered in bid award)

\_\_\_ Less \_\_\_ % \_\_\_ Days Prompt Payment Discount (if offered) (\_\_\_\_\_)

\_\_\_ Net - 30 Days (no discount offered) - 0 -

TOTAL NET BID

\$  
=====

NUMBER OF DAYS REQUIRED FOR DELIVERY AFTER RECEIPT OF ORDER:

\_\_\_\_\_ DAYS

DID YOU INCLUDE YOUR COMPLETED RESPONSE TO ATTACHMENT 1 WITH YOUR BID? \_\_\_\_\_

HAVE YOU SUBMITTED THE OTHER DOCUMENTS REQUIRED IN SECTION 4.4? \_\_\_\_\_

CONFIRM RECEIPT OF ANY ADDENDA ISSUED FOR THIS BID:

ADDENDUM \_\_\_\_\_ #

DATE \_\_\_\_\_

I certify this bid complies with the general and specific specifications and conditions issued by the City except as clearly marked in the attached copy.

\_\_\_\_\_  
Please Print Name

\_\_\_\_\_  
Authorization Signature

\_\_\_\_\_  
Date

**NON-DISCRIMINATION STATEMENT**

The bidder certifies that:

- (1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin, or gender in connection with any bid submitted to the City of Savannah or the performance of any contract resulting therefrom;
- (2) That it is and shall be the policy of this company to provide equal opportunity to all business persons seeking to contract or otherwise interested in contracting with this company, including those companies owned and controlled by racial minorities, cultural minorities, and women;
- (3) In connection herewith, we acknowledge and warrant that this company has been made aware of, understands and agrees to take affirmative action to provide such companies with the maximum practicable opportunities to do business with this company;
- (4) That this promise of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption;
- (5) That the promises of non-discrimination as made and set forth herein shall be and are hereby deemed to be made as part of and incorporated by reference into any contract or portion thereof which this company may hereafter obtain and;
- (6) That the failure of this company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the City of Savannah to declare the contract in default and to exercise any and all applicable rights and remedies including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owing on a contract.

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Title**



**PROPOSED SCHEDULE OF M/WBE PARTICIPATION**

All M/WBEs listed **must be certified as a minority-owned or women-owned business** by the City of Savannah or a federally-recognized or state-level certifying agency (such as USDOT, State DOT, SBA 8(a) or GMSDC) that utilizes certification standards comparable to the City of Savannah **prior** to the due date of this bid. **Other business certifications that do not specify majority woman or minority ownership may not be substituted.** **Proof of M/WBE certification from the certifying agency is required to accompany the bid.** A firm that has submitted an application for M/WBE certification but has not been certified is not qualified as a certified M/WBE and will not be recognized as such during the City’s evaluation process. To expedite verification, please provide accurate phone numbers for all M/WBEs listed and ensure firms understand contact will be made following bid submittal.

Name of Proposer: \_\_\_\_\_ Event No. 3941

Project Title: \_\_\_\_\_

**NOTE: Unless certified through the City of Savannah M/WBE Program, proof of M/WBE certification must be attached for all firms listed.**

Name of M/WBE Participant	Name of Majority Owner	Telephone	Address (City, State)	Type of Work Sub-Contracted	Estimated Sub-contract Value	MBE or WBE	Certified? (Y or N)	Certifying Agency? (City of Sav. or Other)
					%			
					%			
					%			
					%			
					%			
					%			

MBE Participation Value: \_\_\_\_\_ % WBE Participation Value: \_\_\_\_\_ % M/WBE Participation Value: \_\_\_\_\_ %

**The undersigned will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule, conditioned upon executing a contract with the Mayor and Aldermen of the City of Savannah.** The Prime’s subcontractor that subcontracts work must enter into a formal agreement with the tier subcontractor identified herein for work listed in this schedule. The Prime may count toward the goal any tier of M/WBE subcontractors and/or suppliers that will be utilized in the contract work. However, when an M/WBE subcontracts part of the work, the value of the subcontracted work may **only** be counted toward the goal **if the tier subcontractor is an M/WBE**. Any work an M/WBE firm subcontracts to a non-M/WBE firm **will not count toward the M/WBE goal**. It is the responsibility of the Prime contractor to advise all M/WBEs of this requirement and to ensure compliance by subcontractors.

**Joint Venture Disclosure**

If the prime bidder is a joint venture, please describe the nature of the joint venture, the level of work and the financial participation to be provided by the Minority/Female joint venture firm in the space provided below.

Joint Venture Firms	Level of Work	Financial Participation

Printed name (company officer or representative): \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Email: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

*The Minority/Women Owned Business Office is available to assist with identifying certified M/WBEs. Please contact the M/WBE Office at (912) 652-3582. The City of Savannah’s certified M/WBE registry is posted on its website @ [www.savannahga.gov](http://www.savannahga.gov).*

## Developing a Strong M/WBE Participation Plan

### *Key facts every bidder/proposer needs to know prior to developing their M/WBE Participation Plan:*

1. All bidders/proposers must submit a “Proposed Schedule of M/WBE Participation” which identifies the minority and/or woman-owned companies that have agreed to participate in the project if awarded. All companies listed on the form must be certified as either minority-owned and controlled or woman-owned and controlled. The City does not accept a company’s “self-identification” as minority or woman-owned.
2. **Proof** of M/WBE certification from the certifying agency is required to accompany the bid; and certification must have been completed by the City of Savannah, a federally-recognized or a state-level certifying agency (USDOT, State DOT, SBA 8(a) or GMSDC) utilizing certification standards comparable to the City of Savannah.
3. The certification must have been approved prior to the due date of this bid. A firm that has submitted an application for certification but has not been certified will not be counted toward the M/WBE goal.
4. The M/WBE Office **will be contacting all M/WBE firms** included in the bidder’s M/WBE Plan to confirm each: a) was contacted by the bidder/proposer; b) performs the type of work listed; and c) agreed to participate.
5. To expedite the verification process, bidders/proposers need to: provide accurate phone numbers for all M/WBEs listed; ensure M/WBEs know to expect to be contacted by phone and email; request M/WBEs be accessible during the critical period before bid-opening; and advise M/WBEs that City staff **must** receive the M/WBE’s confirmation that the firm agreed to participate in the bid/proposal in order for the prime contractor to receive credit toward their proposed M/WBE participation goals.
6. If a proposed M/WBE cannot be confirmed as certified, performing the type of work described or agreeing to participate, the bidder/proposer will be notified and given a pre-determined period to submit a correction. If an M/WBE still cannot be confirmed or replaced, the proposed percentage of participation associated with the unverified M/WBE firm will **not be counted** and **will be deducted** from the overall proposed M/WBE goal.
7. Any tier of M/WBE subcontractors or suppliers that will be utilized in the contract work may count toward the MBE and WBE goal **as long as the tier subcontractors/suppliers are certified M/WBEs**. Work that an M/WBE subcontracts to a non-M/WBE firm does not count toward the M/WBE goal.
8. M/WBEs must perform a “**commercially useful function**” which is the provision of **real and actual work or products**, or performing a distinct element of work for which the business has the skills, qualifications and expertise, and the responsibility for the actual management and supervision of the work contracted.
9. Per the *Proposed Schedule of M/WBE Participation* “the undersigned (bidder/proposer) will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule, conditioned upon executing a contract with the Mayor and Aldermen of the City of Savannah.” **This signed commitment is taken seriously by the City**, so do not list M/WBEs you do not plan to utilize. Any proposed changes must be pre-approved by the M/WBE Office, be based on legitimate business-related reasons, and still meet the M/WBE participation goals per the City’s contract.
10. A bidder who is a certified M/WBE may count toward the goal the portion of work or services on a City contract that is actually performed by the M/WBE, including: the cost of supplies/materials purchased or equipment leased for contract work, fees for bona fide services such as professional or technical services, or for providing bonds or insurance specifically required for the performance of a City contract.

11. If awarded the contract, the MWBE Office **will be reviewing your company's subcontracts, invoices and payment records** to substantiate the completion of work and payment of M/WBEs. If the prime contractor is an M/WBE that is being included in its M/WBE goal, the prime contractor must maintain records **that will be inspected** to prove the portion of work performed, cost of work, and payments to the prime company.
12. Most bids for goods and materials do not have specific MWBE goals established for the contract. If no goals are include in the scope of work or General Specifications, you are not required to submit MWBE participation but encouraged to do so when the opportunity is available. The City maintains this information for statistical purposes only and it is not reflected in the award decision.