



APPOMATTOX RIVER WATER AUTHORITY  
21300 Chesdin Road  
Petersburg, VA 23803



SOUTH CENTRAL WASTEWATER AUTHORITY  
900 Magazine Road  
Petersburg, VA 23803

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**ADVERTISEMENT FOR BIDS  
APPOMATTOX RIVER WATER AUTHORITY  
&  
SOUTH CENTRAL WASTEWATER AUTHORITY**

BID INVITATION NO: 22-0113

DATE: December 6, 2021

Sealed Bids, subject to the general conditions and specifications attached, will be received at the Appomattox River Water Authority, 21300 Chesdin Road, S. Chesterfield, VA 23803 until, but no later than 2:00 PM, Thursday, January 13, 2022, for the following item:

**2022 Chemicals**

For your bid to be considered, please complete the 2022 Chemical Bid form with each item on which you are submitting and accompanying signature page and return the bid and signature pages to the Authority.

Any bids received after the announced date and time above, whether by mail or otherwise, will be returned unopened.

The contract will run for a period of Twelve (12) months beginning February 1, 2022 through January 31, 2023.

The right is reserved to reject any or all bids submitted where it appears it will be in the best interest of the Authority.

All quoted prices will be F.O.B. The locations for delivery are indicated on the bid forms;

- Delivery location indicated as "ARWA only" will be delivered to 21300 Chesdin Rd., S. Chesterfield, VA 23803.
- Delivery location indicated as "SCWWA only" will be delivered to 900 Magazine Rd., Petersburg, VA 23803
- Delivery location indicated as "ARWA / SCWWA" will be delivered to either location identified at the time of order.

Bid documents are available by contacting the Authority at (804) 590-1145 or (804) 861-0111 to request a copy.

James C. Gordon  
Assistant Executive Director  
APPOMATTOX RIVER WATER AUTHORITY / SOUTH CENTRAL WASTEWATER AUTHORITY



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## GENERAL TERMS AND CONDITIONS

**PLEASE READ TERMS AND CONDITIONS CAREFULLY BEFORE SUBMITTING BID.**

### BIDDING PROCEDURES:

- a) Each vendor must submit a separate bid invitation and not be combined on the same form or placed in the same envelope. Individual vendors may submit multiple bids on the same invitation.
- b) All bids submitted shall have included in the price the cost of any business or professional licenses, permits or fees required by the Authority or the Commonwealth of Virginia.
- c) All bids must be signed in order to be considered. If the bidder is a firm or corporation, the bidder must show title of the individual executing the bid.
- d) Envelopes containing bids will be sealed and marked in the lower left hand corner with the invitation number, the item description and date and hour of opening of the bid. Failure to do so may be cause for rejection.
- e) All forms, blanks and questions must be completed. Failure to do so may be cause for rejection.
- f) Bidder shall not add any conditions or qualifying statements to this bid otherwise the bid may be declared as non-responsive to the Advertisement for Bids.
- g) In submitting this bid, it is understood that the right is reserved by the Authority to reject any and all bids. Bids may not be withdrawn for a period of sixty (60) days from the opening thereof.

**SPECIFICATION AND/OR DESCRIPTION ON FILE:** All bids will be for furnishing chemicals according to the applicable specification documents prescribed by the Authority. The specifications and/or description of the chemicals will be on file in the Administration Office of the Authority during normal office hours (8:00 a.m. – 4:30 p.m.) Monday through Friday (excluding Holidays) until the closing date and are available to prospective bidders.

**SPECIFICATIONS:** Any deviation from specifications indicated herein must be clearly pointed out, otherwise it will be considered that items offered are in strict compliance with specification and successful bidders will be responsible. **ANY DEVIATION MUST BE EXPLAINED IN DETAIL ON AN ATTACHED SHEET.**

**DIRECT TAXES:** All bids will be submitted exclusive of direct Federal, State and Local taxes. However, if the bidder believes that certain taxes are properly payable by the Authority, he may list such taxes separately in each case directly below the respective item bid price.

**SALES TAXES:** The Authority is exempt from payment of State sales and use taxes on all tangible personal property purchased or leased for its use or consumption. A certificate of exemption will be furnished upon request.

**AWARDS:** The Authority reserves the right to award bids on an individual item or on a total bid basis which is advantageous to the Authority. In case of error in extension of prices on the bid, the unit price

shall govern in the calculation of the bid.

**BONDS AND INSURANCE:** The chemical supplier shall secure and maintain in force, at his/her own expense all required forms of insurance to insure the completion of the work under contract to the satisfaction of the Authority and without damage to, or claims against the Authority. The chemical supplier shall provide satisfactory evidence of bonds and insurance on behalf of the subcontractors, before entering into an agreement to sublet any part of the work to be done under this contract.

**BIDDER'S WARRANTIES:**

- a. By bidding in response to this invitation the bidder represents that should the bid be accepted, the resulting chemical supply awarded would not violate any of the provisions of the Code of Virginia or the Authority.
- b. The bidder represents as an integral and essential part of his bid or proposal:
  - (1) That he has not participated in nor is he obligated or otherwise bound by any agreement or other understanding with any person, firm or corporation with respect to the allocation of the business afforded by or resulting from acceptance of his bid or proposal.
  - (2) That his/her bid is or intended to be competitive and free from any collusion with any person, firm or corporation.
  - (3) That he/she is not a party to nor has he participated in nor he/she obligated or otherwise bound by agreement, arrangement or other understanding with any person, firm or corporation relating to the exchange of information concerning bids, prices, terms or conditions upon which the contract resulting from the acceptance of his/her bid proposal is to be performed. The bidder agrees that if such warranty is in any respect breached, he/she will pay to the Authority the full price agreed by the Authority to be paid for the supplies, materials, equipment or services to be furnished under his bid or proposal.

**BRAND NAME:** Where brand name or trade name appears in the specifications, it is understood that the brand or trade name referred to or its approved equal, shall be furnished. If, however, the bidder proposed similar but not identical items, the bidder shall furnish full particulars. If no mention is made of any exception, it is assumed that he/she is bidding on the article mentioned and not an approved equal, and he/she will be required to deliver the exact article specified.

**EMPLOYEE DISCRIMINATION:** By submission of bid, the bidder certifies total compliance with Title VI and Title VII of the Civil Rights Act of 1964, as amended, and all regulations promulgated there under. To wit; during the performance of this or any such contract, the contractor agrees as follows:

1. The chemical supplier will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin, except where religion, sex, or national origin is a bona fide occupational qualification reasonable and necessary to the normal operation of the contractor. The contractor agrees to post in a conspicuous place, available to employee and applicant for employment notices setting forth the provisions of this non-discrimination clause;
2. The chemical supplier, in all solicitation or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
3. Notices, advertisements and solicitations placed in accordance with Federal Law, rules or regulations shall be deemed sufficient;
4. The chemical supplier will include that provision of the foregoing paragraphs a, b, and c in every sub-contract or purchase order of over \$15,000 so that the provision will be binding upon each sub-contractor or vendor.

**COLLUSIVE BIDDING:** By my signature on the face of the bid, I certify that this bid is made without prior understanding, agreement or connection with any operation, firm or person submitting a bid for the same materials, supplies or equipment and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of the Virginia Government Frauds Acts and Federal Law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid for the bidder.

**PAYMENT:** It is understood and agreed between the parties to any agreement resulting from this bid invitation that the Authority shall not be obligated to purchase or pay for commodities, supplies, equipment or service covered by this agreement unless and until they are ordered, delivered or performed. The Authority's standard payment terms are 30 days net from receipt of invoice. The Authority may pay invoices by electronic transfer within 15 days of receipt of invoice. Vendors who offer discounts for early payment by electronic fund transfer should note those terms on the bid

**NOTICE OF AWARD:** The successful bidder will receive a Purchase Order. In accordance with Virginia Law, notice of award will be posted on the bulletin board, in the Administration Building of the Authority. Request for bid results must be made in writing and a self-addressed stamped envelope is required. The Authority reserves the right to award in part or in whole or reject any or all bids.

**INFORMALITIES:** The Authority reserves the right to waive any informality in bids.

**DEFAULT:** In case of the successful bidder's default, or he fails to deliver the supplies or services ordered by the time specified the Authority after due notice (verbal or in writing), may procure them from other sources and hold him responsible for any excess cost incurred thereby.

**INTERPRETATION OF SPECIFICATION:** If any person contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the plans, specifications or other documents, contact should be made with the Assistant Executive Director for the interpretation thereof. The Assistant Executive Director can be reached at (804) 861-0111 ext. 202 or [jgordon@scwwa.org](mailto:jgordon@scwwa.org).

**RIGHT TO REJECT:** Right is reserved to reject any or all bids or to award it in the best interest of the Authority.

**ADDRESS BID QUOTATION AS FOLLOWS:**

**BID INVITATION: # 22-0113**

**BID DESCRIPTION: 2022 Chemical Bid**

**EXECUTIVE DIRECTOR  
APPOMATTOX RIVER WATER AUTHORITY  
21300 CHESDIN ROAD  
SOUTH CHESTERFIELD, VA 23803**

**APPOMATTOX RIVER WATER AUTHORITY & SOUTH CENTRAL WASTEWATER AUTHORITY**  
**21300 CHESDIN ROAD**  
**S. CHESTERFIELD, VIRGINIA 23803**

PHONE: (804) 590-1145

2022 CHEMICAL BID

DUE: 2:00 P.M. JANUARY 13, 2022

PRODUCT: DESCRIPTION & SPECIFICATION	Delivery Location & Estimated Use/Year	Minimum Order	2022 Bid Price  (per ton)	NSF or UL certified? Yes or No	Exception - If any please state
<b>1 BLENDED PHOSPHATE (75%/25% Ortho/Poly) - LIQUID</b>	<b>ARWA only</b>				
SPECIFICATION: Attached	300 Wet Tons				
CLOSED TRUCK WITH UNLOADING FACILITY		22 Tons			
<b>2 HYDRATED LIME - BULK</b>	<b>ARWA only</b>				
CURRENT EFFECTIVE AWWA SPEC. B202	200 Tons				
68% MINIMUM AVAILABLE CaO - 32 lbs/cu ft density +/- 2 lbs					
CLOSED TRUCK WITH UNLOADING FACILITY		22 Tons			
<b>3 QUICK LIME - BULK</b>	<b>SCWWA only</b>				
Award to be based on price and acceptability of lime to stabilize sludge					
Alternate 1 (see specification) or;	760 tons	22 Tons			
Alternate 2 (see specification) or;	760 tons	22 Tons			
Alternate 3 (see specification)	760 tons	22 Tons			
<b>4 HYDROFLUOROSILICIC ACID - LIQUID</b>	<b>ARWA only</b>				
CURRENT EFFECTIVE AWWA SPEC: B703	175 Wet Tons				
H2SIF6 23% MIN.					
CLOSED TRUCK WITH UNLOADING FACILITY		22 Tons			
<b>5 SODIUM HYPOCHLORITE - LIQUID (Note #9)</b>	<b>ARWA / SCWWA</b>				
CURRENT AWWA SPEC: B300: 12.5% NaOCl solution	2500 / 820 Wet Tons				
Closed Truck With Pressure or Pumped Feed					
Fill Station Equipped With 2" Male Kamlock Adaptor		22 Tons			
<b>6 ALUMINUM SULFATE - LIQUID (Note #10)</b>	<b>ARWA / SCWWA</b>				
CURRENT EFFECTIVE AWWA SPEC: B403	5050 / 600 Wet Tons				
CLOSED TRUCK WITH UNLOADING FACILITY					
PRICE BASIS: 8.3% Al2O3		22 Tons			
<b>7 SODIUM HYDROXIDE-LIQUID CAUSTIC SODA (Note #11)</b>	<b>ARWA / SCWWA</b>				
CURRENT EFFECTIVE AWWA SPEC: B501: 50% - FOOD GRADE	1000 / 120 Wet Tons				
CLOSED TRUCK WITH UNLOADING FACILITY		22 Tons			
<b>8 AMMONIA - LIQUID - 19%</b>	<b>ARWA only</b>				
CURRENT EFFECTIVE AWWA SPEC: B306	300 Wet Tons				
CLOSED TRUCK WITH UNLOADING FACILITY					
PRICE BASIS: 19% AMMONIA		22 Tons			
<b>9 SODIUM HYDROXIDE-LIQUID CAUSTIC SODA</b>	<b>ARWA only</b>				
CURRENT EFFECTIVE AWWA SPEC: B501: 32% - FOOD GRADE	650 Wet Tons				
CLOSED TRUCK WITH UNLOADING FACILITY		22 Tons			
<b>10 POTASSIUM PERMANGANATE - DRY</b>	<b>ARWA only</b>				
CURRENT EFFECTIVE AWWA SPEC: B603	1 Ton				
COMPATABLE WITH CARUS CYCL-BIN FEED SYSTEM					
CYCL-BIN OR EQUAL		1 Ton			
<b>11 HYDROCHLORIC ACID- LIQUID- 15% Strength</b>	<b>ARWA only</b>				
ANSI/NSF 60 CERTIFIED FOR USE AS A DRINKING WATER ADDITIVE	300 Wet Tons	22 Tons			
<b>12 EMULSION POLYMER - Thickening</b>	<b>SCWWA only</b>				
specification based on Bench Testing	9,200 lbs active polymer	250-300 gal Totes		NA	
<b>13 EMULSION POLYMER - Dewatering</b>	<b>SCWWA only</b>				
specification based on Bench Testing	28,750 lbs active polymer	250-300 gal Totes		NA	
<b>14 SODIUM BI-SULFITE</b>	<b>SCWWA only</b>				
Alternate 1: 38% NAHSO in water	64,000 gallons	22 tons			
Alternate 2: 30% NAHSO in water	72,500 gallons	22 tons			

**NOTES / INSTRUCTIONS FOR BIDDERS:**

- 1** All bids are for chemicals ordered on or after February 1, 2022 and through January 31, 2023.
- 2** All prices are firm for one year unless otherwise stated at the time of bid.
- 3** NSF, UL or similar certification is required (unless otherwise noted). Bidder must state this in the column provided. A copy of the Certification must be sent after notification of award & prior to any ordering.
- 4** Safety data sheets are required of the successful bidder immediately upon receipt of bid award and must be received prior to any order being placed.
- 5** For safety/security the Authority will not accept loads without knowledge of the driver & supplier of the chemical. Suppliers will be responsible for furnishing the Authority the appropriate driver information prior to delivery. If the information is not on hand, the load may be rejected.
- 6** The Authority will not accept loads after business hours (8am to 4 pm, Monday- Friday) without advanced request and agreement.
- 7** Payment will be made within 30 days of receipt of invoice. If the successful bidder chooses to participate in our electronic payment program, and offers a discount for early payment, then payment will be made within 15 days of receipt of invoice. Indicate on the Proposal the discount offered for this payment schedule. Discounts will be used to determine the low bidder in the event of a tie.
- 8** Suppliers shall comply with all requirements of this contract for the period stated above or shall fully reimburse and repay the Authority all expenses which the Authority may incur in making good any such default including, but not limited to, re-bidding the contract, machine down-time, removal of product, and cleaning of equipment.
- 9** For ARWA indicated delivery location, successful bidder agrees to provide full truckloads of chemical to Appomattox River Water Authority, 21300 Chesdin Road, S. Chesterfield, VA 23803 at this price.
- 10** For SCWWA indicated delivery location, successful bidder agrees to provide full truckloads of chemical to South Central Wastewater Authority, 900 Magazine Rd., Petersburg, VA. 23803 at this price.
- 12** Orders will be placed on an as needed basis. With the exception of Blended Phosphate and Potassium Permanganate, delivery will be required within 96 hours (4 working days) of verbal notice. All deliveries must meet the needs of the Authority.

COMPANY NAME: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_ PHONE NO.: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_

SPECIFICATIONS

I. **75/25 Ortho/Poly Blended Phosphate Specification for Chemical Bids (ARWA Only)**

1. % Total Phosphate as PO<sub>4</sub> = 36%
2. Total Phosphate contain: 75% Ortho-Phosphate and 25% Polyphosphate
3. Weight approximately 11 lbs/gal
4. Capable of sequestering iron & manganese
5. Capable of corrosion inhibition
6. pH 4 - 5

II. **Quicklime (SCWWA Only)**

- a) Chemical Properties
- 1) Total CaO (94.0% Minimum)
  - 2) Available CaO (92.0% Minimum)
  - 3) MgO (1.5% Maximum)

b) Percent Passing

Sizings	Alternate 1	Alternate 2	Alternate 3
#20 Mesh	95% +/- 5%	100% +/- 5%	70% +/- 5%
#50 Mesh	55% +/- 5%	68% +/- 5%	50% +/- 5%
#100 Mesh	20% +/- 5%	26% +/- 5%	22% +/- 5%
#200 Mesh	5% +/- 5%	12% +/- 5%	10% +/- 5%

- c) Reactivity (Temperature Rise) – Minimum 48°C rise in 3 minutes.
- d) Lime will be ordered in 25 ton loads (nominal).
- e) Feed will be pneumatic.

III. **Emulsion Polymer (SCWWA Only)**

- a) The polymer is to be used for conditioning secondary wastewater treatment plant sludge for thickening by two 3.0 meter REX Gravity Belt Thickeners and de-watering thickened sludge, co-mingled with primary sludge, by two 2.0 meter REX Belt Filter Presses. It is the South Central Wastewater Authority's desire to use one polymer on both units. Alternative bids for individual unit polymers will be considered but is not preferred. Gravity Belt Thickener and Belt Filter Press specifications as well as minimum cake and capture rate requirements are listed below.

- b) The Polymer shall provide the following thickening performance using the criteria listed below:

Solids Type	Thickening	Dewatering
Feed Concentration	0.4-1.0% by weight	3.0-4.0 percent by weight
Hydraulic Loading Rate (Max.)	600 GPM	120 GPM
Dry solids Loading Rate (Max.)	3000 pounds per hour	2400 pounds per hour
Thickened Solids Concentration (Min.)	4-6 percent by weight	20 percent by weight
Solids Capture Rate (Min.)	95 percent	95 percent

- c) Polymer suppliers should note that the following chemicals are used in the Wastewater Treatment process: Alum, Sodium Hydroxide (Caustic), Sodium Hypochlorite, and Sodium Bi-Sulfite.
- d) After the contract is awarded, the Polymer supplier shall be required to provide periodic confirmation that the Polymer dosage rate remains at or below his proposed dosage rates accepted under this contract. If Polymer does not perform to bid specifications after 90 days of award, contract with be terminated and alternate bids with be considered