

# GENERAL CONDITIONS FOR FULL-SCALE POLYALUMINUM CHLORIDE TRIAL February 2026

## **I. CONTRACT TERMS**

The period of this contract will be for **one hundred eighty days (180)**. The contract may be renewed for up to **three (3) years** from the initial award date upon the agreement of both parties. The bid price will remain firm during the period of the contract.

This contract will be for material, equipment, and labor for conducting two full-scale polyaluminum chloride (PACl) trials at two separate water treatment plants, with each chemical being fed for approximately two weeks during the winter and two weeks during the summer. The project schedule details are subject to change and approval by the Alabama Department of Environmental Management. The trial duration will depend on the optimal feed rate, plant runtimes, and chemical delivery volume. The bid shall include the costs for materials, equipment, and labor required to successfully conduct the project specified herein.

An approximate schedule is as follows:

Winter:

South Shelby WTP: Coagulant-A, Feb. 25-Mar. 11. Coagulant-B, Mar. 11-Mar. 25.

Talladega-Shelby WTP: Coagulant-A, Mar. 3-17 Coagulant-B, Mar. 17-Mar. 31.

Summer:

South Shelby WTP: Coagulant-A, May 19-Jun. 2. Coagulant-B, Jun. 2-Jun. 16.

Talladega-Shelby WTP: Coagulant-A, May 26-Jun. 9. Coagulant-B, Jun. 9-Jun. 23.

## **II. SCOPE OF WORK**

The scope of this bid includes one-time costs for all labor, equipment, and material project costs. The project includes conducting bench-scale, jar tests at no cost to the Owner at two public water treatment plants to select an optimal polyaluminum chloride-based product and dose for each water plant's respective raw or untreated water. Parameters to be measured and used to identify optimal product performance include Turbidity (NTU), pH, UV-254 Absorbance, Alkalinity (mg/L as CaCO<sub>3</sub>), and Total Organic Carbon (mg/L).

Use of equipment and material that is required during the course of the project at each respective plant shall be provided and costs itemized and submitted with each bid. Note, some onsite plant equipment is available for use for the purposes of this project subject to the approval of on-site plant operator(s).

All labor that is required for successful completion of the project shall be itemized and submitted with each bid. Possible activity includes assisting with chemical delivery, tank cleaning, feed pump calibration, and piping setup. Note, plant staff shall be available in an advisory, consulting capacity, heavy equipment operation, and to conduct onsite lab analyses.

### III. **SPECIAL CONDITIONS**

- a. The supplier shall provide written certification that the product furnished meets the requirements of ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.
- b. Bidders shall provide all technical assistance required by the Owner to properly evaluate the PACI at no cost to the Owner.
- c. Prior to the bid opening, Bidder must conduct bench-scale, jar tests at each of the two public water treatment plants to select an optimal polyaluminum chloride-based product and dose for each water plant's respective raw or untreated water, using the jar test protocol provided by each plant. The jar test benchmarks include:
  - i. Turbidity < 0.4 NTU
  - ii. pH = 7.4 without pH adjustment.

Turbidity (NTU), pH, and Alkalinity (mg/L as CaCO<sub>3</sub>) shall be measured on the Owner's calibrated instrument located at the water plant's lab.

UV-254 absorbance shall be measured on the Bidder's calibrated instrument.

Total Organic Carbon (mg/L) shall be measured at the Owner's certified lab of choice, at the Owner's cost.

- d. Qualifying jar tests, the resulting product dose, and the Bidder's unit cost will factor into the formula, which is calculated using a standard PACI Evaluation method and includes the following formula:

$$\begin{array}{l} \text{PACI Dose (mg/L) to achieve <0.4 NTU} \\ \times \text{Product unit cost per pound and mile delivered (Average past 3 years)} \\ \times \underline{8.34} \\ \text{Cost per Million Gallons treated} \end{array}$$

### IV. **DELIVERY**

The full-scale trial will be scheduled for the time-frame specified by ADEM, but is anticipate within the month of February.

The vendor must schedule a specific delivery day and time with personnel if the deadline is not met. Excessive failure to deliver within seven (7) working days shall be grounds for rejection of the vendor for future purchases at the sole discretion of Shelby County. Bulk deliveries of chemicals, if ordered, shall be made in a tanker truck. For all chemical deliveries, the truck must be equipped with all the means to safely convey the chemical from the truck to the storage tanks. Prior to the first delivery, the supplier needs to visit the site to understand the layout and what hoses and fittings will be needed for deliveries. Any spills or leakage shall be the vendor's responsibility.

**All quoted prices shall include any and all delivery charges.** Deliveries shall be made to any of the following locations:

**Shelby County South Water Treatment Plant  
7935 Highway 61  
Wilsonville, AL 35186**

Talladega/Shelby Water Treatment Plant  
289 Coosa Industrial Park First Road  
Childersburg, AL 35044

## V. CHEMICAL DELIVERIES

Deliveries of drums, totes, and/or bulk shall be made to either of the water treatment plants in accordance with plant operator instructions at the Talladega/Shelby Water Treatment plant located near Childersburg and at the Shelby County South Water Treatment Plant located in Wilsonville. Orders may include one or more delivery sites. All deliveries on pallets shall be brought to the trailer door by the delivery driver.

For all bulk loads of chemicals, the supplier shall provide all necessary hoses and fittings to safely offload the product into the designated tanks by plant personnel. Prior to the first delivery, the supplier needs to visit the site to understand the layout and what hoses and fittings will be needed for deliveries.

Drivers shall not make connections nor initiate offloading procedures until authorized to do so by the plant operators. Drivers will be required to wear protective clothing and equipment in accordance with OSHA rules during product unloading. The driver will monitor unloading to ensure delivery is discontinued if a problem develops during unloading.

The supplier is responsible for cleaning up any spills that result from the delivery or occur during the unloading of the product.

## VI. BILLING

Invoice payments shall be based solely on the total certified weight ticket or number of containers delivered, and the vendor's stated bid price. **The product shall be billed in containers or gallons of product delivered, and all prices shall include shipping.** Shelby County Water Services requires a Purchase Order for every order placed. Shelby County Water Services is tax-exempt.

All invoices shall be billed to:

**Shelby County Water Services**  
**10927 US Highway 280**  
**Sterrett, AL 35147**

**ap-water-landfill@shelbyal.com** - preferred method of delivery.

## VII. BID QUALIFICATIONS

- **All BIDDERS must submit product information with their bid.** Information to be submitted must show the product proposed meets all the specifications listed including but not limited to a safety data sheet and list **ALL EXCEPTIONS** to the specifications in a separate document.
- **All BIDDERS must submit jar test data with their bid.** Information of each jar test that was conducted on-site of each water treatment plant. Test data shall include but not be limited to testing location, date, raw and jar test water parameters including pH, Alkalinity, TOC, Turbidity, pH, UV254 Absorbance, dosage concentrations of

coagulants and lime, Standard PACI Evaluation Method, and all requirements of Section III-Special Conditions c. and d.

- **All BIDDERS must submit an itemized scope of work with their bid.** Information to be submitted must include material, equipment, and labor required to complete each of the two full-scale pilot studies. Each BIDDER shall indicate the date a site visit was conducted in which to base the project proposal for each plant.
- **All BIDDERS must submit proof as a certified manufacturer.** Information must prove to the satisfaction of the Owner that the BIDDER is a certified Manufacturer, contracted with the developer and proprietary owner of the chemical product.
- **All BIDDERS must submit references, manufacturing and distribution capacity.** Information to be submitted must list multiple customers currently receiving PAC-based coagulants, the number of PAC manufacturing facilities capable of producing the chemicals being bid, and the number of years serving the water treatment industry.
- **A W-9 and E-verify will be required before the bid is awarded.** We request that you submit a completed W-9 and E-verify documentation with your bid packet. If you do not include the W-9 and E-Verify with your bid and your bid is to be awarded, Shelby County Water Services will contact you by the email provided in your bid packet and request the completed W-9 and E-Verify be submitted within 3 business days.

#### **Steps to provide your E-Verify**

- a. If you **do not have any physical employees in the State of Alabama**, you may submit a signed statement on letterhead in place of the E-Verify.
- b. If your company hasn't already, enroll in E-Verify at [e-verify.gov](http://e-verify.gov)
- c. If you are newly enrolling, you will have an opportunity at the end to print an MOU (Memorandum of Understanding) or check to see if your company printed and saved their MOU when they established the account. If you don't have the MOU, follow step d.
- d. You can log in to your E-Verify account. Go to Company. Select Edit Company Profile. This will show your information. Print this page as proof of enrollment.

## **TMB 9114 BID SPECIFICATIONS**

### **I. GENERAL**

A. The material to be provided shall be TMB 9114 or equal, approved for potable water treatment, listed/certified under the National Sanitation Foundation (NSF) Standard 60.

### **II. PRODUCT SPECIFICATIONS**

<b>Product Specifications</b>	
Aluminum chloride, basic (Weight by Weight Percentage)	30-60%
pH	1.5--3.0
Relative density	1.27 - 1.33
Melting point/freezing point	12 °F (-11 °C)

### **III. MANUFACTURER**

A. The product must be produced by a Manufacturer certified by the product developer/owner by proprietary right.

## **TMB 9811 BID SPECIFICATIONS**

### **IV. GENERAL**

A. The material to be provided shall be TMB 9811 or equal, approved for potable water treatment, listed/certified under the National Sanitation Foundation (NSF) Standard 60.

### **V. PRODUCT SPECIFICATIONS**

<b>Product Specifications</b>	
Aluminum chloride, basic (Weight by Weight Percentage)	30-60%
pH	1.2 - 2.2
Relative density	1.30- 1.35
Melting point/freezing point	-13 °F (-25 °C)

### **VI. MANUFACTURER**

A. The product must be produced by a Manufacturer certified by the product developer/owner by proprietary right.

# QUOTATION SHEET

## Shelby County Water Services

**Company Name:** \_\_\_\_\_

<b>BID: PolyAluminum Chloride Trial – Winter/Summer 2026 – February 2026</b>	
<b>Total Cost for TMB 9811 in four separate Bulk Tanker Deliveries (45,000 lbs each) to Talladega-Shelby Water Treatment Plant</b>	\$ _____
<b>Total Cost for TMB 9114 in four separate Bulk Tanker Deliveries (45,000 lbs each) to Talladega-Shelby Water Treatment Plant</b>	\$ _____
<b>Total Cost for TMB 9811 in two deliveries of 4 totes to the South Shelby Water Treatment Plant (8 Totes Total)</b>	\$ _____
<b>Total Cost for TMB 9114 in two deliveries of 4 totes to the South Shelby Water Treatment Plant (8 Totes Total)</b>	\$ _____
<b>All Equipment Costs for four 2-week trials at Talladega-Shelby Water Treatment Plant</b>	\$ _____
<b>All Labor Costs for four 2-week trials at Talladega-Shelby Water Treatment Plant</b>	\$ _____
<b>All Equipment Costs for four 2-week trials at South Shelby Water Treatment Plant</b>	\$ _____
<b>All Labor Costs for four 2-week trials at South Shelby Water Treatment Plant</b>	\$ _____

**ALL PRICES QUOTED SHALL INCLUDE APPLICABLE DELIVERY FEES, LABOR, AND EQUIPMENT IN CONDUCTING FULL-SCALE POLYALUMINUM CHLORIDE TRIAL AT THEIR RESPECTIVE WATER PLANT LOCATIONS.**

# QUOTATION SHEET

## Shelby County Water Services

THE UNDERSIGNED OFFERS THESE PRICES (FROM QUOTATION SHEET PAGE 1), TERMS, AND DELIVERY  
AS PER BID SPECIFICATIONS:

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

CONTACT (Please Print): \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

COMPANY ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

FOR BID AWARD NOTIFICATION, BILLING DISCREPANCIES, OR INVOICE ISSUES, PLEASE PROVIDE  
THE BILLING MANAGER'S DIRECT CONTACT INFORMATION

BILLING MANAGER'S NAME: \_\_\_\_\_

BILLING MANAGER'S PHONE NUMBER: \_\_\_\_\_

BILLING MANAGER'S EMAIL: \_\_\_\_\_

BIDS SUBMITTED ARE FIRM AND NO CLAIMS FOR ERRORS WILL BE MADE AFTER BIDS ARE  
OPENED AND SUBSEQUENT THEREOF.

**DON'T FORGET** to enclose the following with your bid.

☐ Paperwork requested in the Bid Qualifications

☐ Completed W-9

☐ E-Verify documentation

Sworn to and subscribed before me this  
the \_\_\_\_\_ day of \_\_\_\_\_,

\_\_\_\_\_, Notary Public

My Commission Expires: \_\_\_\_\_

QUOTATION SHEET PAGE 2