



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

PROCUREMENT DOCUMENTS

FOR

***Supply and Delivery
of
Water Treatment Chemicals
for the
Jordan Valley Water Treatment Plant,
Southeast Regional Water Treatment Plant,
Southwest Groundwater Water Treatment Plant,
Terminal Reservoir,
and various remote facilities***

Revised April 2026

***EMAILED on
April 14, 2026***

OWNER

Jordan Valley Water Conservancy District
15305 South 3200 West
Herriman, Utah 84065

Physical bids will be received by the Jordan Valley Water Conservancy District at its treatment plant located at 15305 South 3200 West, Herriman, Utah 84065. Electronic bids will be accepted at Alishak@Jvwcd.gov. All bids will be received until 1:00 p.m. on **Tuesday, April 28, 2026.**

JORDAN VALLEY WATER CONSERVANCY DISTRICT

TABLE OF CONTENTS

<u>Bid Documents</u>	Page
0010 Notice Inviting Bids	1
0020 Instructions for Bids	5
0030 Bid Forms	9
 <u>Contract Documents</u>	
0050 Procurement Agreement.....	14
0060 General Conditions	17
 <u>Technical Specifications</u>	
0100 Summary of Work	25
0200 Liquid Polyaluminum Chloride	26
0300 PolyDADMAC	33
0400 Powdered Activated Carbon	40
0500 Sodium Hydroxide	47
0600 Liquid Chlorine.....	53
0700 Sodium Hypochlorite.....	60
0800 Aqueous Sodium Chlorite	68
0900 Reverse Osmosis Antiscalant.....	75

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

**BID
DOCUMENTS**

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0010 – NOTICE INVITING BIDS

RECEIPT OF BIDS: Sealed hard copy bids will be received by the Jordan Valley Water Conservancy District, hereafter “Owner”, at its treatment plant located at 15305 South 3200 West, Herriman, Utah, 84065. Electronic bids will be accepted at Alishak@jvwcd.gov. All bids for the project titled “Supply and Delivery of Water Treatment Chemicals for the Jordan Valley Water Treatment Plant, Southeast Regional Water Treatment Plant, Southwest Groundwater Water Treatment Plant, and various remote facilities” will be received until 1:00 p.m., on **Tuesday, April 28, 2026.**

OPENING OF BIDS: All bids received physically or electronically will be publicly opened and read at the time and location identified above.

DESCRIPTION OF WORK: Supplying, delivering, unloading, and providing technical assistance as needed for certain water treatment chemicals at the OWNER’S Jordan Valley Water Treatment Plant (JVWTP), Southeast Regional Water Treatment Plant (SERWTP), Southwest Groundwater Water Treatment Plant (SWGWTP), Sodium Hypochlorite Feed Stations, and Terminal Reservoir Chlorine Booster Facility from July 1, 2026 through June 30, 2027.

CHEMICALS SPECIFICATIONS: Chemicals submitted through this bid shall meet or be of higher quality than outlined in the Technical Specifications for individual chemicals as contained in the Procurement Documents.

NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION: In accordance with R309-105-10, R309-520-15, R309-525-11 and R309-525-25 of the Utah Administrative Code, all chemicals submitted through this bid shall comply with NSF/ANSI Standard 60, except for Powdered Activated Carbon, which shall comply with NSF/ANSI Standard 61. Proof of certification to /NSF/ANSI Standard 60 and/or NSF/ANSI Standard 61 shall be submitted with the bid. Various certification organizations may be involved in certifying products in accordance with NSF/ANSI 60. The Utah Division of Drinking Water accepts products certified to ANSI/NSF Standard 60 and ANSI/NSF Standard 61 by Underwriters Laboratories (UL) and the National Sanitation Foundation (NSF.) Bids received without proof of certification to ANSI/NSF Standard 60 and/or ANSI/NSF Standard 61 will not be considered.

DELIVERY SCHEDULE: The OWNER shall endeavor to place orders with the SUPPLIER at least two calendar days prior to the date of desired delivery. The SUPPLIER shall make the delivery between two and five calendar days after an order has been placed, except for Powdered Activated Carbon, which must be delivered within ten calendar days from order placement. Any bid requiring receipt of order for delivery on a set schedule will be determined unacceptable.

QUANTITIES: The annual quantities of chemicals listed in the specifications and bids are estimated and the OWNER in no way represents that it agrees to purchase those estimated amounts or any chemicals at all. Actual purchases may be either less than or greater than the

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

estimated amounts. Individual deliveries shall be made in the form and quantity listed in the specifications.

BID ITEMS: Any BIDDER may bid to provide any single item, all items, or any combination of items.

PRICES: Prices quoted must include all charges, including but not limited to: supply, delivery, and unloading, technical assistance and Superfund assessments. Prices shall be firm from July 1, 2026 through June 30, 2027.

PREVIOUS BID RESULTS: The results of the most recent bids collected in June 2025 are included on page 3 as a service to BIDDERS. Although these results are believed to be an accurate representation of the bids received, the OWNER does not warrant or guarantee their accuracy.

JORDAN VALLEY WATER CONSERVANCY DISTRICT
Water Treatment Chemical Bid Results
 July 1, 2025 to June 30, 2026

	PACL \$/gal	Poly DADMAC \$/gal	PAC \$/lb	Sodium Hydroxide \$/gal	Liquid Chlorine \$/lb	Sodium Hypochlorite \$/gal				Sodium Chlorite \$/gal	Reverse Osmosis Antiscalant 2,500 lb Tote \$/Tote
						5.25%		12%			
						300 gal	4500 gal	350 gal	4500 gal		
Volusol Bulk and Contract Manufacturing	\$5.249 KEMIRA PAX- XL1900					² \$5.189	\$2.563	² \$7.309	\$4.486		
Komline-Harn											\$8580 Vitec 4000
Univar Solutions	\$4.05 USALCO CC 2000			\$1.2592						\$6.86 AktaKlor 25	
International Dioxide										\$6.71 ERCOPure BCD-25	
Atlas Carbon			\$1.09 Alpine PAC 500								
Polydyne		\$5.934 Clarifloc C-308P									
Chemtrade	\$7.66 Hyoer+Ion 1090										
Thatcher	¹ \$4.05 T-Floc B-135			\$1.578	\$1.20	\$13.02	\$2.59	\$16.45	\$3.49		
PVS DX Inc.					\$1.45						
Alpine Technical Services		\$9.86 FLOQUAT FL 4420 PWG									Bid did not meet specification
Land View Inc				\$1.68						\$10.66	

- ¹ Tie bid decided by coin toss
- ² Bid withdrawn by supplier

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXEMPTION FROM SALES AND USE TAX: SUPPLIER shall pay all sales, consumer, use and other similar taxes required by law to be paid due to the production and delivery of water treatment chemicals and furnishing of services. The OWNER is exempt from paying sales and use taxes. The OWNER'S sales and use tax exemption number is 12060110-002-STC.

ADDRESS AND MARKING OF BIDS: If the bid is mailed, the envelope enclosing the bid shall be sealed and addressed, delivered, or mailed to:

Jordan Valley Water Conservancy District
Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065

The envelope shall be plainly marked in the upper left-hand corner with the name and address of the BIDDER and shall bear the words "Supply and Delivery of Water Treatment Chemicals for the JVVWTP, SERWTP, SWGWTP, Terminal Reservoir and various remote facilities."

If the bid is submitted electronically, it shall be formatted and saved as a Portable Document Format (PDF) file and included as an email attachment. The email shall be addressed and sent to Alishak@Jvwcd.gov with CHEMICAL BID in the subject line. The electronic time stamp on the OWNER'S email server will be used to determine if the bid was received in time for the bid opening.

PROJECT ADMINISTRATION: All questions relative to this project, prior to the opening of bids, shall be directed to Steve Blake, Treatment Operations Division Manager, as the OWNER'S representative for the project. He can be reached at:

Jordan Valley Water Conservancy District
Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065
(801) 446-2000

OWNER'S RIGHTS RESERVED: The OWNER reserves the right to reject any or all bids, to waive any formality in a bid and to make awards in the interest of the OWNER. Discounts offered under payment terms, or award of multiple bid items to a single BIDDER, will be evaluated to determine the lowest overall cost to the OWNER. The OWNER may select a single BIDDER for the supply and delivery of all bid items or different BIDDERS for the supply and delivery of any or all items separately.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0020 – INSTRUCTIONS TO BIDDERS

FORM OF BID: The bid shall be made on the BID FORMS included herein. The completed documents contained in Section 0030 – BID FORMS, in addition to Safety Data Sheets and proof of compliance with NSF/ANSI Standard 60 and/or NSF/ANSI Standard 61 for each chemical bid for supply shall be enclosed in a sealed envelope or included in the electronic PDF file bearing the name of the BIDDER and the name of the project. **The remainder of the Bid Documents received from the OWNER are not required to be returned with the bid schedule.**

ADDITIONAL INFORMATION REQUIRED FOR LIQUID CHLORINE: Liquid Chlorine supplied in ton containers to the Jordan Valley Water Treatment Plant shall have the container valves in the following orientation: when facing the container valves, the gas valve shall discharge to the three o'clock position and the liquid valve shall discharge to the nine o'clock position. Containers with valves that cannot be opened by applying a sharp blow applied by the palm of the hand to the valve wrench will be returned to the SUPPLIER for full credit.

ADDITIONAL REQUIREMENTS FOR POWDERED ACTIVATED CARBON: Powdered Activated Carbon performance testing has been performed previously by the OWNER with the relative results shown in the tables below.

The following products failed to achieve a minimum 70% geosmin removal in performance testing, or have a performance factor greater than 1.7, and will not be considered for purchase.
Hydrodarco B, Norit
Aquasorb C500, Jacobi
Wood base, American Carbon
Coal base, American Carbon
PACarb
PACarb Plus
HydrodarcoW, Norit
Standard Purification Watercarb L
Aquasorb CB
Calgon WPHM
Norit PAC 20BF
Standard Purification Watercarb 800
Meadwestvaco Nuchar
Puragen OxPure AQM Plus
CarbPure T
CarbPure TRA

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

The following products achieved the minimum geosmin removal in performance testing	Relative performance factor to be applied to bid unit price
Acticarb PS1300F	1.00
OxPure AQM 325 Ultra	1.16
CarbPure 800F RA	1.21
Acticarb PS1300	1.23
CarbPure 600F RA	1.27
Biogenic Reagents UAC-H2OM	1.31
Picahydro MP23	1.39
Alpine PAC Supreme	1.48
MWV Auquachar	1.51
Acticarb PS1000F	1.64
Cabot Hydrocdarco S	1.67
Meadwestvaco Aqua Nuchar	1.69

The cost to the OWNER for performance testing of a specific Powdered Activated Carbon is \$1000 (6 geosmin samples @ \$150 each plus \$100 labor). Any BIDDER wishing to bid a Powdered Activated Carbon previously untested by the OWNER shall reimburse the OWNER for the cost of performance testing. Retesting of a Powdered Activated Carbon previously tested by the OWNER will not be considered. Because of limitations of PAC storage and feed capacity, any PAC with a performance factor greater than 1.7 will not be considered for purchase.

DELIVERY OF THE BID: The bid shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the BIDDER'S sole responsibility to see that its bid is received in proper time.

WITHDRAWAL OF BID: Bids shall be unconditionally accepted without alteration or correction, excepting that BIDDER may by means of written request, signed by the BIDDER or its properly authorized representative, withdraw its bid. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of bids prior to the closing time for receipt of bids.

OPENING OF BIDS: All bids, whether physical or electronic, will be publicly opened and read at the Jordan Valley Water Treatment Plant at the closing time stipulated in the Notice Inviting Bids.

MODIFICATIONS AND ALTERNATIVE BIDS: Unauthorized conditions, limitations, or provisions attached to a bid will render it non-responsive and may cause its rejection. However, alternative bids may be submitted for consideration by the OWNER.

DISCREPANCIES IN BIDS: In the event there is more than one bid item in a bid schedule and the total indicated for the schedule does not agree with the sum of the prices being bid on the individual items, the prices bid on the individual items shall govern and the total for the schedule will be corrected accordingly, and the BIDDER shall be bound by said correction.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

BIDDER'S EXAMINATION OF BIDDING DOCUMENTS AND SITE: It is the responsibility of each BIDDER before submitting a bid to:

- A. Examine the bid documents thoroughly.
- B. Visit the site to become familiar with local conditions that may affect cost, progress, performance or furnishing of work.
- C. Consider federal, state and local laws and regulations that may affect cost, progress, performance or furnishing of the work.
- D. Study and carefully correlate the BIDDER'S observations with the bid documents.
- E. Notify the OWNER of all conflicts, errors, or discrepancies in the Procurement Documents.

DISQUALIFICATION OF BIDDERS: If there is a reason for believing that collusion exists among BIDDERS, all bids will be rejected.

EVALUATION OF BIDS AND AWARD OF PROCUREMENT AGREEMENT: Award of the Procurement Agreement(s), if awarded, will be made utilizing the following criteria: compliance with the Technical Specifications outlined in the Procurement Documents; demonstrated performance of the chemical bid; previous experience with the SUPPLIER, and lowest overall cost to the OWNER.

The award of Procurement Agreement(s) for Sodium Hypochlorite will be awarded for each concentration and delivery lot size; multiple SUPPLIERS are possible.

To determine the lowest overall cost to the OWNER of Powdered Activated Carbon, the OWNER will analyze samples in accordance with a modified test based on **NSF/ANSI B600-16, Appendix B, Section B.1: Geosmin Test, Performance based Evaluation for Geosmin**, and apply relative performance factors to each sample tested. Only PAC capable of removing at least 70% of geosmin will be given a relative performance factor. PAC not meeting the 70% removal requirement will not be considered for purchase, nor will any PAC with a performance factor greater than 1.7.

If a new Powdered Activated Carbon is required to undergo performance testing as detailed in **ADDITIONAL REQUIREMENTS FOR POWDERED ACTIVATED CARBON**, the award of Procurement Agreement for Powdered Activated Carbon will be made after the results of the performance testing are evaluated and each new PAC sample assigned a performance factor, and the lowest overall cost of Powdered Activated Carbon product is determined. If a new PAC is tested for its performance, the results of the performance testing will be available within two weeks of receipt by the OWNER of any Powdered Activated Carbon samples from all SUPPLIERS requesting performance testing.

If no Powdered Activated Carbon requires performance testing, the relative performance factors will be applied to each SUPPLIER's Powdered Activated Carbon bid unit cost.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

The award(s) will be made to a responsive and responsible BIDDER(S) whose bid(s) complies with all the requirements prescribed.

EXECUTION OF AGREEMENT: The BIDDER to whom an award is made shall execute a written Procurement Agreement with the OWNER within 10 calendar days following notification by OWNER that the bid has been accepted. The Procurement Agreement shall be in a form substantially similar to that found in the Procurement Documents. Failure or refusal to enter into an Agreement as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award. If the successful bidder refuses or fails to execute the contract, the OWNER may award to the second lowest responsible bidder or reject all bids and re-advertise for rebidding.

- END OF INSTRUCTIONS TO BIDDERS -

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0030 – BID FORMS

BID

BIDS TO: JORDAN VALLEY WATER CONSERVANCY DISTRICT

1. The undersigned BIDDER hereby agrees, if this bid is accepted, to enter into a Procurement Agreement with the OWNER to perform the WORK as specified or indicated in Procurement Documents titled “Supply and Delivery of Water Treatment Chemicals for the Jordan Valley Water Treatment Plant, Southeast Regional Water Treatment Plant, Southwest Groundwater Water Treatment Plant, and various remote facilities.”
2. BIDDER accepts all of the terms and conditions of the Procurement Documents, including without limitation those in the Notice Inviting Bids and Instructions to Bidders.
3. This bid will remain open for the period stated in the Notice Inviting Bids unless otherwise required by law. BIDDER will enter into a Procurement Agreement within the time and in the manner required in the Notice Inviting Bids and the Instructions to Bidders.
4. BIDDER has familiarized itself with the nature and extent of the procurement WORK, site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as BIDDER deems necessary.
5. This bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation; BIDDER has not directly or indirectly induced or solicited any other BIDDER to submit a false or sham bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER.
6. To all the foregoing, and including all cost schedule(s) and information required of BIDDER contained in this bid form, said BIDDER further agrees to complete the WORK required under the Procurement Documents within the contract time stipulated in the Procurement Documents, and to accept in full payment the contract price based on the total price(s) named in the aforementioned BIDDER cost schedule(s),

Dated _____

Bidder: _____

By: _____

Title: _____

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

COST SCHEDULE – UNIT PRICE

Schedule of unit prices for procurement of “Supply and Delivery of Water Treatment Chemicals for the Jordan Valley Water Treatment Plant, Southeast Regional Water Treatment Plant, Southwest Groundwater Water Treatment Plant, and various remote facilities,” in accordance with the Procurement Documents.

ITEM NO.	BID ITEM	ESTIMATED QUANTITY	UNIT PRICE
1.	Liquid Polyaluminum Chloride		Price per delivered gallon
	SERWTP	15,500 gal	
	JWVWTP	80,000 gal	
2.	PolyDADMAC		Price per delivered gallon
	SERWTP	3,000 gal	
	JWVWTP	25,000 gal	
3.	Powdered Activated Carbon		Price per delivered pound
	SERWTP	44,000 lbs	
	JWVWTP	175,000 lbs	
4.	Sodium Hydroxide (25% soln)		Price per delivered gallon
	SWGWTWP	55,000 gal	
5.	Liquid Chlorine		Price per delivered pound
	JWVWTP 6 to 12 one-ton container lots	450,000 lbs	

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

ITEM NO.	BID ITEM	ESTIMATED QUANTITY	UNIT PRICE
6.	Sodium Hypochlorite TERMINAL RESERVOIR CHLORINE BOOSTER FACILITY 5.25% Solution – 4,200 gal lots	25,000 gal	Price per delivered gallon
	SWGWTP 5.25% Solution – 4,200 gal lots	22,000 gal	
	SODIUM HYPOCHLORITE FEED STATIONS 12% Solution – 350 gal lots 5.25% Solution – 350 gal lots	5,000 gal	
		5,000 gal	
	SERWTP 12% Solution - 4,200 gal lots	65,000 gal	
7.	Sodium Chlorite 25% Solution	75,000 gal	Price per delivered gallon
	JVWTP		
8.	Reverse Osmosis Antiscalant	30,000 lbs	Price per delivered Tote
	SWGWTP 2,500 lb Tote		

BIDDER understands that the Jordan Valley Water Conservancy District reserves the right to reject any or all bids, to waive any formalities in a bid and to make awards in the interest of the OWNER.

Respectfully submitted,

By: _____

Phone: _____

Title: _____

Complete Business Name and Address:

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

BIDDER'S GENERAL INFORMATION

The BIDDER shall furnish the following information with the bid. This general information shall also be used in evaluating the bid. Additional sheets and drawings shall be attached as required. Failure to complete this sheet will cause the bid to be non-responsive and may cause its rejection. In any event, no award will be made until all the BIDDER'S general information is delivered to the OWNER.

Sales Office

Name of Company: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Normal Working Hours: _____

Responsible Personnel: _____ Phone: _____

Person(s) authorized to sign Affidavit of Compliance-Warranty

Normal Working Hours: _____

Responsible Personnel: _____ Phone: _____

Ordering Office

Normal Working Hours: _____

Responsible Personnel: _____ Phone: _____

(During Work Hours) _____

Responsible Personnel: _____

(During Non-Work Hrs) _____

Chemical Emergency Assistance (24 hours/day)

Responsible Personnel: _____ Phone: _____

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

CONTRACT DOCUMENTS

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0050 – PROCUREMENT AGREEMENT

THIS PROCUREMENT AGREEMENT is dated as of the _____ day of _____, 2026, by and between the Jordan Valley Water Conservancy District, (hereinafter called OWNER) and _____ (hereinafter called SUPPLIER). OWNER and SUPPLIER, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1: PRODUCT SUPPLY, DELIVERY AND TECHNICAL SERVICES

SUPPLIER shall furnish chemical supply, delivery, unloading and technical services as specified or indicated in the Procurement Documents. The chemical supply is generally described as follows: Water Treatment Chemicals Supply and Delivery for the Jordan Valley Water Treatment Plant, Southeast Regional Water Treatment Plant, Southwest Groundwater Water Treatment Plant, Sodium Hypochlorite Feed Stations and the Terminal Reservoir Chlorine Booster Facility. (Specific Product(s), and delivery locations will be included in the agreement to be signed by the OWNER and SUPPLIER.)

ARTICLE 2: POINT(S) OF DELIVERY.

The plants where the products are to be delivered are defined in the General Conditions as the point of delivery and designated as: The Jordan Valley Water Treatment Plant (JVVTP) at 15305 South 3200 West, Herriman, Utah; The Southeast Regional Water Treatment Plant (SERWTP) at 11574 South Wyndcastle Drive, Sandy, Utah, Southwest Groundwater Water Treatment Plant (SWGWTP), 8215 S 1300 W, West Jordan, Utah, multiple Sodium Hypochlorite Feed Stations and the Terminal Reservoir Chlorine Booster Facility located at approximately 6000 S. Bangerter Highway (Highway 154).

ARTICLE 3: COMMENCEMENT AND DURATION OF CONTRACT

- 3.1 The SUPPLIER shall provide products and delivery, along with associated technical assistance commencing July 1, 2026 and continuing through June 30, 2027. The SUPPLIER shall make each chemical delivery between two and five calendar days after an order has been placed.
- 3.2 Liquidated damages. OWNER and SUPPLIER recognize that time is critical in this Procurement Agreement and that OWNER will suffer financial loss if the product is not delivered at the point of delivery and ready for acceptance of delivery by OWNER within the time specified in paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 8 of the General Conditions. Further, the OWNER and SUPPLIER recognize the delays, expenses and difficulties involved in proving in a legal or arbitration proceeding the actual losses or damages suffered by OWNER if complete, acceptable chemical supply is not delivered on time. Accordingly, and instead of requiring proof of such losses or damages,

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

OWNER and SUPPLIER agree that as liquidated damages for delay, SUPPLIER shall pay OWNER one thousand dollars (\$1,000) for each day (or part of a day) that expires after the time specified in paragraph 3.1 for delivery of acceptable product. The sum of all damages including but not limited to delays, failure to meet warranties, or patent infringements, shall not exceed the total contract value.

ARTICLE 4: CONTRACT PRICE

OWNER shall pay SUPPLIER for furnishing the product supply, delivery and technical services in accordance with the Procurement Documents in current funds as shown on the SUPPLIER'S bid. Contract price shall include all charges, including but not limited to supply delivery, unloading, technical services and Superfund assessments. Prices shall be firm throughout the duration of this Agreement. The SUPPLIER shall not charge the OWNER demurrage for any cylinders or containers kept by the OWNER for less than 60 days from the time of original shipment.

ARTICLE 5: PAYMENT PROCEDURES

Payment for product(s) received shall be based on the amount delivered. The amount shall be determined from the scale ticket, percent active ingredient or strength of solution, as applicable, and as verified by OWNER'S operator receiving the shipment. The OWNER'S purchase order number shall accompany every request for payment from the SUPPLIER.

ARTICLE 6: PROCUREMENT DOCUMENTS

The Procurement Documents which comprise the entire agreement between OWNER and SUPPLIER concerning the WORK consist of this Agreement and the following attachments to this Agreement:

- Notice Inviting Bids.
- Instructions to Bidders.
- Bid forms including cost schedule(s), information required of bidder, and all required certificates and affidavits.
- General Conditions.
- Technical Specifications.
- Exhibits.
- Change Orders which may be delivered or issued after the effective date of this Agreement and are not attached hereto.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

There are no Procurement Documents other than those listed in this Article 6. The Procurement Documents may only be amended by Change Order as provided in Article 6 of the General Conditions.

ARTICLE 7: MISCELLANEOUS

Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings as indicated.

No assignment by a party of any rights under or interests in the Procurement Documents will be binding on another party without the written consent of the party sought to be bound; and specifically but without limitations monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Procurement Documents.

IN WITNESS WHEREOF, OWNER and SUPPLIER have caused this Agreement to be executed the day and year first above written.

OWNER Jordan Valley Water

SUPPLIER _____

Conservancy District

By _____

By _____

Attest _____

Attest _____

Address for giving notice

Address for giving notice

Jordan Valley Water Conservancy District

15305 South 3200 West

Herriman, Utah 84065

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0060 – GENERAL CONDITONS

ARTICLE 1: DEFINITIONS

Wherever used in these General Conditions or in the other Procurement Documents, the following terms have the meanings indicated below. Terms used in these General Conditions, which are defined in the Procurement Agreement, will have the meanings indicated in the Procurement Agreement.

Addenda: Written or graphic instruments issued prior to the opening of bids which clarify, correct or change the Procurement Documents.

Bid: The offer or bid of the SUPPLIER submitted on the prescribed form setting forth the price(s) for furnishing the product and services.

Change Order: A document, which is signed by SUPPLIER and OWNER and authorizes an addition, deletion or revision in the product or services, or an adjustment in the contract price or the contract time, issued after the effective date of the Procurement Agreement.

Contract Price: The monies payable by OWNER to SUPPLIER under the Procurement Documents.

Contract Time: The number of successive calendar days stated in the Procurement Documents for furnishing the product and services.

Day: A calendar day of 24 hours measured from midnight to the next midnight.

Defect/Defective: Refers to product or services which are unsatisfactory, faulty or deficient, and do not conform to the Procurement Documents or do not meet the requirements of any inspection, reference, standard, test or approval referred to in the Procurement Documents.

FOB Point of Delivery: All transportation charges to the Point of Delivery, including but not limited to switching, trucking, lighterage, and special handling will be paid by the SUPPLIER.

OWNER: The Jordan Valley Water Conservancy District.

Point of Delivery: The place(s) designated in the Procurement Documents where the product is to be delivered.

Procurement Agreement: The agreement made between OWNER and SUPPLIER as of the specified date.

Procurement Documents: The Procurement Documents are as defined in Article 6 of the Procurement Agreement.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

Product: The water treatment chemicals as described in the Procurement Documents, to be supplied and delivered by SUPPLIER.

Services: Services to be furnished to OWNER by SUPPLIER as required by the Procurement Documents.

SUPPLIER: The party which supplies and delivers product and/or services to OWNER.

Technical Specifications: The Technical Specifications as contained in the OWNER'S Procurement Documents.

ARTICLE 2: INTENT OF PROCUREMENT DOCUMENTS

The Procurement Documents comprise the entire agreement between OWNER and SUPPLIER concerning the furnishing of the product and services. The Procurement Documents may be altered only by a Change Order.

2.2 The Procurement Documents are complementary; what is called for by one is as binding as if called by all. If, during performance of the Procurement Agreement, SUPPLIER discovers a conflict, error or discrepancy in the Procurement Documents, SUPPLIER shall so report to OWNER in writing at once and shall obtain a written interpretation or clarification from OWNER before proceeding further; however, SUPPLIER shall not be liable to OWNER for failure to report any conflict, error, or discrepancy in the Procurement Documents unless SUPPLIER had actual knowledge or should reasonably have known of it.

2.3 All product, materials, equipment, and services required by the Procurement Documents to produce the specific result, will be supplied. When words which have a well-known technical or trade meaning are used to describe products, materials, equipment or services, such words will be interpreted in accordance with such meaning. Reference to standard specifications, manuals or codes of any technical society, organizations or association, or to the code of any government authority, whether such reference be specific or implied, shall mean the latest standard specification, manual or code in effect at the effective date of the Procurement Agreement, except as may be otherwise specifically stated. Clarifications and interpretation of the Procurement Documents shall be issued by OWNER.

ARTICLE 3: SHIPMENT AND DELIVERY OF THE PRODUCT

Shipment and delivery of the product shall be in accordance with this article, except as otherwise provided or specified.

3.1 All products will be delivered FOB Point of Delivery. SUPPLIER shall select the means and methods of transportation. All transportation charges, including but not limited to switching, trucking, lighterage, and special handling will be paid by SUPPLIER.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 3.2 All chemical deliveries to the JWWTTP will be required to enter the south end of the JWWTTP property using the westbound lanes of the Mountain View Corridor (Utah State Route 85, approximate mile marker 4.45, at 3200 W). The map below shows access to the plant from Interstate 15. Chemical deliveries from the north will be rejected, and the SUPPLIER will be required to assume responsibility for all shipping delays, traffic tickets or fines associated with using the incorrect approach to the JWWTTP.



- 3.3 OWNER shall inspect the product upon delivery for the sole purpose of identifying the product and general verification of quantities in order to provide a basis for payment. Such inspection will not be construed as final or as acceptance of any product not in conformance with the Procurement Documents. If, when delivered, the product apparently is defective, OWNER will give prompt written notice to SUPPLIER. SUPPLIER shall, without cost to OWNER, correct the defect or replace the product with non-defective product. OWNER may accept delivery of the defective product and remedy the defect as appropriate, with a corresponding reduction in the Contract Price. OWNER may refuse to accept delivery of any product that is defective.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 3.4 SUPPLIER shall offload the chemical at the Point of Delivery in a safe manner, including but not limited to chocking the trailer during offloading, wearing appropriate protective equipment, and performing any required sampling in a clean and safe manner.
- 3.5 SUPPLIER of Powdered Activated Carbon may be directed by the plant operator to offload in a safe and specific manner in order to minimize dust associated with the offloading.

ARTICLE 4: TAXES

SUPPLIER shall pay all sales, consumer, use and other similar taxes required by law to be paid due to the production and delivery of the product and furnishing of services. The OWNER is exempt from paying sales and use taxes. The OWNER'S sales and use tax exemption number is 12060110-002-STC.

ARTICLE 5: SUPPLIER RESPONSIBILITIES

- 5.1 SUPPLIER shall competently and efficiently coordinate all operations required to deliver the product and furnish services. SUPPLIER shall designate in writing to OWNER a person with authority to act on behalf of SUPPLIER with respect to SUPPLIER'S obligations under the Procurement Documents, and all communications given to or received from that person will be binding on SUPPLIER.
- 5.2 Unless otherwise specified by the Procurement Documents, all the materials incorporated in the product will be new and of good quality. All workmanship will be of good quality and free from defects. SUPPLIER shall, if required by OWNER, furnish satisfactory evidence of the source, kind and quality of the materials incorporated in the product. Services will be performed by competent and qualified personnel.
- 5.3 SUPPLIER shall continue performance of the Procurement Agreement during all disputes or disagreements with OWNER. No production of product will be delayed or the timely delivery of product or furnishing of service be prejudiced, delayed or postponed pending resolution of any disputes or disagreements, except as SUPPLIER and OWNER may otherwise agree in writing.
- 5.4 SUPPLIER shall provide OWNER, and other representatives of OWNER, testing agencies, and governmental agencies with jurisdictional interests, proper and safe access to product in the process of production at reasonable times as is necessary for the performance of their functions in connection with the Procurement Documents.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

ARTICLE 6: CHANGES IN THE PRODUCT OR SERVICES

- 6.1 Without invalidating the Procurement Agreement, OWNER may order additions, deletions or revisions in the product or furnishings of services. These changes will be authorized by Change Orders. Upon receipt of a Change Order, SUPPLIER shall proceed based on the change involved.
- 6.2 No change may be made in the product or services without authorization of a Change Order.

ARTICLE 7: CHANGE OF CONTRACT PRICE

- 7.1 The contract price constitutes the total compensation payable to SUPPLIER for furnishing the product and services. All duties, responsibilities and obligations assigned to or undertaken by SUPPLIER shall be at its expense without change in the contract price.
- 7.2 The contract price may be changed only by a Change Order.

ARTICLE 8: CHANGE OF CONTRACT TIME

- 8.1 The contract time may be changed only by a Change Order.
- 8.2 The contract time will be extended in an amount equal to time lost due to delays beyond the reasonable control of the SUPPLIER if a claim is made and substantiated.
- 8.3 All time limits stated in the Procurement Documents are of the essence.

ARTICLE 9: WARRANTY AND GUARANTEE: TESTS AND INSPECTIONS, CORRECTION, REMOVAL OR ACCEPTANCE

- 9.1 SUPPLIER'S obligation to furnish the product and services in accordance with the Procurement Documents is absolute, and SUPPLIER warrants and guarantees to OWNER that all product and services will be in accordance with the Procurement Documents and free from defects. Prompt notice of all observed defects will be given to SUPPLIER. If any defect is found within ten working days of the date of product delivery, the SUPPLIER shall promptly repair or replace the defective product.
- 9.2 Neither any payment by OWNER to SUPPLIER under the Procurement Documents, nor any use of the product by OWNER, nor any act of acceptance by OWNER, nor any failure to do so, nor the issuance of a notice of acceptability by OWNER, nor any correction of defective product or services by OWNER, will constitute an acceptance of product or services not in accordance with the

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

Procurement Documents or a release of SUPPLIER'S obligation to furnish the product and services in accordance with the Procurement Documents.

- 9.3 If at any time OWNER notifies SUPPLIER in writing that any of the product is defective, SUPPLIER shall promptly provide product which conforms to the Procurement Documents. If SUPPLIER fails to do so within ten days, OWNER may obtain the product elsewhere.
- 9.4 All costs of correcting, removing and replacing defective product or of obtaining services elsewhere and of exercising OWNER'S rights and remedies under the Procurement Documents, will be charged against SUPPLIER, and, if incurred prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Procurement Documents and reducing the Contract Price, or if incurred after final payment, an appropriate amount will be paid by SUPPLIER to OWNER. Such costs will include, but are not limited to, compensation for additional services and all costs of repair and/or replacement of product or property of OWNER or others destroyed or damaged by correction, removal or replacement of defective product. SUPPLIER will not be allowed an extension of the Contract Time because of any delay in performance attributable to the exercise by OWNER of OWNER'S rights and remedies under this paragraph.

ARTICLE 10: SUSPENSION, CANCELLATION AND TERMINATION

- 10.1 OWNER may, at any time and without cause, suspend production and/or delivery of the product (or any portion thereof) or the furnishing of services by notice in writing to SUPPLIER. The suspension may not exceed ninety days. Upon fifteen days written notice from OWNER, SUPPLIER shall resume performance. SUPPLIER will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if SUPPLIER makes and substantiates a claim which is approved by the OWNER.
- 10.2 Upon the occurrence of any of the events listed below (10.2 i. through 10.2 vi.), the OWNER may, and after giving SUPPLIER ten days' written notice, terminate the Procurement Agreement.
- i. SUPPLIER commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, U.S. Code), as now or hereafter in effect or if SUPPLIER takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to bankruptcy or insolvency;
 - ii. A petition is filed against SUPPLIER under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against SUPPLIER under any other federal or state law in effect at the time relating to bankruptcy or insolvency;
 - iii. SUPPLIER makes a general assignment for the benefit of creditors;

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- iv. A trustee, receiver, custodian or agent of SUPPLIER is appointed to take charge or property of SUPPLIER for the purpose of enforcing a lien against such property or for the purpose of general administration of such property for the benefit of SUPPLIER'S creditors;
 - v. SUPPLIER is unable to pay its debts generally as they become due; or
 - vi. Breach by SUPPLIER of any provision of the Procurement Documents, and such breach continues for a period of 15 days after written notice to correct the breach from OWNER to SUPPLIER;
- 10.3 Termination of the Procurement Agreement will not affect any rights and remedies of OWNER against SUPPLIER then existing or which may thereafter accrue. Any retention or payment of moneys due SUPPLIER by OWNER will not release SUPPLIER from liability.

ARTICLE 11: SUPPLIER QUALIFICATIONS

SUPPLIER hereby represents and warrants to OWNER that it has furnished similar product and services for water treatment facilities comparable in size (greater than 5 mgd capacity) and complexity to OWNER'S project.

ARTICLE 12: PATENT FEES

- 12.1 SUPPLIER shall pay any royalties and patent license fees required for its performance of the Procurement Documents.
- 12.2 SUPPLIER shall indemnify, defend and hold harmless OWNER, and its Trustees, officers, agents and employees, against all claims or liability arising from any patent, trade secret, know-how, license or copyright in connection with the product.

- END OF SECTION –

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

**TECHNICAL
SPECIFICATIONS**

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0100 – SUMMARY OF WORK

PART 1 – GENERAL

1.01 GENERAL

The WORK to be performed shall consist of furnishing all products, equipment, materials, supplies, and manufactured articles and providing all services, essential communications, and performing all work, or other operations required in strict accordance with the Procurement Documents. The WORK shall be completed, and all work, materials, and services not expressly indicated or called for in the Procurement Documents which may be necessary for the completion of the WORK in good faith shall be provided by the SUPPLIER as though originally so indicated, at no increased cost to the OWNER.

1.02 WORK COVERED BY PROCUREMENT DOCUMENTS

The WORK comprises supplying, delivering, unloading, and providing technical assistance, for certain water treatment chemicals at the OWNER'S Jordan Valley Water Treatment Plant, Southeast Regional Water Treatment Plant, Southwest Groundwater Water Treatment Plant, Sodium Hypochlorite Feed Stations and Terminal Reservoir Chlorine Booster Facility on an as needed basis from July 1, 2026 through June 30, 2027.

- END OF SECTION –

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0200 – LIQUID POLYALUMINUM CHLORIDE

***BID OF TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF LIQUID POLYALUMINUM CHLORIDE***

LIQUID POLYALUMINUM CHLORIDE (PACL) Commercial grade for water treatment purposes to meet the AWWA Standard for Liquid Polyaluminum Chloride, ANSI/AWWA B408-18, including but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B408-18 Sec. 4.1 – *Physical Requirements*

Liquid polyaluminum chloride (PACL) products are clear to slightly hazy solutions, free of visible foreign matter or sediment. The specific gravity of the solution shall be in the range of 1.1 to 1.4. Specific gravity will vary with PACL content and by-product salt content.

ANSI/AWWA B408-18 Sec. 4.2 – *Chemical Requirements*

The minimum polyaluminum chloride content in liquid PACL products shall be 10 percent by weight expressed as aluminum (19 percent by weight PACl expressed as Al_2O_3). The minimum basicity of the PACL shall be 80 percent. The solution shall have turbidity less than 50 NTU.

ANSI/AWWA B408-18 Sec. 4.3 – *Impurities*

4.3.1 – *General*

The liquid PACL product supplied according to this standard shall contain no insoluble or soluble inorganic or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been properly treated with liquid PACL product. This standard applies to liquid PACL produced by currently recognized methods of manufacture and from suitably pure raw materials. If careless manufacturing procedures or other raw materials are used, impurities could be present that might be inconsistent with good water treatment practices. In such cases, additional tests by the SUPPLIER may be required by the OWNER to demonstrate that the product is suitable for water treatment purposes.

4.3.2 – *Product Certifications*

Liquid PACL is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 60. Certification shall be accomplished

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

by a certification organization accredited by the American National Standards Institute.

ANSI/AWWA B408-18 Sec. 5.8 Notice of Nonconformance

If the liquid PACL product delivered to the OWNER does not meet the chemical, physical, safety or security requirements of this standard, the OWNER shall provide a notice of nonconformance to the SUPPLIER within 10 working days after receipt of the shipment at the point of destination. The results of the OWNER'S tests shall prevail, unless the SUPPLIER notifies the OWNER within five working days after receipt of the notice of nonconformance that a retest is desired. On receipt of the request for a retest, the OWNER shall forward to the SUPPLIER one of the sealed samples taken in accordance with Sec. 5.1 of this standard. If the results obtained by the SUPPLIER on retesting do not agree with the tests results obtained by the OWNER, the other sealed sample shall be forwarded, unopened, for analysis to a referee laboratory agreed on by both parties. The results of the referee analysis shall be accepted as final.

In addition, the OWNER has established the following specifications:

Referee Analysis Cost

The cost of the referee analysis shall be paid by the SUPPLIER if the material does not meet the requirements of this standard.

Removal of Material

If the delivered material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed upon between the SUPPLIER and the OWNER.

Bacterial or Fungal Growth

The liquid polyaluminum chloride shall remain clear and free of bacterial or fungus growths for a minimum of two months from date of delivery.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

3. Point(s) of Delivery

- A. Liquid polyaluminum chloride shall be delivered to the following OWNER facilities, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.
 - 1) Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065
 - 2) Southeast Regional Water Treatment Plant
11574 South Wyndcastle Drive (2580 East)
Sandy, Utah 84092
- B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed.
- C. Deliveries shall be made in approximately 3,500 to 5,000 gallon lots.
- D. SUPPLIER shall furnish all equipment necessary to transfer liquid polyaluminum chloride, i.e., pumps, hoses, fittings, air compressor, etc. The cargo trailer unloading hose shall be equipped with a 3-inch female cam-lock coupling which is compatible with the OWNER'S 3-inch male cam-lock couplings.
- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the liquid polyaluminum chloride to the OWNER'S storage tanks. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.
- G. Upon arrival at the OWNER'S facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
 - 1) SUPPLIER'S shipping invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of the Technical Specifications for Supply of Liquid Polyaluminum Chloride)
 - 3) Sample (See Section 5 of Technical Specifications for Supply of Liquid Polyaluminum Chloride)

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 4) Scale ticket (See Section 6 of Technical Specifications for Supply of Liquid Polyaluminum Chloride)

Failure to furnish any of these items may result in rejection of the delivery.

- H. After unloading the liquid polyaluminum chloride, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of liquid polyaluminum chloride verifying and warranting that the liquid polyaluminum chloride being delivered conforms to the specifications of the Technical Specifications for Supply of Liquid Polyaluminum Chloride.
- B. The Affidavit of Compliance-Warranty shall contain the following:
 - 1) Specific Gravity
 - 2) Polyaluminum Chloride content
 - 3) Percent Basicity
 - 4) Percent Al₂O₃
 - 5) Solution Turbidity
 - 6) Lot or Batch Number
 - 7) Date of Manufacture
 - 8) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.
- C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.
- D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the bid.
- E. An Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

- A. Each load of liquid polyaluminum chloride shall be sampled from the cargo trailer at the point of delivery.
- B. The Plant Manager or Operator and truck driver shall take a composite sample from each cargo trailer load to fill three OWNER furnished sample bottles.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- C. Each sample shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.
- D. A chain-of-custody form shall accompany all samples and shall be properly completed by the individuals collecting samples.

6. Scale Ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the state where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining acceptability of the delivered product, the OWNER will use Section 5 of AWWA Standard B408-18, which specifies verification procedures. Liquid polyaluminum chloride not meeting these specifications shall be subject to the provisions of Technical Specifications for Supply of Liquid Polyaluminum Chloride, entitled "Chemical Specifications."

8. Payment

Payment for liquid polyaluminum chloride shall be based on the amount delivered into the OWNER'S storage tanks. The amount shall be determined from the net weight of the shipment as determined by the scale ticket and the specific gravity of the solution as contained in the affidavit of compliance-warranty. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring tank levels before and after the shipment.

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of liquid polyaluminum chloride, the SUPPLIER shall send three copies of the SDS to the delivery site.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- A. Sales office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel
- B. Ordering office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel
- C. Chemical emergency assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

11. Approval

If the bid product has not been used previously and approved by the OWNER, the SUPPLIER, at the request of the OWNER, shall furnish a minimum of 5 gallons of the product bid, at no cost to the OWNER. The OWNER will use the sample during the coming year, from July 1, 2026 to June 30, 2027, to determine the acceptability of the product to fulfill the treatment objectives of the OWNER. If the product is determined by the OWNER to be acceptable, the bid product will be considered as part of future bids. If the product is determined by the OWNER to be unacceptable, the bid product will be rejected.

The following polyaluminum chloride has been used by the OWNER and is approved:

Summit Research Labs, Sumaclear 750, Sumalchlor 50
Kemiron PAX – XL19
Westchlor FA 2000
Thatcher Company T-Floc B135
USALCO CC 2000

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the liquid polyaluminum chloride delivered to _____(Location)_____ on _____(Date)_____, by _____(SUPPLIER'S Name)_____ in trailer(s) _____(Number(s))_____, order number _____(Number)_____, fully complies with the OWNER'S "BID of Technical Specifications for Supply of Liquid Polyaluminum Chloride".

(Authorized Signature)

(Title)

(Date)

1. Specific Gravity _____
2. Polyaluminum Chloride Content _____ %
3. Percent Basicity _____ %
4. Percent Al₂O₃ _____ %
5. Solution Turbidity _____ NTU
6. Lot or Batch Number _____
7. Date of Manufacture _____

Certifying
agency
seal or
logo

Certified to NSF/ANSI 60

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0300 – polyDADMAC

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF PolyDADMAC**

PolyDADMAC Commercial grade poly(diallyldimethylammonium chloride) (polyDADMAC) for water treatment purposes, to meet the AWWA Standard for polyDADMAC, ANSI/AWWA B451-23, including but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B451-23 Sec. 4.1 – *Materials*

Materials shall comply with the requirements of the Safe Drinking Water Act and other federal regulations for potable water.

ANSI/AWWA B451-23 Sec. 4.2.1 – *Product Certifications*

PolyDADMAC is a direct additive used in the treatment of potable water. This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 60. Certification shall be accomplished by a certification organization accredited by the American National Standards Institute.

ANSI/AWWA B451-23 Sec. 4.5 – *Chemical and Physical Requirements*

4.5.1 – *Appearance (visual inspection)*

The polyDADMAC product shall be free from visible foreign matter and sediment. Color may vary from colorless to amber. The product is usually clear but may exhibit slight turbidity. Viscosity may vary from relatively low to relatively high, depending on the individual product's polymer content and molecular weight.

ANSI/AWWA B451-23 Sec. 4.6.1 – *Impurities*

PolyDADMAC supplied according to this standard shall contain no substances in quantities capable of producing deleterious or injurious effect to the health of those consuming water that has been treated with polyDADMAC in accordance with the SUPPLIER'S recommendations and within the maximum allowed dosage.

ANSI/AWWA B451-23 Sec. 5.8 – *Notice of Nonconformance*

If the material delivered to the OWNER does not meet the chemical, physical, safety, or security requirements of this standard, the OWNER shall provide a notice of nonconformance to the SUPPLIER within 10 days after receipt of the shipment at the point of destination. The results of the OWNER's test shall prevail unless the SUPPLIER notifies the OWNER within 5 days after receipt of the notice of nonconformance that a retest is desired. On receipt of the request for a retest, the

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

OWNER shall forward to the SUPPLIER one of the sealed samples taken in accordance with Sec. 5.1. In the event that the result obtained by the SUPPLIER on a retesting does not agree with the test results obtained by the OWNER, the other sealed sample shall be forwarded, unopened, for analysis to a referee laboratory agreed on by both parties. The results of the referee analysis shall be accepted as final.

In addition, the OWNER has established the following specifications:

Active Ingredient

The active ingredient shall be poly(dimethyldiallylammonium chloride) (polyDADMAC). Percent of active ingredient shall be 20 ± 1 percent. Other products may be considered on a case-by-case basis, after in-house pilot testing.

Biological Contamination

The polyDADMAC shall be free from biological contamination.

Stability

The polyDADMAC shall have a shelf life of a minimum of twelve months from date of delivery.

Referee Analysis Cost

The results of the referee analysis shall be accepted as final. The cost of the referee analysis shall be paid by the SUPPLIER if the material does not meet the requirements of this standard.

Removal of material

If the delivered material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed upon between the SUPPLIER and the OWNER.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

A. PolyDADMAC shall be delivered to the following OWNER facilities, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 1) Southeast Regional Water Treatment Plant
11574 South Wyndcastle Drive (2580 East)
Sandy, Utah 84092
 - 2) Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065
- B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed.
- C. Bulk deliveries shall be made in approximately 3,000 to 4,500 gallon lots.
- D. SUPPLIER shall furnish all equipment necessary to transfer polyDADMAC, i.e. pumps, hoses, fittings, air compressor, etc. The cargo trailer unloading hose shall be equipped with a 3-inch female cam-lock coupling for deliveries to the Southeast Regional Water Treatment Plant and a 2-inch female cam-lock coupling for deliveries to the Jordan Valley Water Treatment Plant which will be compatible with the OWNER'S male cam-lock couplings.
- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the polyDADMAC to the OWNER'S storage tanks. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.
- G. Upon arrival at the OWNER'S facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
- 1) SUPPLIER'S shipping invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of the Technical Specifications for Supply of polyDADMAC)
 - 3) Sample (See Section 5 of the Technical Specifications for Supply of polyDADMAC)
 - 4) Scale ticket (See Section 6 of the Technical Specifications for Supply of polyDADMAC)

Failure to furnish any of these items may result in rejection of the delivery.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

H. After unloading the polyDADMAC, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of polyDADMAC verifying and warranting that the polyDADMAC being delivered conforms to the specifications of the Technical Specification for Supply of polyDADMAC.

B. The Affidavit of Compliance-Warranty shall contain the following:

- 1) Percent Active PolyDADMAC
- 2) Molecular Weight
- 3) Residual Monomer
- 4) Specific Weight of the Solution
- 5) Date of Manufacture
- 6) Lot or Batch Number
- 7) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.

C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.

D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the bid.

E. The Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

A. Each load of polyDADMAC shall be sampled from the cargo trailer at the point of delivery.

B. The Plant Manager or Operator and truck driver shall take a composite sample from each cargo trailer load to fill three OWNER furnished sample bottles.

C. Each sample shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.

D. A chain-of-custody form shall accompany all samples and shall be properly completed by the individuals collecting samples.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

6. Scale Ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the State where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining acceptability of the delivered product, the OWNER will use Section 5 of ANSI/AWWA Standard B451-23 which specifies testing procedures. PolyDADMAC not meeting these specifications shall be subject to the provisions of Section 1 of the Technical Specifications for Supply of polyDADMAC entitled "Chemical Specifications".

8. Payment

Payment for the polyDADMAC shall be based on the amount delivered into the OWNER'S storage tanks. The amount shall be determined from the net weight of the shipment as determined by the scale ticket, and the specific weight of solution as contained in the Affidavit of Compliance-Warranty. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring tank levels before and after the shipment.

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of polyDADMAC, the SUPPLIER shall send three copies of the SDS to the delivery site.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sales Office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- B. Ordering Office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel

- C. Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the liquid cationic polymer delivered to _____ (Location) _____ on _____ (Date) _____, by _____ (SUPPLIER'S Name) _____ in trailer(s) _____ (Number(s)) _____, order number _____ (Number) _____, fully complies with the OWNER'S "Technical Specifications for Supply of Liquid Cationic Polymer".

(Authorized Signature)

(Title)

(Date)

1. Active PolyDADMAC _____ %
2. Molecular Weight _____
3. Residual Monomer _____ %
4. Specific Weight of Solution _____ pounds/gallon
5. Date of Manufacture _____
6. Lot or Batch Number _____

Certifying
agency
seal or
logo

Certified to NSF/ANSI 60

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0400 – POWDERED ACTIVATED CARBON

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF POWDERED ACTIVATED CARBON**

POWDERED ACTIVATED CARBON Commercial grade for water treatment purposes to be certified to meet the AWWA Standard for Powdered Activated Carbon, ANSI/AWWA B600-16, including, but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B600-16 Sec. 4.2.1 – *Moisture*

The moisture content of the powdered activated carbon shall not exceed eight percent by weight, of the listed container contents as packaged or at the time of shipment by the SUPPLIER in the case of a bulk shipment. The moisture content shall be determined according to Sec. 5.2.3.

ANSI/AWWA B600-16 Sec. 4.2.2 – *Apparent Density*

The apparent density of the powdered activated carbon shall not be less than 0.2g/cc nor greater than 0.75 g/cc, as determined according to Sec. 5.2.4.

ANSI/AWWA B600-16 Sec. 4.2.3 – *Particle Size Distribution*

The particle-size distribution shall be determined according to Sec. 5.2.5. Unless otherwise specified by the OWNER, not less than 99 percent of the powdered activated carbon shall pass a No 100 sieve, not less than 95 percent shall pass a No. 200 sieve, and not less than 90 percent shall pass a No. 325 sieve, unless the activated carbon is wood based. For wood-based activated carbons, not less than 95 percent of the activated carbon shall pass a No. 100 sieve, not less than 85 percent shall pass a No. 200 sieve, and not less than 60 percent shall pass a No. 325 sieve.

ANSI/AWWA B600-16 Sec. 4.2.4 – *Iodine Number*

The iodine number of the powdered activated carbon shall be determined according to Sec. 5.2.6. The iodine number of the powdered activated carbon shall not be less than 500 mg/g.

ANSI/AWWA B600-16 Sec. 4.4.1 – *General Impurities*

The powdered activated carbon supplied according to this standard shall contain no substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been properly treated with powdered activated carbon.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

ANSI/AWWA B600-16 Sec. 5.3.1 Notice of Nonconformance

If the powdered activated carbon delivered does not meet the requirements of this standard or the OWNER'S specifications, a notice of nonconformance must be provided by the OWNER to the SUPPLIER within 15 days after receipt of the shipment at the point of destination. The results of the OWNER'S test shall prevail unless the SUPPLIER notifies the OWNER within five days of the notice of nonconformance that a retest is desired. On receipt of the request for a retest, the OWNER shall forward to the SUPPLIER one of the sealed samples taken according to Sec. 5.1 of ANSI/AWWA B600-16. In the event that the results obtained by the SUPPLIER on retesting do not agree with the results obtained by the OWNER, the other sealed sample shall be forwarded, unopened, for analysis to a referee laboratory agreed on by both parties. The results of the referee's analysis shall be accepted as final.

In addition, the OWNER has established the following specifications:

Product Certifications

Powdered Activated Carbon is a direct additive used in the treatment of potable water. This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 61, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 61. Certification shall be accomplished by a certification organization accredited by the American National Standards Institute.

Removal of Material

If the material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed on between the SUPPLIER and the OWNER.

Referee Analysis Cost

The cost of the referee analysis shall be paid by the SUPPLIER if the material does not meet the requirements of this standard.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least ten calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

A. Powdered activated carbon shall be delivered to the following OWNER facilities, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 1) Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065
 - 2) Southeast Regional Water Treatment Plant
11574 South Wyndcastle Drive (2580 East)
Sandy, Utah 84092
- B. The SUPPLIER shall make the deliveries between seven and fourteen calendar days after an order has been placed.
- C. Deliveries shall be made in approximately 30,000 to 40,000 pound lots.
- D. SUPPLIER shall furnish all equipment necessary to transfer the powdered activated carbon, i.e., hoses, fittings, air compressor, etc.
- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the powdered activated carbon to the OWNER'S hoppers. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.
- G. Upon arrival at the OWNER facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
- 1) SUPPLIER'S shipping invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of the Technical Specifications for Supply of Powdered Activated Carbon)
 - 3) Sample (See Section 5 of the Technical Specifications for Supply of Powdered Activated Carbon)
 - 4) Scale ticket (See Section 6 of the Technical Specifications for Supply of Powdered Activated Carbon)

Failure to furnish any of these items may result in rejection of the delivery.

- H. After unloading the powdered activated carbon, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance Warranty with each delivery of powdered activated carbon verifying and warranting that the powdered activated carbon being delivered conforms to the specifications of the Bid for Technical Specifications for Supply of Powdered Activated Carbon.
- B. The Affidavit of Compliance-Warranty shall contain the following:
 - 1) Moisture Content
 - 2) Apparent Density
 - 3) Particle Size Distribution
 - 4) Iodine Number
 - 5) Date of Manufacture
 - 6) Lot or Batch Number
 - 7) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 61.
- C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.
- D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the bid.
- E. An Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

- A. Due to difficulties obtaining a representative sample of activated carbon from a bulk delivery trailer, the SUPPLIER shall provide the OWNER with a one-liter sealed sample of the product taken during loading of the delivery trailer. The sample shall be representative of the product delivered to the OWNER.
- B. The Plant Manager or Operator shall divide the SUPPLIER provided sample into three sample bottles.
- C. Each sample bottle shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.
- D. A chain-of-custody form shall accompany all samples and shall be properly completed by the operator collecting samples.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

6. Scale Ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the State where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining acceptability of the delivered product, the OWNER will use Section 5.2 of ANSI/AWWA Standard B600-16, which specifies testing procedures. Powdered activated carbon not meeting these specifications shall be subject to the provisions of the Technical Specifications for Supply of Powdered Activated Carbon, entitled "Chemical Specifications."

8. Payment

Payment for the powdered activated carbon shall be based on the amount delivered into the OWNER'S hoppers. The amount shall be determined from the net weight of the shipment as determined by the scale ticket. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring hopper levels before and after the shipment.

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of powdered activated carbon, the SUPPLIER shall send three copies of the SDS to the delivery site.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sale Office
 - 1) Address
 - 2) Telephone
 - 3) Normal working hours
 - 4) Responsible personnel
- B. Ordering Office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 3) Responsible personnel
- C. Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the powdered activated carbon delivered to _____ (Location) on _____ (Date), by _____ (SUPPLIER'S Name) in trailer(s) _____ (Number(s)), order number _____ (Number), fully complies with the OWNER'S "Technical Specifications for Supply of Powdered Activated Carbon".

(Authorized Signature)

(Title)

(Date)

1. Moisture Content _____ %
2. Apparent Density _____ g/cc
3. Particle Size Distribution:
 Passing No. 100 Sieve _____ %
 Passing No. 200 Sieve _____ %
 Passing No. 325 Sieve _____ %
4. Iodine Number _____
5. Date of Manufacture _____
6. Lot or Batch Number _____

Certifying
agency
seal or
logo

Certified to NSF/ANSI 61

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0500 – SODIUM HYDROXIDE

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF SODIUM HYDROXIDE**

LIQUID SODIUM HYDROXIDE Commercial grade for water treatment purposes to meet the AWWA Standard for Sodium Hydroxide, ANSI/AWWA B501-19, including, but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B501-19 Sec. 4.2.2 – *Liquid Sodium Hydroxide*

Liquid sodium hydroxide supplied according to the provisions of this standard shall contain approximately 25 percent sodium hydroxide (NaOH).

ANSI/AWWA B501-19 Sec. 4.3.1 – *General Impurities*

Liquid sodium hydroxide supplied according to this standard shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been treated properly with the sodium hydroxide.

ANSI/AWWA B501-19 Sec. 4.3.2 – *Product Certifications*

Sodium hydroxide is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 60. Certification shall be accomplished by a certification organization accredited by the American National Standards Institute.

ANSI/AWWA B501-19 Sec. 5.6 - *Notice of Nonconformance*

If the sodium hydroxide delivered to the OWNER does not meet the chemical, physical, safety or security requirements of this standard, the OWNER shall provide a notice of nonconformance to the SUPPLIER within 10 days after receipt of the shipment at the Point of Delivery. The results of the OWNER'S tests shall prevail unless the SUPPLIER notifies the OWNER within five working days after receipt of the complaint that a retest is desired. On receipt of the request for a retest, the OWNER shall forward to the SUPPLIER one of the sealed samples taken in accordance with Sec. 5.1 of ANSI/AWWA B501-19. In the event that the test results obtained by the SUPPLIER do not agree with the test results obtained by the OWNER, the third sealed sample shall be forwarded, unopened, to a referee laboratory agreed on by both parties. The results of the referee analysis shall be accepted as final.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

In addition, the OWNER has established the following specification:

Referee Analysis Cost

The cost of the referee analysis shall be paid by the SUPPLIER if the material does not meet the requirements of this standard.

Removal of Material

If the delivered material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed on between the SUPPLIER and the OWNER.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

- A. Sodium hydroxide shall be delivered to the following OWNER facility, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.
 - 1) Southwest Groundwater Water Treatment Plant
8215 South 1300 West
West Jordan, Utah 84084
- B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed.
- C. Deliveries shall be made in approximately 3,000 to 4,500 gallon lots.
- D. SUPPLIER shall furnish all equipment necessary to transfer sodium hydroxide, i.e. pumps, hoses, fittings, air compressor, etc. The cargo trailer unloading hose shall be equipped with a 3-inch female cam-lock coupling which is compatible with the OWNER'S 3-inch male cam-lock couplings.
- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the sodium hydroxide to the OWNER'S storage tanks. The truck driver shall wear, during unloading, appropriate protective face, head, body, and respiratory protection apparel as

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.

- G. Upon arrival at the OWNER facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
- 1) SUPPLIER'S shipping invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of the Technical Specifications for Supply of Sodium Hydroxide)
 - 3) Sample (See Section 5 of the Technical Specifications for Supply of Sodium Hydroxide)
 - 4) Scale ticket (See Section 6 of the Technical Specifications for Supply of Sodium Hydroxide)

Failure to furnish any of these items may result in rejection of the delivery.

- H. After unloading the sodium hydroxide, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of sodium hydroxide verifying and warranting that the sodium hydroxide being delivered conforms to the specifications of the Technical Specifications for Supply of Sodium Hydroxide.
- B. The Affidavit of Compliance-Warranty shall contain the following:
- 1) Percent Sodium Hydroxide
 - 2) Specific Weight of the Solution
 - 3) Date of Manufacture
 - 4) Lot or Batch Number
 - 5) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.
- C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.
- D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the Bid.
- E. An Affidavit of Compliance-Warranty shall accompany each delivery.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

5. Sampling

- A. Each load of sodium hydroxide shall be sampled from the cargo trailer at the point of delivery.
- B. The Plant Manager or Operator and truck driver shall take a composite sample from each cargo trailer load to fill three OWNER furnished sample bottles.
- C. Each sample shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.
- D. A chain-of-custody form shall accompany all samples and shall be properly completed by the individuals collecting samples.

6. Scale Ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the State where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining acceptability of the delivered product, the OWNER will use Section 5 of ANSI/AWWA Standard B501-19, which specifies verification procedures. Sodium hydroxide not meeting these specifications shall be subject to the provisions of the Technical Specifications for Supply of Sodium Hydroxide.

8. Payment

Payment for the sodium hydroxide shall be based on the amount delivered into the OWNER'S storage tanks. The amount shall be determined from the net weight of the shipment as determined by the scale ticket and the specific weight of the solution as contained in the Affidavit of Compliance-Warranty. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring the tank levels before and after the shipment.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of sodium hydroxide, the SUPPLIER shall send three copies of the SDS to the delivery site.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sales Office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel
- B. Ordering Office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel
- C. Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the sodium hydroxide delivered to _____ (Location) _____ on ____ (Date) _____, by _____ (SUPPLIER'S Name) _____ in trailer(s) _____ (Number(s)) _____ order number _____ (Number) _____, fully complies with the OWNER'S "Technical Specifications for Supply of Sodium Hydroxide".

(Authorized Signature)

(Title)

(Date)

1. Percent Sodium Hydroxide _____
2. Specific Weight of Solution _____ pounds/gallon
3. Date of Manufacture _____
4. Lot or Batch Number _____

Certifying
agency
seal or
logo

Certified to NSF/ANSI 60

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0600 – LIQUID CHLORINE

***TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF LIQUID CHLORINE***

LIQUID CHLORINE Commercial grade for water treatment purposes to meet the AWWA Standard for Liquid Chlorine, ANSI/AWWA B301-24, including, but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B301-24 Sec. 4.2 – *Chemical Requirements*

The liquid chlorine supplied according to this standard shall be not less than 99.5 percent pure by volume as determined by analyzing the chlorine by the method described in Sec. 5.3.2.1.

ANSI/AWWA B301-24 Sec. 4.3.1 – *General*

The liquid chlorine supplied under this standard shall contain no substances in quantities capable of producing deleterious or injurious effect upon the health of persons consuming water that has been treated properly with the liquid chlorine.

ANSI/AWWA B301-24 Sec. 4.3.2 – *Product Certifications*

Liquid chlorine is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 60. Certification shall be performed by a certification organization accredited by the American National Standards Institute.

All chlorine used in water disinfection is required to be registered with USEPA under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

ANSI/AWWA B301-24 Sec. 4.3.3 – *Moisture*

The liquid chlorine supplied shall be dry chlorine. Moisture shall not exceed 150 ppm (0.015 percent), by weight.

ANSI/AWWA B301-24 Sec. 4.3.4 – *Lead, mercury and arsenic*

4.3.4.1 Lead shall not exceed 10 ppm (0.001 percent) reported as lead.

4.3.4.2 Mercury shall not exceed 1 ppm (0.0001 percent) reported as mercury.

4.3.4.3 Arsenic shall not exceed 3 ppm (0.0003 percent) reported as metallic arsenic.

ANSI/AWWA B301-24 Sec. 4.3.5 – *Nonvolatile Residue*

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

The total residue shall not exceed 150 ppm (0.015 percent), by weight, in liquid chlorine, as packaged in cylinders or ton containers.

ANSI/AWWA B301-24 Sec. 4.3.6 – Carbon Tetrachloride

Carbon tetrachloride shall not exceed 16 ppm (0.0016 percent). Testing for carbon tetrachloride is not required unless a carbon tetrachloride tail gas scrubbing system is used in the chlorine production unit, or if it is used as a diluent for nitrogen trichloride.

ANSI/AWWA B301-24 Sec. 4.3.7 – Trihalomethanes

Trihalomethanes shall not exceed 267 ppm (0.0267 percent).

ANSI/AWWA B301-24 Sec. 5.4 – Notice of Nonconformance

If the material or its container delivered to the OWNER does not meet the chemical, physical, or safety requirements of this standard, a notice of nonconformance shall be provided by the OWNER to the SUPPLIER within 5 days after receipt of shipment to the Point of Delivery.

In addition, the OWNER has established the following specification:

Containers

Chlorine containers shall be free of rust and other physical contaminants that may plug or otherwise restrict the flow of chlorine in the OWNER'S feed system. If the OWNER'S feed equipment collects such contaminants, and OWNER determines it is likely caused by the SUPPLIER'S containers, it shall be the basis for rejection of future shipments of liquid chlorine from the SUPPLIER. The SUPPLIER shall reimburse the OWNER for time and materials, as deemed necessary by OWNER, to correct the problems caused to the OWNER'S feed system. The SUPPLIER shall also supply proof of the satisfactory condition of every container shipped before liquid chlorine deliveries are accepted again, if at all.

Additional information required for supply of liquid chlorine is found in **SECTION 00200 – INSTRUCTIONS TO BIDDERS.**

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

A. Liquid chlorine shall be delivered to the following OWNER facility, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.

- 1) Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065

B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed. Deliveries may arrive on any weekday; an occasional weekend delivery during peak season may also be accepted.

C. Deliveries shall be made in shipments of 6 to 12 one-ton containers. OWNER will endeavor to request the maximum number of containers during peak season. OWNER will order fewer containers during non-peak season, as determined at its sole discretion.

D. OWNER shall furnish a crane and associated equipment necessary for unloading one-ton containers from SUPPLIER'S trailer. The crane shall be in proper working condition.

E. All cargo trailers and shipping containers shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.

F. The SUPPLIER shall be responsible for delivering the liquid chlorine to the OWNER'S unloading dock. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER. OWNER personnel shall be responsible for unloading of the SUPPLIER'S truck.

G. Upon arrival at the OWNER facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. The Plant Manager or Operator receiving the shipment will visually inspect each shipping container to determine if

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

the container appears to be in satisfactory condition prior to granting approval. Prior to unloading, the SUPPLIER shall be required to furnish the following items:

- 1) SUPPLIER'S shipping invoice
- 2) Affidavit of Compliance-Warranty (Section 4 of Technical Specifications for Supply of Liquid Chlorine)
- 3) Tag indicating gross, tare and net weights of each container.

Failure to furnish any of these items or unsatisfactory conditions of the shipping containers may result in rejection of the delivery. After unloading the liquid chlorine, the truck driver shall assist the Plant Manager or Operator receiving the shipment in removing container protective bonnets in a safe and reasonable manner, prior to inspection of container valves.

- H. After unloading the liquid chlorine, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for damage to the facilities caused by the truck driver. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.
- I. The SUPPLIER shall furnish evidence of complete and adequate safety and emergency response training of all drivers that deliver liquid chlorine to OWNER facilities. Failure to furnish evidence of drivers' training may result in rejection of the bid. Drivers are to be trained in the use of a chlorine "B" kit and shall have a complete "B" kit on board at all times during shipping and delivery. Drivers shall be trained and certified in the use of a SCBA and must have an SCBA onboard the truck for emergency use.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of liquid chlorine verifying and warranting that the liquid chlorine being delivered conforms to the specifications of Technical Specifications for Supply of Liquid Chlorine.
- B. The Affidavit of Compliance-Warranty shall contain the following:
 - 1) Chlorine purity.
 - 2) Moisture content (% by weight)
 - 3) Lead (ppm)
 - 4) Mercury (ppm)
 - 5) Arsenic (ppm)
 - 6) Nonvolatile Residue (ppm)
 - 7) Carbon Tetrachloride (ppm)
 - 8) Trihalomethanes (ppm)

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

9) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.

C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.

D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the bid.

E. An Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

Because of the nature of liquid chlorine, no sampling is required. However, the SUPPLIER is still required to provide an Affidavit of Compliance-Warranty as described in Section 4 of Technical Specifications for Supply of Liquid Chlorine.

6. Scale Ticket

Each container of liquid chlorine shall have a scale ticket clearly marked with gross weight and tare weight. Proof of current scale certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining the acceptability of the delivered product, the OWNER will use Section 4 of AWWA Standard B301-24, which specifies testing procedures. Liquid chlorine not meeting these specifications shall be subject to the provisions of Technical Specifications for Supply of Liquid Chlorine.

8. Payment

Payment for the liquid chlorine shall be based on the amount delivered. The amount shall be determined by subtracting the tare weight stamped on the container(s) from the gross weight as determined by the SUPPLIER. The SUPPLIER shall not charge the OWNER demurrage for any container kept at OWNER facilities for less than 60 days from the time of original shipment.

9. Safety Data Sheet

A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.

B. Prior to the first delivery of liquid chlorine, the SUPPLIER shall send three copies of the SDS to the delivery site.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sales Office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel

- B. Ordering Office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel

- C. Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the liquid chlorine delivered to _____ (Location) _____ on ___ (Date) _____, by _____ (SUPPLIER'S Name) _____ in trailer(s) _____ (Number(s)) _____, order number _____ (Number) _____, fully complies with the OWNER'S "Technical Specifications for Supply of Liquid Chlorine".

(Authorized Signature)

(Title)

(Date)

1. Chlorine Purity _____ %
2. Moisture Content _____ % by weight
3. Lead _____ ppm
4. Mercury _____ ppm
5. Arsenic _____ ppm
6. Nonvolatile Residue _____ ppm
7. Carbon Tetrachloride _____ ppm
8. Trihalomethanes _____ ppm

Certifying
agency
seal or
logo

Certified to NSF/ANSI 60

SECTION 0700 – SODIUM HYPOCHLORITE

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF SODIUM HYPOCHLORITE**

SODIUM HYPOCHLORITE Commercial grade for water treatment purposes to meet the AWWA Standard for Hypochlorites, ANSI/AWWA B300-18, including but not limited to the following:

1. Chemical Specifications

Materials shall comply with the requirements of the Safe Drinking Water Act and other federal regulations for potable water, wastewater systems and reclaimed water as applicable. All hypochlorites used in water disinfection are required to be registered with US Environmental Protection Agency (USEPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

ANSI/AWWA B300-18 Sec. 4.1.3.1 – *Physical Requirements*

Sodium hypochlorite solution shall be a clear liquid containing not more than 0.15 percent insoluble matter by weight.

ANSI/AWWA B300-18 Sec. 4.2.3 – *Sodium Hypochlorite*

Sodium hypochlorite shall contain not less than the trade percent bid in the COST SCHEDULE – UNIT PRICE for each location.).

ANSI/AWWA B300-18 Sec. 4.2.3.1 – *Chemical Requirements*

The total free alkali (expressed as NaOH) in sodium hypochlorite shall not exceed 1.5 percent by weight.

ANSI/AWWA B300-18 Sec. 4.3.1 – *General*

The hypochlorites supplied according to this standard shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been treated properly with the hypochlorites.

ANSI/AWWA B300-18 Sec. 4.3.2 – *Product Certifications*

Hypochlorites are direct additives used in the treatment of potable water. This material should be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be performed in accordance with requirements that are no less restrictive than those listed in NSF/ANSI Standard 60. Certification shall be performed by a certification organization accredited by ANSI.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

ANSI/AWWA B300-18 Sec. 5.3 – *Notice of Nonconformance*

If the sodium hypochlorite delivered to the OWNER does not meet the chemical, physical, safety, or security requirements of this standard, the OWNER shall provide a written notice of nonconformance to the SUPPLIER within 24 hours after receipt of the shipment at the Point of Delivery. The results of the OWNER'S test shall prevail unless the SUPPLIER notifies the OWNER within five days after receipt of the notice of nonconformance that a retest is desired. On receipt of the request for a retest, the OWNER shall forward to the SUPPLIER one of the sealed samples taken in accordance with ANSI/AWWA B300-18 Sec. 5.1 of ANSI/AWWA B300-18. If the results obtained by the SUPPLIER on retesting do not agree with the test results obtained by the OWNER, the third sealed sample shall be forwarded, unopened, to a referee laboratory agreed on by both parties for analysis. The results of the referee's analysis shall be accepted as final.

In addition, the OWNER has established the following specification:

Referee Analysis Cost

The cost of the referee analysis shall be paid by the SUPPLIER if the material does not meet the requirements of this standard.

Removal of material

If the delivered material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed on between the SUPPLIER and the OWNER.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

A. Sodium hypochlorite shall be delivered to the following OWNER facility, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.

- 1) Southwest Groundwater Water Treatment Plant
8215 South 1300 West
West Jordan, Utah 84084
- 2) Southeast Regional Water Treatment Plant (full loads)
11574 South Wyndcastle Drive (2580 East)
Sandy, Utah 84092

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 3) Sodium Hypochlorite Feed Station (800 gallon storage)
1784 Creek Road
Sandy, UT 84093
- 4) Sodium Hypochlorite Feed Station (535 gallon storage)
8148 S 1330 E
Sandy, UT 84093
- 5) Sodium Hypochlorite Feed Station (1000 gallon storage)
8578 Monitor Dr
Sandy, UT 84093
- 6) Sodium Hypochlorite Feed Station (420 gallon storage)
275 E Carol Way
Midvale, UT 84047
- 7) Sodium Hypochlorite Feed Station (535 gallon storage)
1362 E 6400 S
Murray, UT 84121
- 8) Sodium Hypochlorite Feed Station (420 gallon storage)
4670 S 1590 E
Salt Lake City, UT 84117
- 9) Sodium Hypochlorite Feed Station (420 gallon storage)
1028 E College St
Salt Lake City, UT 84117
- 10) Terminal Reservoir Chlorine Booster Facility (9000 gallon storage)
Approximate entrance to facility:
6000 S Bangerter Highway, Southbound (Utah State Route 154)
Taylorsville, UT

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026



- B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed.
- C. Deliveries to each site are to be made in the quantity and strength listed in the COST SCHEDULE – UNIT PRICE.
- D. SUPPLIER shall furnish all equipment necessary to transfer sodium hypochlorite, i.e., pumps, hoses, fittings, air compressor, etc. The cargo trailer unloading hose shall be equipped with a 3-inch female cam-lock coupling which is compatible with the OWNER'S 3-inch male cam-lock couplings.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the sodium hypochlorite to the OWNER'S storage tanks. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.
- G. Upon arrival at an OWNER facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
 - 1) SUPPLIER'S shipping invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of Technical Specifications for Supply of Sodium Hypochlorite)
 - 3) Sample (See Section 5 of Technical Specifications for Supply of Sodium Hypochlorite)
 - 4) Scale ticket (See Section 6 of Technical Specifications for Supply of Sodium Hypochlorite)

Failure to furnish any of these items may result in rejection of the delivery.

- H. After unloading the sodium hypochlorite, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of sodium hypochlorite verifying and warranting that the sodium hypochlorite being delivered conforms to the specifications of Technical Specifications for Supply of Sodium Hypochlorite.
- B. The Affidavit of Compliance-Warranty shall contain the following:
 - 1) Available Chlorine
 - 2) Insoluble Matter by Weight
 - 3) Total Free Alkali, as NaOH
 - 4) Specific Weight of Solution

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- 5) Date of Manufacture
- 6) Lot or Batch Number
- 7) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.

- C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.
- D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the Bid.
- E. An Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

- A. Each load of sodium hypochlorite shall be sampled from the cargo trailer at the point of delivery.
- B. The Plant Manager or Operator and truck driver shall take a composite sample from each cargo trailer load to fill three OWNER furnished sample bottles.
- C. Each sample shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.
- D. A chain-of-custody form shall accompany all samples and shall be properly completed by the individuals collecting samples.

6. Scale ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the state where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for compliance with the technical specifications. In determining acceptability of the delivered product, the OWNER will use Section 4 of ANSI/AWWA Standard B300-18, which specifies testing procedures. Sodium hypochlorite not meeting these specifications shall be subject to the provisions of Technical Specifications for Supply of Sodium Hypochlorite.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

8. Payment

Payment for the sodium hypochlorite shall be based on the amount delivered into the OWNER'S storage tanks. The amount shall be determined from the net weight of the shipment as determined by the scale ticket, and the specific weight of the solution as contained in the Affidavit of Compliance-Warranty. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring tank levels before and after shipment.

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of sodium hypochlorite, the SUPPLIER shall send three copies of the SDS to the delivery site.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sales Office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel
- B. Ordering Office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel
- C. Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

EXHIBIT A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the sodium hypochlorite delivered to _____ (Location) _____ on _____ (Date) _____, by _____ (SUPPLIER'S Name) _____ in trailer(s) _____ (Number(s)) _____, order number _____ (Number) _____, fully complies with the OWNER'S "Technical Specifications for Supply of Sodium Hypochlorite".

(Authorized Signature)

(Title)

(Date)

1. Available Chlorine _____ trade %
2. Insoluble Matter, by Weight _____ %
3. Total Free Alkali, as NaOH _____ %
4. Specific Weight of Solution _____ pounds/gallons
5. Date of Manufacture _____
6. Lot or Batch Number _____

Certifying
agency
seal or
logo

Certified to NSF/ANSI 60

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0800 - AQUEOUS SODIUM CHLORITE

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF AQUEOUS SODIUM CHLORITE**

AQUEOUS SODIUM CHLORITE Commercial grade for water treatment purposes to meet the AWWA Standard for Sodium Chlorite, ANSI/AWWA B303-24, including but not limited to the following:

1. Chemical Specifications

ANSI/AWWA B303-24 Sec. 4.1.2 – Physical Requirements – *Aqueous sodium chlorite solution.*

Aqueous sodium chlorite solution may be clear and light-tan to straw-brown in color. The clarity shall permit the reading of flow-measuring devices without difficulty.

ANSI/AWWA B303-24 Sec. 4.2.2 – Chemical Requirements – *Aqueous sodium chlorite solution*

Aqueous sodium chlorite solution shall contain 25 percent by weight NaClO₂.

ANSI/AWWA B303-24 Sec. 4.3.1 – Impurities – *General*

The material supplied according to this standard shall contain no soluble inorganic or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been properly treated with the material. These quantities shall not be capable of causing water so treated to exceed USEPA safe drinking water standards.

ANSI/AWWA B303-24 Sec. 4.3.2 – Impurities – *Purity*

Aqueous sodium chlorite based on 80 percent sodium chlorite content shall contain no more than the following percentages of specific impurities by weight:

- | | |
|---------|-------------------------------|
| 4.3.2.1 | Sodium chloride, 19.0 percent |
| 4.3.2.2 | Sodium hydroxide, 3.0 percent |
| 4.3.2.3 | Sodium carbonate, 2.0 percent |
| 4.3.2.4 | Sodium sulfate, 3.0 percent |
| 4.3.2.5 | Arsenic, 0.0003 percent |
| 4.3.2.6 | Sodium nitrate, 0.1 percent |
| 4.3.2.7 | Sodium chlorate, 4.0 percent |

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

ANSI/AWWA B303-24 Sec. 4.3.3 – Impurities - *Product certification*

The material is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with NSF/ANSI 60. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI 60. Certification shall be accomplished by a certification organization accredited by the American National Standards Institute.

ANSI/AWWA B303-24 Sec. 5.12 - *Notice of nonconformance*

If material delivered to the OWNER does not meet the chemical, physical, safety or security requirements of this standard, the OWNER shall provide a notice of nonconformance to the SUPPLIER within 10 days after receipt of the shipment at the Point of Delivery. The results of the OWNER'S tests shall prevail unless the SUPPLIER notifies the OWNER within five days after receipt of the notice of nonconformance that a retest is desired. On receipt of the request for a retest, the OWNER shall forward to the SUPPLIER one of the sealed samples taken in accordance with Sec. 5.1. In the event that the test results obtained by the SUPPLIER do not agree with the test results obtained by the OWNER, the remaining sealed sample shall be forwarded, unopened, to a referee laboratory agreed on by both parties. The results of the referee analysis shall be accepted as final.

In addition, the OWNER has established the following specifications:

Removal of material

If the delivered material does not meet the requirements of this standard, the SUPPLIER shall remove the material from the premises of the OWNER, or a price adjustment may be agreed upon between the SUPPLIER and the OWNER.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point(s) of Delivery

A. Aqueous sodium chlorite shall be delivered to the following OWNER facility, between the hours of 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

Jordan Valley Water Treatment Plant
15305 South 3200 West
Herriman, Utah 84065

- B. The SUPPLIER shall make the deliveries between two and five calendar days after an order has been placed.
- C. Deliveries shall be made in approximately 4,200 to 4,500 gallon lots.
- D. SUPPLIER shall furnish all equipment necessary to transfer aqueous sodium chlorite, i.e., pumps, hoses, fittings, air compressor, etc. The cargo trailer unloading hose shall be equipped with a 3-inch female cam-lock coupling which is compatible with the OWNER'S 3-inch male cam-lock couplings.
- E. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- F. The SUPPLIER shall be responsible for delivering the aqueous sodium chlorite to the OWNER'S storage tanks. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet on file with the chemical SUPPLIER.
- G. Upon arrival at the OWNER'S facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
 - 1) SUPPLIER'S Shipping Invoice
 - 2) Affidavit of Compliance-Warranty (See Section 4 of Technical Specifications for Supply of Aqueous Sodium Chlorite)
 - 3) Sample (See Section 5 of Technical Specifications for Supply of Aqueous Sodium Chlorite)
 - 4) Scale Ticket (See Section 6 of Technical Specifications for Supply of Aqueous Sodium Chlorite)

Failure to furnish any of these items may result in rejection of the delivery.

- H. After unloading the aqueous sodium chlorite, and prior to leaving the OWNER facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the shipment. Approval to leave will be granted after the site has been inspected for spillage and damage to the facilities caused by the truck driver. All spillage must be cleaned up by the truck driver before obtaining approval to leave the site. Any damage found shall be documented by the Plant Manager

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit an Affidavit of Compliance-Warranty with each delivery of aqueous sodium chlorite verifying and warranting that the aqueous sodium chlorite being delivered conforms to the specifications of Technical Specifications for Supply of Aqueous Sodium Chlorite.
- B. The Affidavit of Compliance-Warranty shall contain the following:
 - 1) Percent NaClO₂, by weight
 - 2) Percent sodium chloride, by weight
 - 3) Percent sodium hydroxide, by weight
 - 4) Percent sodium carbonate, by weight
 - 5) Percent sodium sulfate, by weight
 - 6) Percent arsenic, by weight
 - 7) Percent sodium nitrate, by weight
 - 8) Percent sodium chlorate, by weight
 - 9) Specific weight of solution
 - 10) Date of manufacture
 - 11) Lot or batch number
 - 12) The official logo or stamp of the agency certifying compliance with NSF/ANSI Standard 60.
- C. The Affidavit of Compliance-Warranty shall be in the form described in Exhibit A.
- D. The person(s) authorized to certify the Affidavit of Compliance-Warranty for the SUPPLIER shall be as stated on the Bid.
- E. An Affidavit of Compliance-Warranty shall accompany each delivery.

5. Sampling

- A. Each load of aqueous sodium chlorite shall be sampled from the cargo trailer at the point of delivery.
- B. The truck driver shall take a sample from each cargo trailer load, and sample in the presence of the Plant Manager or Operator receiving the shipment.
- C. Each sample shall be labeled with the date, chemical name, shipping invoice number, and sampler's name.
- D. A chain-of-custody form shall accompany all samples and shall be properly completed by the individuals collecting samples.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

6. Scale Ticket

The scale ticket shall contain the gross weight and tare weight of the delivery vehicle. The scale shall be certified by the State where the scale ticket is issued. Proof of current certification shall accompany every scale ticket.

7. Testing

In determining acceptability of the delivered product, the OWNER will use Section 5 of ANSI/AWWA Standard B303-24, which specifies testing procedures. Aqueous sodium chlorite not meeting these specifications shall be subject to the provisions of Technical Specifications for Supply of Aqueous Sodium Chlorite.

8. Payment

Payment for the aqueous sodium chlorite shall be based on the amount delivered into the OWNER'S storage tanks. The amount shall be determined from the net weight of the shipment as determined by the scale ticket. The Plant Manager or Operator receiving the shipment shall verify the amount delivered by measuring tank levels before and after the shipment.

9. Safety Data Sheet

- A. The SUPPLIER shall furnish a copy of a completed Safety Data Sheet (SDS) with the Bid. Failure to furnish a completed SDS may result in rejection of the bid.
- B. Prior to the first delivery of aqueous sodium chlorite, the SUPPLIER shall send three copies of the SDS to the delivery sites.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

- A. Sales Office
 - 1) Address
 - 2) Telephone number(s)
 - 3) Normal working hours
 - 4) Responsible personnel
- B. Ordering office
 - 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
 - 2) Normal working hours
 - 3) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

- C) Chemical Emergency Assistance (24 hours/day)
 - 1) Telephone number(s)
 - 2) Responsible personnel

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

E X H I B I T A

(SUPPLIER'S Letterhead)

AFFIDAVIT OF COMPLIANCE-WARRANTY

This affidavit is to certify and warrant to the Jordan Valley Water Conservancy District that the aqueous sodium chlorite delivered to _____ (Location) on _____ (Date), by _____ (SUPPLIER'S Name) in trailer(s) _____ (Number(s)), order number _____ (Number), fully complies with the OWNER'S "Technical Specifications for Supply of Aqueous Sodium Chlorite."

(Authorized Signature)

(Title)

(Date)

- 1) NaClO₂ content, by weight _____ %
- 2) Sodium chloride content, by weight _____ %
- 3) Sodium hydroxide content, by weight _____ %
- 4) Sodium carbonate content, by weight _____ %
- 5) Sodium sulfate content, by weight _____ %
- 6) Arsenic content, by weight _____ %
- 7) Sodium nitrate content, by weight _____ %
- 8) Sodium chlorate content, by weight _____ %
- 9) Specific weight of solution _____ pounds/gallon
- 10) Date of Manufacture _____
- 11) Lot or Batch number _____

Certifying
agency
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Certified to NSF/ANSI 60

Chemical Procurement Bid
EMAILED on April 14, 2026

SECTION 0900 – REVERSE OSMOSIS ANTISCALANT

**TECHNICAL SPECIFICATIONS
FOR
SUPPLY OF REVERSE OSMOSIS ANTISCALANT**

REVERSE OSMOSIS ANTISCALANT The material is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with NSF/ANSI 60. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI 60. Certification shall be accomplished by a certification organization accredited by the American National Standards Institute. There is no AWWA standard for Reverse Osmosis Antiscalant. The following product has proven to be effective for its intended purpose; no equal will be considered.

1. Chemical Specifications

Avista Technologies, Inc., Vitec™ 4000

General. The Antiscalant supplied according to this specification shall contain no mineral or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been properly treated with Antiscalant.

Product certifications. Antiscalant is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects. Evaluation shall be accomplished in accordance with requirements that are no less restrictive than those listed in NSF/ANSI 60. Certification shall be performed by a certification organization accredited by the American National Standards Institute.

2. Placement of Orders

Orders shall be accepted by the SUPPLIER from the OWNER'S representatives between 8 a.m. and 5 p.m., Monday through Friday, excluding State holidays. The OWNER shall endeavor to place all orders at least two calendar days prior to the date of desired delivery.

3. Point of Delivery

A. Antiscalant shall be delivered to the following OWNER facility, between the hours of 6 a.m. and 4 p.m., Monday through Friday, excluding State holidays.

- 1) Southwest Groundwater Water Treatment Plant

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
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8215 South 1300 West
West Jordan, Utah 84088

- B. The SUPPLIER shall make the deliveries within two weeks after an order has been placed.
- C. Deliveries shall be multiple 2500-pound drums.
- D. All cargo trailers and unloading equipment shall be in good working condition and shall be in full compliance with the applicable requirements of the Hazardous Materials Regulations of the Department of Transportation, Code of Federal Regulations, as currently issued.
- E. The SUPPLIER shall be responsible for delivering the Antiscalant to the OWNER'S facility. The OWNER shall offload the drum from the rear of the delivery truck using a forklift. The truck driver shall wear, during unloading, appropriate protective face, hand, body, and respiratory protection apparel as required by the Utah Occupational Safety and Health Act and the current Safety Data Sheet (SDS) on file with the chemical SUPPLIER.
- F. Upon arrival at the OWNER'S facility, approval to unload must be obtained from the Plant Manager or Operator receiving the shipment. Prior to unloading, the SUPPLIER shall be required to furnish the following items:
 - 1) SUPPLIER'S shipping invoice
 - 2) Technical Data Sheet
 - 3) Current Safety Data Sheet

Failure to furnish any of these items may result in rejection of the delivery.

- G. After unloading the Antiscalant, and prior to leaving the OWNER'S facility, the truck driver shall obtain approval to leave from the Plant Manager or Operator receiving the equipment. Approval to leave will be granted after the site has been inspected for damage to the facilities caused by the truck driver. Any damage found shall be documented by the Plant Manager or Operator receiving the shipment and paid for by the SUPPLIER upon billing by the OWNER.

4. Affidavit of Compliance-Warranty

- A. The SUPPLIER shall submit a current Technical Data Sheet in lieu of an Affidavit of Compliance-Warranty with each delivery of Antiscalant

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Chemical Procurement Bid
EMAILED on April 14, 2026

5. Sampling

The OWNER shall collect a representative sample from the drums delivered and fill three 250 mL sample bottles that shall be used for analysis if the OWNER suspects a problem with the chemical as delivered.

6. Testing

The OWNER reserves the right to test any, all, or none of the deliveries for suitability and performance for its intended purpose as a Reverse Osmosis Antiscalant.

7. Payment

Payment for Antiscalant shall be based on the amount delivered to the OWNER'S facility.

9. Safety Data Sheet

A. The SUPPLIER shall furnish a copy of a completed SDS with the bid. Failure to furnish a completed SDS may result in rejection of the bid.

10. Information of SUPPLIER

The SUPPLIER shall furnish the following information with the bid on the form provided.

A. Sales office

- 1) Address
- 2) Telephone number(s)
- 3) Normal working hours
- 4) Responsible personnel

B. Ordering office

- 1) Telephone number(s)
 - a) During working hours
 - b) During non-working hours
- 2) Normal working hours
- 3) Responsible personnel

C. Chemical emergency assistance (24 hours/day)

- 1) Telephone number(s)
- 2) Responsible personnel