



PURCHASE ORDER

Fiscal Year 2025 Page 1 of 1

PURCHASE ORDER DETAILS

Purchase Order Number 22503237  
Purchase Order Date 05/28/2025  
Department UTILITIES

OUR P.O. # MUST APPEAR ON ALL INVOICES,  
PACKAGES AND CORRESPONDENCE

Bill To BILL  
CITY OF BROKEN ARROW  
ATTN: ACCOUNTS PAYABLE  
P.O. BOX 610  
BROKEN ARROW, OK 74013-0610

Ship To SHIP  
1700 W DETROIT ST  
ATTN: PURCHASING  
BROKEN ARROW, OK 74012

Vendor 3376  
STEWARD TANK CONSULTING INC  
7476 N 197TH E AVE  
OWASSO, OK 74055

VENDOR PHONE NUMBER	VENDOR EMAIL	VENDOR NUMBER	REQUISITION NUMBER	BUYER NAME	DELIVERY REFERENCE
918-812-3006		3376	12505165	Dampf, Blake	

NOTES

ITEM #	DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED PRICE
1	Chloramine Booster System for 5Million Gallon Tank & Contract Services for system activation, chemical lines, and tank mixer. Ship Email: <a href="mailto:BDAMPF@BROKENARROWOK.GOV">BDAMPF@BROKENARROWOK.GOV</a>	1.0000	EACH	\$20,446.0000	\$20,446.00

Approver Name: Apodaca, Elaine

Approval Date: 05/27/2025

  
AUTHORIZED SIGNATURE

Purchase Order Total \$20,446.00

- 1) Invoices to be rendered in duplicate. ATTN: Accounts Payable Department.
- 2) No back orders accepted.
- 3) No substitutions of material described will be accepted without prior approval.
- 4) The City of Broken Arrow is exempt from payment of Oklahoma Sales Tax and Federal Excise Tax by State Statute 0568, Article 13, Section 1305, Para 1.
- 5) Deliveries acknowledged subject to inspection by purchaser.
- 6) It is agreed that purchaser shall be entitled to any and all cash discounts allowed by seller if payment is made within 30 days after receipt of invoice.



May 14, 2025

Re: Broken Arrow Municipal Authority – Chloramine Booster System Installations Services at Battle Creek Water Storage Tank

The extents of the requested quote for services encompasses installation services of the new Chloramine Booster System (CBS) trailer and apparatuses for a 6month pilot project at Battle Creek Storage Tank, 801 W. Omaha St., Broken Arrow, OK 74012. This project is unique as City forces and contracted electrical services will be performing portions of the project scope; thus, the scope of services for this portion of work shall be quoted given the following elements:

- Procurement & installation of (2) 1" conduits with magnetic Unistrut connections from the proposed trailer location, up the sidewall of the tank, and terminated within the access hatch of the tank. Provide appropriate 90 deg sweep bend within the hatch, at the tank sidewall, and at the tank base. Extend conduit out 15' from sidewall of tank at base.
- Procurement & installation of chemical feed lines for the following:
  - o 5/8" chemical feed line for Sodium Hypochlorite
  - o 3/8" chemical feed line for Liquid AmmoniaThe chemical feed lines shall be installed individually within the 1" conduits installed and shall be a continuous run from the trailer location to the tank hatch and suspended a minimum of 30' into the water tank directly above the new Big Wave mixer. Contractor shall make all terminations into the steel hatch and is included in this proposal. The contractor shall fabricate a weighted end condition for the chemical feed lines within the tank and shall be such that the lines are both included within the apparatus.
- Removal of the existing PAX water mixer system including the in-tank assembly and associated electrical lead, PAX controls assembly at the exterior of the tank, and electrical connections. The main power to the electrical panel shall be removed prior to this contractors work
- Installation of the new Big Wave water mixer system including the in-tank assembly and associated electrical lead, Big Wave controls assembly, connection of provided communications wiring, and connection of electrical services to the new mixer. The main power to the new control panel will be connected by separate contractor.
- Provide installation support during the startup of the CBS trailer during June 10<sup>th</sup> & 11<sup>th</sup> as needed. Services to include connection of chem feed lines to trailer, verification of chem feed line operations, and staff training on mixer/chem feed system as needed.

Please see attached for supplied plans and project specifics for your reference.



Please prepare your quotes to include labor, material costs, equipment costs, and profit & overhead as needed to perform the project complete in place. With exception of the support services, this work shall be completed prior to June 9<sup>th</sup>; include the multiple mobilizations within the proposal. Please also follow the below breakdown for the structure of your quote:

Base Quote: BAMA Chloramine Booster System Installations Services at Battle Creek Water Storage Tank – Lump Sum

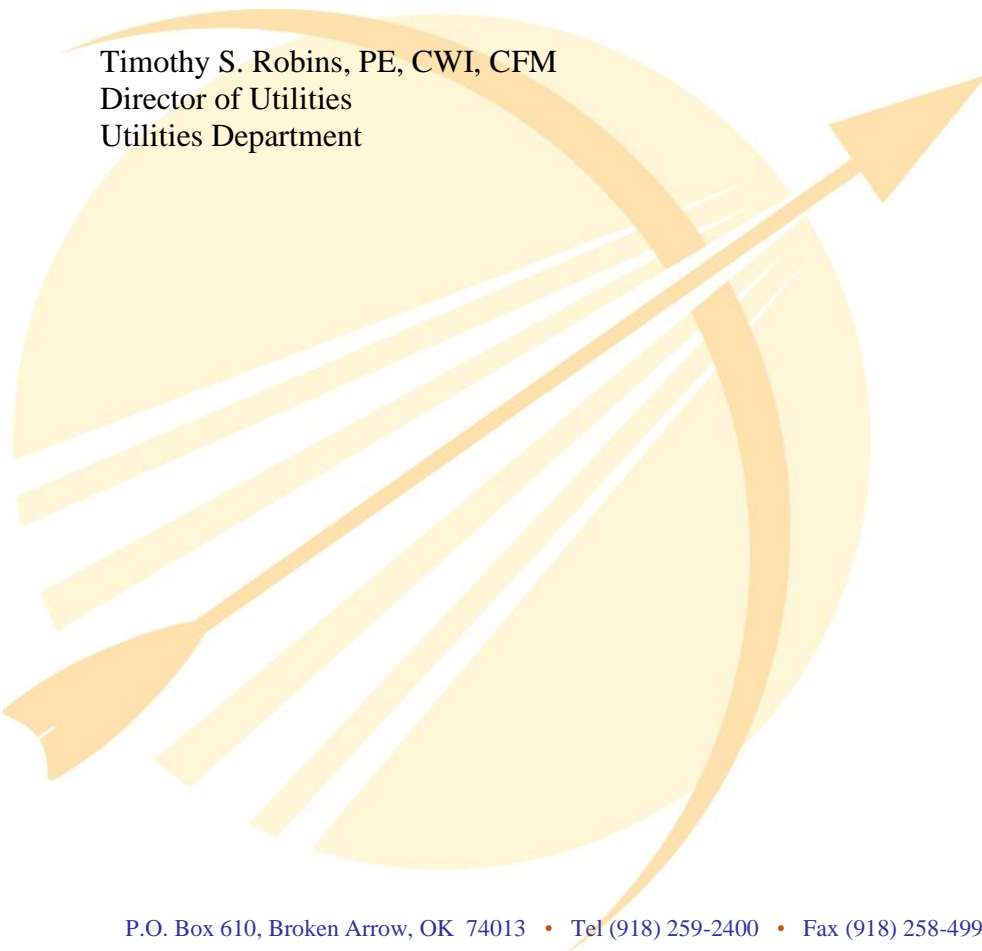
To review site conditions prior to quote or if you have any questions, please coordinate with Timothy Robins at 918-644-6494 or Jordan Grace at 918-259-7000 ext.7393.

Please submit quotation on a company letterhead via email to [Trobins@brokenarrowok.gov](mailto:Trobins@brokenarrowok.gov) as soon as possible.

Please do not include tax on your submission, as this project is tax exempt.

Thank you,

Timothy S. Robins, PE, CWI, CFM  
Director of Utilities  
Utilities Department



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**INTEROFFICE MEMO**

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**To: Purchasing Department**  
**From: Timothy S. Robins, PE – Utilities Department Director**  
**Date: May 19, 2025**  
**RE: 5MG CBS Project Installation Services – Steward Tank Consulting**

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The Chloramine Booster System project is a pilot test project being implemented by the Utilities Department, and will be located at the 5million-gallon tank located at Elm Place and 51<sup>st</sup> street. The intension of the project is to maintain the required state mandated water disinfection residuals within the storage tank through the use of onsite disinfectant chemical addition. This remote chemical treatment is performed using a specialty remote dosing system provided by Big Wave Technologies. While the technology incorporated within the trailer is relatively similar to traditional chemical dosing systems, the controls technology and setups are proprietary to specific companies; with the two systems available being Big Wave Technologies and PAX Water Technologies. It's important to note that this type of system has not been approved by the state for standard use; this will be the first installation in the state of Oklahoma for a trial basis only.

As part of the implementation of the Chloramine Booster System pilot project, there are certain portions of the project that require specialized knowledge and experience in installation of chloramine booster systems. As such, City forces searched for local contractors who had experience in installation of these system. Big Wave Technologies reported that they do not have any contractors in Oklahoma as a referred installation contractor as this is the first installation in the state. Steward Tank Consulting, whom is the preferred tank cleaning and inspections contractor for the City, is reportedly the preferred contractor for PAX Water Technologies and has installed numerous booster stations throughout Texas and has years of experience with the systems.

With the mixture of in-house construction/implementation, contractor installation work, and vendor supply and start-up, having a contractor who understands the chemical dosing system is critical to the startup of this project. Thus, after searching for local contractors who are experienced in this type of installation, Steward Tank Consulting was the only vendor found who can work with the tight time frame, installation execution methods, and experience and understanding of the system being installed. A critical part of the quote supplied by Steward Tank is facilitation of startup and troubleshooting of the system during operation, making the experience aspect the most important.

Thus, Utilities Staff requests waiver of the multiple bidding stipulations as allowed within Section e. Sole Source Purchases within part V – Purchases in General of the Broken Arrow Purchasing Manual.

Steward Tank Consulting, Inc.  
7476 N 197th East Ave  
Owasso, OK 74055-8231 USA  
+19188123006  
steve@stewardtank.com  
www.stewardtank.com

# Proposal



## ADDRESS

Mr. Jerry Hanewinkel  
City of Broken Arrow  
485 N. Poplar Ave.  
Broken Arrow, OK 74012 USA

PROPOSAL #	DATE	
1579	05/15/2025	

## JOB/TANK NAME

BAMA Battle Creek

## TANK SIZE

5 MG

## LOCATION

801 W Omaha St

ACTIVITY	QTY	RATE	AMOUNT
<b>Mobilization</b> Mobilization and Set-up & Return Start-up	2	750.00	1,500.00
<b>Installation of Tidal Wave Mixer</b> Installation of Big Wave Tidal Wave Mixer in Tank following the removal of the existing PAX PWM-400 tripod mixer.  -Install to include mounting of Control Panel in place of the existing PAX control panel & connection of mixer side wiring.  -Installation of stainless eyebolt to secure retrieval chain.  -Wiring connection from control panel to mixer.  Installation cost assumes removal of existing PAX PWM-400 Mixer and its corresponding Control Panel and replacement with Big Wave Controller utilizing existing Unistrut mounting rack.	1	3,596.00	3,596.00
<b>Chlorine Nylobrade Tubing</b> Braid-Reinforced PVC Hose   3/8" ID x 0.600" OD x 0.113"	1	750.00	750.00
<b>Tubing - Red</b> 3/8" ODs X .250" IDx .062 Red PE Tubing Ammonia	1	500.00	500.00
<b>Estech Magnet Mounts Unistrut Ends</b> Magnetic Unistrut conduit bracket mounts  At <=7' spacing 2 bracket ends per mount = 25 bracket total  Price includes: SS Magnet mount ends, SS Unistrut, SS connecting hardware, shipping, & assembly.	25	210.00	5,250.00
<b>Big Wave Chemical Line Installation</b> Installation of Big Wave Chemical lines up the tank sidewall and across the tank roof utilizing Estech Magnet mounts placed every 7'. The chemical delivery lines will be ran inside two separate 1" Schedule 40 PVC conduits.  Two 1-3/8th inch penetrations will be made in the tank roof hatch to allow for the chemical lines to enter the	2	2,900.00	5,800.00

ACTIVITY	QTY	RATE	AMOUNT
tank and be lowered above the Tidal Wave mixer.			
Pricing includes: 1" SCH 40 PVC conduit, fittings, and necessary installation hardware.			
STCI shall be responsible for conduit installation 15' from tank base up tank sidewall and across roof to roof access hatch only.			
<b>Chemical Feed Nozzle</b> Supply and Installation of STCI Manufactured SS Chemical Injection Feed Nozzles	1	850.00	850.00
<b>Rental</b> 85' JLG Manlift	1	2,200.00	2,200.00
<b>New Exclusions</b> Steward Tank Consulting, Inc. (STCI) shall not be responsible for the following: 1. Supply of system controllers, mixer, mixer controller, strain relief, mixer power cable, recovery chain, S.S. shackles, safety disconnects, feed skid, pumps, containment skids, chemical supply/storage tanks or FRP structures. 2. Supply of power to any of the controllers or equipment. 3. Connection of incoming power to mixer controller. *Note if power is not supplied to controller at time of installation STCI will not be able to test and confirm mixer operation. STCI will not be responsible to return and confirm operation of mixer at a later date. 4. SCADA connection or integration, trenching, coatings, permits, heat tracing, insulation, radiological/magnetic locates, welding, tank penetrations, concrete penetrations, concrete work, tank cleaning or disinfection, samples, installation of electrical outlets, inspection, or engineering. 5. Supply or installation of ANY chlorine gas injection equipment or pumps. 6. Supply or installation of lighting fixture, signs, mounting brackets on concrete surfaces or steel surfaces, powered vents, water or air heaters, pressure tanks, sinks, showers, drains and/piping, controllers/switches, existing line locates, supply of return pump (WQS), start-up of system, training, permits, any below grade conduit supply or installation, installation of pull boxes, pipe raceways, sumps, sewer connection, or water supply piping and installation to chlorine room. 7. STCI shall provide no secondary piping from ammonia feed skid or chlorine supply to well injection point. 8. STCI shall not be responsible for the supply or installation of the tank water sampling port/valve. 9. STCI shall not be responsible for the supply or installation of heat tracing or insulation of any kind. 10. STCI shall not provide trenching or filling whatsoever. 11. STCI shall not make any connection to waterlines or manipulate any below grade valves.  STCI shall not be responsible for any liquidated damages whatsoever.	1	0.00	0.00

Please pay with check or ACH only.  
We no longer accept Credit Card Payments  
We propose hereby to furnish material and labor - complete and in accordance with the above specification for the sum of:

SUBTOTAL	20,446.00
TAX	0.00
TOTAL	<b>\$20,446.00</b>

All material is guaranteed to be as specified. All work to be completed in a substantial workmanlike manner according to specifications submitted, per standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Note: This proposal may be withdrawn by us if not accepted within 45 days.  
Customer is responsible for all tax.

If Tax Exempt - please provide tax exempt status letter along with approved proposal and/or Purchase Order

Payment due upon completion of work.

Respectfully submitted by : Steve Woodward

Accepted By

Accepted Date