

Memorandum Public Works Department



To: City Manager
Subject: Water/Wastewater Treatment Chemical Purchases - 2023
Date: March 16, 2023
Number: 2023-056

On November 30, 2022 the Bi-State Regional Commission Joint Purchasing Council awarded bids for water/wastewater treatment chemicals to be purchased in the coming year. Attached is a copy of the bid results for your review with the awarded vendors highlighted in yellow.

Calendar year 2023 budget was estimated by utilizing the same cost per lb/gal/ton, etc for each chemical ahead of knowing what the final bids would be. All of the bids came in significantly higher than the estimated \$550,000 (water) and \$125,000 (sewer) amounts that were budgeted for 2023 chemical purchases pertaining to this bid. Chemical usage and optimization will continue to be a priority for plant staff, which could potentially result in additional savings and spending within the budget.

<u>ITEM</u>	<u>VENDOR</u>	<u>QUANTITY/UNIT PRICE</u>	<u>TOTAL</u>
Aluminum Sulfate	USALCO	600 tons @ \$414.03/ton (Water)	\$248,418
Anhydrous Ammonia	Tanner Industries	30,000 lbs @ \$1.26/lb (Water)	\$37,800
Activated Carbon	Cabot Norit Americas, Inc.	30 tons @ \$2,160.00/ton (Water)	\$64,800
Caustic Soda	Rowell Chemical	185 tons @ \$1,150.00/ton (Water)	\$212,750
Chlorine (Ton Cyl.)	Alexander Chemical	70 tons @ \$2,699.00/ton (Water)	\$188,930
Chlorine (Ton Cyl.)	Alexander Chemical	14 tons @ \$2,699.00/ton (Sewer)	\$37,786
Chlorine (150 lb)	Hawkins Inc	2,400lbs @ \$1.51/lb (Water)	\$3,624
Hydrofluosilicic acid	Alexander Chemical	46,000 lbs @ \$0.279/lb (Water)	\$12,834
Potassium Permanganate	Chemrite Inc	12,000 lbs @ \$2.72/lb(Water)	\$32,640
Phosphoric Acid	Chemrite Inc	45,500 lbs @ \$1.68/lb (Water)	\$76,440
Sodium Hypochlorite	Hawkins Inc	49,500gal @ \$2.20/gal (Sewer)	\$108,900
Ferric Chloride	Kemira	30,000gal @ \$0.177/gal (Sewer)	\$5,310

<u>ITEM</u>	<u>VENDOR</u>	<u>QUANTITY/UNIT PRICE</u>	<u>TOTAL</u>
Polymer 4520	ChemWater	70,000gal @ \$1.37/lb (Water)	\$95,900
Polymer 4460	ChemWater	14,400gal @ \$2.53/lb (Water)	\$36,432
Sodium Bisulfite	Hawkins Inc	15,000gal @ \$4.00/gal (Sewer)	\$60,000

Recommendation

The Public Works Department recommends that the City Council accept the bids for the items listed above and authorize them for purchase in 2023.

Water Account Chargeable:	\$1,010,568.00
Fund: 501	Water Operations/Maintenance
Division: 618	Utilities Services
Cost Center: 352	Water Treatment Plant
Object Code: 52217	Treatment Chemicals
Wastewater Account Chargeable:	\$211,996.00
Fund: 506	Wastewater Operations/Maintenance
Division: 618	Utilities Services
Cost Center: 341	Mill Street Plant
Object Code: 52217	Treatment Chemicals

Submitted by: Michael Bartels, Public Works Director
Jason Upton, Utilities Superintendent

Approved by: Todd Thompson, City Manager