

**Memorandum
Public Works Department**



To: City Manager
Subject: Water Treatment Chemical Purchases - 2016
Date: December 7, 2015
Number: 2015-249

On December 2, 2015 the Bi-State Regional Commission Joint Purchasing Council awarded bids for water 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. The one non-bid item from Hawkins Water Treatment Group is included. This is a proprietary blend coagulant used in the clarification process.

Calendar year 2016 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. The majority of the bids came in slightly lower than estimated. \$550,000 has been budgeted for calendar year 2016 for chemical purchases. Chemical usage optimization will continue to be a priority for the water plant staff, which could potentially result in additional savings.

<u>ITEM</u>	<u>VENDOR</u>	<u>QUANTITY/UNIT PRICE</u>	<u>TOTAL</u>
Aluminum Sulfate	USALCO	550 tons @ \$396.56/ton	\$218,108.00
Anhydrous Ammonia	Tanner Industries	35,000 lbs @ \$0.81/lb	\$28,350.00
Carbon	Cabot Norit Americas, Inc.	10 tons @ \$1,360.00/ton	\$13,600.00
Caustic Soda	Alexander Chemical Corporation	185 tons @ \$466.00/ton	\$86,210.00
Chlorine	Viking Chemical	75 tons @ \$360.00/ton	\$27,000.00
Hydrofluosilic acid	Mosaic Crop Nutrition, LLC	85,000 lbs @ \$0.213/lb	\$28,105.00
AF 4460	Custom Chemical Solutions	50 drums @ \$1.82/lb	\$40,950.00
Potassium Permanganate	Carus Corporation	12,000 lbs @ \$1.80/lb	\$22,560.00
Phosphoric Acid	Brenntag Great Lakes	45,000 lbs @ \$0.495/lb	\$22,275.00
TOTAL BID:			\$487,230.00

Recommendation

The Public Works Department recommends that the City Council accept the bids for the items listed above and authorize them for purchase in 2016.

Account Chargeable:

Fund:	501	Water Operations/Maintenance
Division:	618	Utilities Services
Cost Center:	352	Water Treatment Plant
Object Code:	52217	Treatment Chemicals

Submitted by: Randall D. Tweet, Public Works Director
Larry P. Cook, Utilities Superintendent

Approved by: Thomas Thomas, City Manager

Joint Purchasing Council - 2016 Water Treatment Chemicals – October 29, 2015
Final Results – Awarded vendors are in yellow.

SUPPLIER	COST PER UNIT	TOTAL
1. Aluminum Sulfate (Alum) - Bulk tank truck		
Affinity Chemical, LLC	\$329.95/ton	\$527,920.00
USALCO Michigan City Plant, LLC	\$396.56	\$634,496.00
Univar USA	\$450.00/ton – See Note 9	\$720,000.00
Harcros Chemicals	\$480.00/dry ton	\$768,000.00
Rowell Chemical Corporation	\$490.00/dry ton	\$784,000.00
Chemtrade Chemicals U.S., LLC	\$528.00/dry ton – See Note 3	\$844,800.00
2. Anhydrous Ammonia - Bulk tank truck		
Tanner Industries	\$.81/lb.	\$69,660.00
3. Anthracite Filter Coal - 1 ton bulk sacks on flatbed truck		
4. Anthracite - Crushed, in suitable heavy-duty cloth, paper or polyethylene bags		
CEI – Carbon Enterprises, Inc.	\$.30/lb.	\$7,800.00
5. Caustic Soda - bulk tank truck		
Alexander Chemical Corporation, A Carus Company	\$466.00/ton	\$151,450.00
Brenntag Great Lakes	\$469.00/dry ton	\$152,425.00
Rowell Chemical Corporation	\$470.00/dry ton	\$152,750.00
Univar USA	\$490.00/ton (Full 48,000/loads) – See Note 9	\$159,250.00
Brenntag Mid-South, Inc.	\$495.00/dry standard ton	\$160,875.00
KA Steel Chemicals	\$495.00/dry ton	\$160,875.00
Vertex Chemical Corporation	\$510.00/dry standard ton – See Note 10	\$165,750.00
Harcros Chemicals	\$536.00/dry ton	\$174,200.00
6. Activated Carbon - bulk truck in loads of 30,000 pounds		
Cabot Norit Americas, Inc.	\$.60/lb. – See Note 1	\$72,000.00
Thatcher Company of Montana, Inc.	\$.73/lb.	\$87,600.00
Standard Carbon d/b/a Standard Purification	\$.829/lb. – See Note 8	\$99,480.00
Calgon Carbon Corporation	\$.85/lb. – See Note 2	\$102,000.00
West Rock MWV LLC, Ingevity Chemical Division	\$.89/lb.	\$106,800.00
7. Activated Carbon - 50 lb. bags palletized and plastic wrapped for fork lift		
Cabot Norit Americas, Inc.	\$1,360.00/ton – See Note 1	\$40,800.00
Standard Carbon d/b/a Standard Purification	\$1,627.00 – See Note 8	\$48,810.00
Calgon Carbon Corporation	\$1,820.00/ton – See Note 2	\$54,600.00
Harcros Chemicals	\$3,000.00/ton	\$90,000.00

SUPPLIER	COST PER UNIT	TOTAL
8. Activated Carbon - bulk truck loads not to exceed 20,000 lbs.		
Cabot Norit Americas, Inc.	\$.64/lb. – See Note 1	\$96,000.00
Thatcher Company of Montana, Inc.	\$.77/lb. (sample sent)	\$115,500.00
Calgon Carbon Corporation	\$.85/lb. – See Note 2	\$127,500.00
Standard Carbon d/b/a Standard Purification	\$.915/lb.	\$137,250.00
WestRock MWV LLC, Ingevity Chemical Division	\$.92/lb.	\$138,000.00
9. Chlorine (Gas) 150 lb. Cylinders		
Viking Chemical Co.	\$.32/lb. or \$48.00/cyl. – No sales to East Moline – See Note 11	\$11,952.00
Hawkins, Inc.	\$.34/lb.	\$12,699.00
Brenntag Mid-South, Inc.	\$.355/lb. – No Sales to East Moline Pool	\$13,259.25
DPC Enterprises L.P.	\$.60/lb. or \$90.00 cyl – No sales to East Moline	\$22,410.00
Airgas North Central	\$2.30/lb. or \$345.00/ea	\$85,905.00
10. Chlorine (Sodium Hypochlorite 15%) – 4,500 gallon loads		
Alexander Chemical Corporation, A Carus Company	\$.81/gallon – Rock Island & Moline only	\$148,230.00
Vertex Chemical Corporation	\$.65/gallon – See Note 10	\$177,450.00
KA Steel Chemicals	\$.659/gallon – See Note 4	\$179,907.00
Rowell Chemical Corporation	\$.71/gallon	\$193,830.00
DPC Enterprises, L.P.	\$.85/gallon	\$232,050.00
Harcros Chemicals	\$.90/gallon	\$245,700.00
Brenntag Great Lakes	\$1.03/gallon	\$281,190.00
Univar USA	\$1.065/gallon – See Note 9	\$290,745.00
11. Chlorine (Liquid) - truck load lots varying from 2 to 6 one-ton cylinders		
Viking Chemical Company	\$360.00 – See Note 11	\$39,240.00
Alexander Chemical Corporation, A Carus Company	\$398.00/ton	\$43,382.00
Brenntag Mid-South, Inc.	\$407.00	\$44,363.00
DPC Enterprises, L.P.	\$520.00/dry ton	\$56,680.00
Airgas North Central	\$1,900.00/ea	\$207,100.00
12. Citric Acid - lots of 5-10, 100 lb. bags		
Brenntag Great Lakes	\$.90/lb.	\$2,340.00
Viking Chemical Company	\$.90/lb. or \$45.00 – 50 lb. bag – See Note 11	\$2,340.00
Harcros Chemicals	\$.99/lb.	\$2,574.00
Hawkins, Inc.	\$1.00/lb. – 50 lb. bag	\$2,600.00
Brenntag Mid-South, Inc.	\$1.10/lb.	\$2,860.00
13. Copper Sulfate - lots of 20-30, 50 lb. bags		
Brenntag Great Lakes	\$1.54/lb.	\$9,240.00
Univar USA	\$1.72/lb. – See Note 9	\$10,320.00
Water Solutions Unlimited	\$1.94/lb.	\$11,640.00
Brenntag Mid-South, Inc.	\$2.18/lb.	\$13,080.00
Harcros Chemicals	\$2.99/lb.	\$17,940.00

SUPPLIER	COST PER UNIT	TOTAL
14. Hydrofluosilicic Acid - bulk tank truck		
Brenntag Mid-South, Inc.	\$3.79 (This is what they bid – pap)	\$2,671.95
Viking Chemical Company	\$.299 – East Moline Only – See Note 11	\$22,425.00
Hawkins, Inc.	\$.30/lb. – East Moline only	\$22,500.00
Mosaic Global Sales, LLC	\$.213/lb. – Rock Island & Moline only – See Note 6	\$34,612.50
Alexander Chemical Corporation, A Carus Corporation	\$.226/lb. – Rock Island & Moline only	\$36,725.00
Rowell Chemical Corporation	\$.2435/lb. – Rock Island & Moline only	\$39,568.75
Univar USA	\$.244/lb. – Rock Island & Moline only – See Note 9	\$39,650.00
Brenntag Great Lakes	\$.221/lb. – Total amount reflects a bid for all participants	\$52,487.50
15. Hydrofluosilicic Acid - 15 gallon buckets		
Water Solutions Unlimited	\$3.64/gallon	\$2,566.20
Hawkins, Inc.	\$.36/lb. = \$3.65/gallon	\$2,573.25
Viking Chemical Company	\$3.88/gallon – See Note 11	\$2,735.40
Brenntag Great Lakes	\$.54/lb.	\$3,906.00
Harcros Chemicals	\$.57/lb. = \$5.85/gallon	\$4,124.25
16. Lime - bulk trucks of 50,000 pound loads		
Mississippi Lime Company	\$.09240/lb. = \$184.80/ton	\$175,560.00
Carmeuse Lime & Stone	\$.122135/lb. = \$244.27/ton	\$232,056.50
Harcros Chemicals	\$.19/lb.	\$361,000.00
17. Liquid Carbon Dioxide – Tank Supply		
Praxair, Inc.	\$.06/lb. – See Note 7	\$22,500.00
Airgas North Central	\$.075/lb.	\$28,125.00
Lhoist North America of Missouri, Inc.	\$236.80/ton – See Note 5	\$224,960.00
18. Liquid Ferric Sulfate 18%+++ - bulk tank truck, 4,500 gallon loads		
Kemira Water Solutions, Inc.	\$.118/lb.	\$33,630.00
Chemtrade Chemicals US, Inc.	\$.138/wet lbs. – See Note 3	\$39,330.00
Harcros Chemicals	\$.19/lb.	\$54,150.00
19. Magnesium Bisulfite - lots of approximately four to eight - 30 gallon plastic drums		
Brenntag Mid-South, Inc.	\$.57	\$1,140.00
20. Potassium Permanganate - lots of ten -110 lb. (50Kg) drums		
Marubeni Specialty Chemicals	\$1.82/lb. delivered	\$6,734.00
Viking Chemical Company	\$1.89 – 55 gallon drum – See Note 11	\$6,993.00
Shannon Chemical Corporation	\$2.77/lb.	\$10,249.00

SUPPLIER	COST PER UNIT	TOTAL
21. Potassium Permanganate – 55lb drum (25Kg pails) with handles		
Carus Corporation	\$1.80/lb.	\$27,540.00
Marubeni Specialty Chemicals	\$1.82/lb. delivered	\$27,846.00
Viking Chemical Company	\$1.89/lb. – See Note 11	\$28,917.00
Water Solutions Unlimited	\$2.52/lb.	\$38,556.00
Shannon Chemical Corporation	\$2.77/lb.	\$42,381.00
Harcros Chemicals	\$3.32/lb.	\$50,796.00
American International Chemical	\$3.97/Kg - \$99.25/pail	\$60,741.00
Univar USA	\$4.14/lb. – See Note 9	\$63,342.00
22. Aqua Mag – 55 gallon drums		
Viking Chemical Company	\$.55/lb. – Aqua King 1700 – See Note 11	\$1,724.25
Carus Corporation	\$.56/lb.	\$1,755.60
Hawkins, Inc.	\$.60/lb.	\$1,881.00
Shannon Chemical Corporation	\$.727/lb.	\$2,279.15
23. Liquid Phosphoric Acid – Bulk tank truck		
Brenntag Great Lakes	\$.495/lb.	\$22,275.00
Carus Corporation	\$.496/lb.	\$23,320.00
Brenntag Mid-South, Inc.	\$.54/lb.	\$24,300.00
Shannon Chemical Corporation	\$.557/lb.	\$25,065.00
Harcros Chemicals	\$.59/lb.	\$26,550.00
24. Liquid Ferric Chloride – Bulk Tank Truck		
Harcros Chemicals	\$.19/lb. x 30,000 lbs. =	\$5,700.00
PVS Technologies, Inc.	\$.118/liquid lb. x 30,000 lbs. = \$3,540.00 Gallon Pricing - \$1.375/gallon =	\$41,250.00
Kemira Water Solutions	\$1.45/gallon	\$43,500.00
25. Liquid Sodium Bisulfite - Totes		
Viking Chemical Company	\$1.51/gallon – See Note 11 (Viking Bid - \$1.51 x 15,000 gallons = \$22,650.00 – pap)	\$1,989.00
Brenntag Great Lakes	\$.155/lb. x 15,000 lbs. =	\$2,325.00
Harcros Chemicals	\$.245/lb. x 15,000 lbs. =	\$3,675.00
Brenntag Mid-South, Inc.	\$2.34/gallon	\$35,100.00

No Bids

1. Continental Carbonic
2. Linwood Mining & Minerals
3. Nalco Company
4. Pencco, Inc.
5. SNF Polydyne, Inc.

NOTES

1. Cabot Norit Activated Carbon – See cover letter and provisions to the specifications.
2. Calgon Carbon Corporation – Bid for Items #6, 7, and 8 are for Calgon Carbon's Type Pulsorb WP 220-90 powdered activated carbon. Samples have been sent under separate cover. Affidavit of Compliance. Specification Sheet and MSDS are attached. Calgon Carbon will be taking exception to the Ash spec of 10 Max.
3. Chemtrade Chemicals US, LLC – Chemtrade Chemicals does not accept credit card payments. Terms – Net 30 days after receipt of order.
4. KA Steel Chemical – Price for Sodium Hypochlorite is based on minimum 4,500 gals per shipment as requested in bid documents delivered to one tank at facility. Price for Sodium Hydroxide is based on minimum 12.06 dry tons equal to 47,000 wet lbs. per shipment to one tank at facility. Payment Terms: Net 30 days. Yes, we accept credit cards as a form of payment for shipments delivered to facility at no additional charge. Lead Time: 1-2 day notice is preferred, but KASC, we are able to make deliveries next day or same day if needed in an emergency as requested.
5. Lhoist North America of Missouri, Inc. – Additional truck fuel surcharge based on rate at time of shipment applies. Material per attached product specification sheet.
6. Mosaic Global Sales, LLC – Above price is based on 23% assay adjusted basis and 40,000/lb. minimum releases.
7. Praxair, Inc. – See exceptions to the bid specifications contained in the bid response letter attached to the bid. See Customer-owned Tank Checklist attached to bid. Checklist must be completed before Praxair fills your tank.
8. Standard Carbon d/b/a Standard Purification – Does not accept credit cards.
9. Univar USA – Univar provided no totals for items specified. See additional notes on bid cover letter.

 #5 Caustic Soda – Full 48,000 loads

 #14 price is based on 23% assay adjusted basis, and 40,000 lb. minimum releases.
 No bid East Moline.
10. Vertex Chemical Corporation – See attached quotation information attached to the bid.
11. Viking Chemical Company – Does not accept credit cards. Next day delivery is standard, usually no longer than 48 hours.