



Public Works – Clean Water Plant

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MEMO

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To: Board of Public Works
From: Greg Markel, Process Control Supervisor
Subject: **Clean Water Plant Chemical Bids for 2023**

Phosphorus removal; ferric chloride with polyaluminum chloride (PAC) as alternate:

The low bid for ferric chloride of \$2,949.00/dry ton delivered as ferric was submitted by Kemira Co for their product PIX-311, we recommend in favor of this bid.

Kemira was the low bid last year at \$1,997.00/dry ton, a \$952/dry ton increase from last year or 32.3%. Kemira delivers from Illinois.

The ferric alternative low bid for ChemTrade Logistics PAC was submitted at \$6,000.00/dry ton delivered of aluminum for their product Hyper+Ion 1997. ChemTrade was alternative low bid last year at \$6,440/dry ton, a \$400.00 decrease from last year or -7.3%. ChemTrade delivers from Michigan.

For comparison, this calculates to an equivalent of \$2.169/gallon for Kemira PIX-311 and \$3.105/gallon for ChemTrade Logistics Hyper+Ion 1997. Our goal is to use the lowest cost chemical per removal efficiency.

Polymer for Sludge Dewatering:

The low bid for polymer was \$2.09/lb delivered by SNF Polydyne for their product Clarifloc CE-1795, we recommend in favor of this bid.

CE-1795 has been used through the 2022 year with good result on the centrifuge. SNF Polydyne was the low bid last year at \$1.97/lb, a \$0.12/lb increase from last year or 5.7% increase. Polydyne delivers from Georgia.

Cc: Alex Damien, Jeff Harenda