



DEPARTMENT OF PUBLIC WORKS

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MEMO

November 8, 2018

To: Board of Public Works
From: Greg Markel, Process Control Supervisor
Subject: **Clean Water Plant Chemical Bids for 2019**

Polymer for Sludge Dewatering:

The low bid for polymer was \$1.92/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 2018 year with good result on the centrifuge. SNF Polydyne was the low bid last year at \$1.386/lb, a \$0.534 increase from last year or 38%. Polydyne delivers from Georgia.

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

The low bid for ferric chloride of \$1,491.00/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 \$1,297.00/dry ton, a \$194/ dry ton increase from last year or 15%. Kemira delivers from Illinois.

The ferric alternative low bid for ChemTrade Logistics PAC was submitted at \$4,166.67/dry ton delivered of aluminum for their product Hyper+Ion 1997. ChemTrade was alternative low bid last year at \$2,341.00/dry ton, an \$1,825.67 increase from last year or 78%. ChemTrade delivers from Michigan.

For comparison, this calculates to an equivalent of \$1.34/gallon for Kemira PIX-311 and \$2.08/gallon for ChemTrade Logistics Hyper+Ion 1997. Our goal is to use the lowest cost chemical per removal efficiency.

*** Larger than normal price increases from chemical companies this year are due to price of raw material and shipping cost increases. Another increase in price is expected next year according to the chemical companies due to tariffs on some raw materials.

Cc: Dr. Fred Abadi, Jeff Harenda, Alex Damien

<input type="checkbox"/> ENGINEERING DIVISION	<input type="checkbox"/> MUNICIPAL PARKING SERVICES	<input type="checkbox"/> STREETS DIVISION	<input checked="" type="checkbox"/> CLEAN WATER PLANT	<input type="checkbox"/> WAUKESHA METRO TRANSIT
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