



## AGENDA MEMORANDUM

Action Item for the City Council Meeting June 14, 2022

**DATE:** June 14, 2022

**TO:** Peter Zaroni, City Manager

**FROM:** Gabriel Ramirez, Interim Director of Water Utilities  
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### Supply Agreement for Sludge Dewatering Polymer

#### **CAPTION**

Motion authorizing a one-year supply agreement, with a one-year option period, with Polydyne Inc. of Riceboro, Georgia, for the purchase of Sludge Dewatering Polymer for the Utilities Department, in an amount not to exceed \$977,670.00, with an estimated potential amount not to exceed \$1,955,340.00 if the option period is exercised, with FY 2022 funding of \$325,890.00 from the Wastewater Fund.

#### **SUMMARY:**

This motion authorizes a one-year supply agreement with Polydyne Inc. for Sludge Dewatering Polymer for the Utilities Department. This chemical is necessary in the dewatering of digested sludge using belt filter presses and centrifuges at the City's wastewater treatment plants as required by Texas Commission on Environmental Quality (TCEQ) compliance regulations.

#### **BACKGROUND AND FINDINGS:**

The City of Corpus Christi operates six Wastewater Treatment Plants (WWTPs) with a combined permitted effluent flow of 43 million gallons per day, resulting in over 5,000 dry tons (40,000 cubic yards) of biosolids per year that must be disposed at the Cefe Venezuela Landfill.

Polymers are commonly used in wastewater treatment to initiate the flocculation of solid waste so that it can be separated from water in a relatively easy manner. To make the process in a

more efficient way, City's wastewater treatment utilizes polymer in the dewatering process to improve the dewatering characteristics of the sludge and reduce its leach potential upon landfill disposal.

This purchase contract is needed to supply sludge dewatering polymer, one of three major chemicals (sodium hypochlorite, sodium bisulfite, and polymer) for wastewater treatment process.

**PROCUREMENT DETAILS:**

Finance-Procurement conducted a competitive Request for Bids process to obtain bids. The city received one responsive, responsible bid and staff is recommending the award to Polydyne Inc. who is the same vendor supplying polymer to the city in 2020. The price is \$1.62 per pound in 2022 with a 23% increase compared with 2020 (\$1.31 per pound).

**ALTERNATIVES:**

An alternative to securing a long-term supply agreement is to purchase the sludge dewatering polymer through short-term supply agreements. This method of transactions may cause delays in the shipment of this chemical. In addition, the cost will depend on the market price at the time of purchase, which may be higher than a locked-in price obtained through a long-term agreement.

**FISCAL IMPACT:**

The fiscal impact to the Wastewater Fund in FY 2022 is \$325,890.00 for this one-year supply agreement, with the remaining cost of \$651,780.00 to be budgeted in future years through the annual budget process. If the option period is exercised, the remaining cost of \$1,629,450.00 will be budgeted in the future years through the annual budget process.

**Funding Detail:**

Fund: 4200 Wastewater  
Organization/Activity: 33100 Broadway Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # (CIP Only): N/A  
Account: 520010 Purification Chemicals  
Cost: \$74,520.00

Fund: 4200 Wastewater  
Organization/Activity: 33110 Oso Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # (CIP Only): N/A  
Account: 520010 Purification Chemicals  
Cost: \$130,410.00

Fund: 4200 Wastewater  
Organization/Activity: 33120 Greenwood Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # (CIP Only): N/A

Account: 520010 Purification Chemicals  
Cost: \$52,650.00

Fund: 4200 Wastewater  
Organization/Activity: 33130 Allison Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # **(CIP Only)**: N/A  
Account: 520010 Purification Chemicals  
Cost: \$49,680.00

Fund: 4200 Wastewater  
Organization/Activity: 33140 Laguna Madre Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # **(CIP Only)**: N/A  
Account: 520010 Purification Chemicals  
Cost: \$9,315.00

Fund: 4200 Wastewater  
Organization/Activity: 33150 Whitecap Wastewater Plant  
Mission Element: 064 Treat Wastewater  
Project # **(CIP Only)**: N/A  
Account: 520010 Purification Chemicals  
Cost: \$9,315.00

**RECOMMENDATION:**

Staff recommends approval of the motion authorizing this supply agreement with Polydyne Inc. as presented.

**LIST OF SUPPORTING DOCUMENTS:**

Bid Tabulation  
Supply Agreement