



AGENDA MEMORANDUM

Action Item for the City Council Meeting of August 13, 2024

DATE: August 13, 2024

TO: Peter Zanoni, City Manager

FROM: Nicholas Winkelmann, P.E, Director of Water Systems and Support Services
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Supply Agreement for Hydrofluorosilicic Acid to Fluoridate Water

CAPTION:

Motion authorizing execution of a one-year supply agreement, with a one-year option, with Pencco, Inc., of San Felipe, Texas, in an amount not to exceed \$251,100.00, with a potential up to \$502,200.00 if the option is exercised, for hydrofluorosilicic acid for fluoride treatment in the water system by Corpus Christi Water, with FY 2024 funding of \$41,833.33 from the Water Fund.

SUMMARY

Water fluoridation is the controlled adjustment of fluoride to a public water supply for dental health. Hydrofluorosilicic acid is the most common additive for water fluoridation in the United States. The Centers for Disease Control and Prevention, World Health Organization, U.S. Public Health Service, American Medical Association, American Dental Association, Corpus Christi-Nueces County Local Health Authority, and local dentists and pediatricians recommend the addition of fluoride to drinking water.

BACKGROUND AND FINDINGS:

Hydrofluorosilicic acid is added in the treatment of potable (drinking) water through a controlled liquid feed system to reduce the incidence of dental cavities and tooth decay. The City of Corpus Christi has been adding fluoride since 1950. Fluoride is naturally present in the City's raw water sources from Lake Corpus Christi, Choke Canyon Reservoir, Lake Texana, and Colorado River.

The naturally occurring fluoride level in the Corpus Christi Water system due to its water sources averages 0.2 mg/l. The targeted concentration for Fluoride in a public drinking water system is 0.7 mg/l.

The Environmental Protection Agency (EPA) has set levels of fluoride in a drinking water system with a maximum contaminant level of 4.0 mg/l and a secondary contaminant level of 1.4 mg/l. Public water systems are required to meet these standards by ensuring fluoride levels are less than these requirements.

PROCUREMENT DETAIL:

Finance & Procurement has conducted a Request for Bid process to obtain competitive submissions from suppliers. The City received three responsive, responsible bids and one non-responsive bid. Staff recommends awarding the contract to Pencco, Inc., as they are the lowest responsive and responsible bidder. Pencco, Inc. has also previously held the contract for hydrofluorosilicic acid. The table below depicts the current contract pricing with Univar Solutions, Inc., as compared to the proposed new contract with Pencco, Inc.

Hydrofluorosilicic Acid			
2023 Pricing Univar Solutions, Inc.	2024 Pricing Pencco, Inc.	Variance	Variance Decrease %
\$600.00 per wet ton	\$558.00 per wet ton	(\$42.00) per wet ton	(7%)

If the option years are exercised, the pricing will remain consistent with the established bid and contractual amount.

ALTERNATIVES:

An alternative to accepting the lowest, responsive, responsible bidder, Pencco, Inc., would be to reject all bids and discontinue the practice of adding hydrofluorosilicic acid to the water supply.

FISCAL IMPACT:

The fiscal impact for the Water Fund in FY 2024 is \$251,100.00.

FUNDING DETAIL:

Fund: 4010 Water
Organization/Activity: 31010 O. N. Stevens Filter Plant
Department: 45 Water
Project # (CIP Only): N/A
Account: 520010 Purification Chemicals

RECOMMENDATION:

Staff recommends that this motion authorizing a one-year supply agreement with a one-year option with Pencco, Inc., as presented, be approved.

LIST OF SUPPORTING DOCUMENTS:

Bid Tabulation
Supply Agreement