



**Purchasing Contract
CITY OF AUSTIN
RECOMMENDATION FOR COUNCIL ACTION**

AGENDA ITEM NO.: 22
AGENDA DATE: Thu 08/12/2004
PAGE: 1 of 2

SUBJECT: Authorize execution of a contract with PROCESS SOLUTIONS, INC., Campbell, CA, for a VAPEX Hydroxyl Ion Fog Odor Control System in an amount not to exceed \$66,480.

AMOUNT & SOURCE OF FUNDING: Fundings included in Fiscal Year 2003-2004 Capital Budget of the Austin Water Utility.

FISCAL NOTE: A fiscal note is attached.

REQUESTING Purchasing
DEPARTMENT: for Austin Water Utility;

DIRECTOR'S
AUTHORIZATION: Vickie Schubert

FOR MORE INFORMATION CONTACT: Steve Aden, Supervising Sr. Buyer/974-2021

PRIOR COUNCIL ACTION: N/A

BOARD AND COMMISSION ACTION: N/A

PURCHASING: Sole Source.

MBE / WBE: This contract will be awarded in compliance with Chapter 2-9 of the City Code (Minority-Owned and Women-Owned Business Enterprise Procurement Program). No subcontracting opportunities were identified; therefore, no goals were established for this solicitation.

The Taylor Slough Lift Station was one of several lift stations subject to the Environmental Protection Agency Administrative Order VI-99-1221. The Taylor Slough project upgraded and renovated the existing lift station to meet current Texas Commission on Environmental Quality regulations and Austin Water Utility standards. The renovation and upgrade was designed to require only minor modifications to the existing concrete structure. The Lift Station was originally construction in 1967, before any of the adjacent property was developed or occupied. In 1998, complaints of odors were received from adjoining property owners on Scenic Drive.

During the design phase of the lift station, three-odor control alternatives were investigated. The first option examined was the injection of air into the wastewater as a form of pretreatment and odor control. Analysis determined that a "HydroFlo" aeration system would not be appropriate due to the possibility that high oxygen levels in the wastewater could air lock the pumps and disable the lift station. Bi-oxide injection, an odor control system utilized at numerous City of Austin lift stations, was also examined. It was determined that Bi-oxide would not be an effective odor control system for this lift station site because Bi-oxide focuses its odor control efforts on the force main and the main's point of discharge. The system provides virtually no odor control at this lift station. The third alternative examined and ultimately incorporated into the station design was a product called Sulfa Treat. This odor control system suspends wire mesh baskets containing an odor reducing media in the lift station wet well. However, this odor control system, although effective in neutralizing the odor from the wastewater, has an odor of its own.

A fourth alternative is the VAPEX odor control unit, which was installed in the two wet well compartments on June 9, 2004 as a pilot study. The VAPEX odor control system uses a patented air



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atomizing, three-fluid nozzle to create a hydroxyl ion fog, which combines ozone, water and air creating a hydroxyl ion fog reducing hydrogen sulfide gas. The by-products of the VAPEX reaction fall back into the water stream as neutral pH water. Since the installation of the VAPEX unit, the odor has been greatly reduced and effectively no odor has been detected from the wet wells.

CIP FISCAL NOTE

DATE OF COUNCIL CONSIDERATION:
WHERE ON AGENDA:
DEPARTMENT:

8/12/2004
Resolution
Austin Water Utility

DESCRIPTION:

Authorize execution of a contract with PROCESS SOLUTIONS, INC., Campbell, CA for a VAPEX Hydroxyl Ion Fog Odor Control System in an amount not to exceed \$66,480.

FINANCIAL INFORMATION:

Parent Project Name:	Wastewater Unfunded Future
Project Authorization:	2003-04 Approved Capital Budget
Funding Source:	Commercial Paper
Number:	4570 237 2017

Current Appropriation	\$ 410,907,293.00
Unencumbered Balance	141,101,251.39 *
Amount of This Action	<u>(66,480.00)</u>
Remaining Balance	<u>\$ 141,034,771.39</u>
Current Available Balance	\$ 155,544,885.59
Less Outstanding Commitments	<u>(14,443,634.20)</u>
Estimated Unencumbered Balance	<u>\$ 141,101,251.39 *</u>

Utility Finance: 
David Anders, Utilities Finance Manager

Date: 7/28/04

REF # 4570 237 8224