

AGENDA



Thursday, December 11, 2008

Contract and Land Management
RECOMMENDATION FOR COUNCIL ACTION

Item No. 17

Subject: Authorize execution of a construction contract with EXCEL CONSTRUCTION SERVICES, LLC. Leander, TX for the South Austin Regional Screw Pump Replacement Project in the amount of \$3,013,250 plus a \$300,000 contingency, for a total contract amount not to exceed \$3,313,250.

Amount and Source of Funding: Funding in the amount of \$3,313,250 is included in the Fiscal Year 2008-2009 Capital Budget of the Austin Water Utility.

Fiscal Note: A fiscal note is attached.

For More Information: L.R. Pohren, P.E. 972-0223; April Thedford 974-7141

Purchasing Language: Lowest of four (4) bids received.

MBE/WBE: This contract will be awarded in compliance with Chapter 2-9A of the City Code (Minority Owned and Women Owned Business Enterprise Procurement Program) through the achievement of Good Faith Efforts with 3.27% MBE and 0.06% WBE subcontractor participation.

Boards and Commission Action: Recommended by Water and Wastewater Commission.

The Return Activated Sludge (RAS) screw pumps are one of the most critical sets of pumps in the South Austin Regional Plant. These pumps return solids from the clarifiers to the aeration basins and are essential to maintain the biological process viability and treat the wastewater to the levels required by the City's permit. Without these pumps the treatment process will fail. After approximately 22 years of continuous operation, the overall condition and reliability of the RAS screw pumps is poor. The screw pumps have already exceeded the lifetime suggested by the manufacturer, which is 15 years. The pump cylinders are badly corroded and there are metal fatigue cracks along the cylinders.

This construction project will replace six (6) - 72 inch diameter return activated sludge screw pumps. Specific project work includes the replacement of all six RAS screw pumps including the enclosed screw cylinders, motors, gearboxes (transmissions), and bearings. New pump base plates will be provided and grouted into place. Wiring in the local control panel to the motor control center will be replaced. Modifications to the wall cutout where the top of the pumps enter the building will be made so that worker access to the equipment is safer. The old screw pumps will be sanitized and removed from the site. Prior to acceptance, the pumps will be performance tested and plant personnel will receive training on the operation and maintenance of the pumps, and O&M manuals will be provided.

Due to potential interference with existing utilities at the plant, extremely tight working space constraints, and other potential unknowns, a 10% contingency is included in the total cost to allow for expeditious processing of any change orders. The construction duration to final completion is 430 calendar days. The engineer's estimate was \$3,769,000.