

AGENDA



Thursday, December 17, 2009

**Contract and Land Management
RECOMMENDATION FOR COUNCIL ACTION****Item No. 35**

Subject: Authorize negotiation and execution of a professional services agreement with CAMP DRESSER & MCKEE (CDM), INC., Austin, TX, to provide engineering services for the Hornsby Bend Biosolids Management Plant Master Plan in an amount not to exceed \$1,500,000.

Amount and Source of Funding: Funding is available in the Fiscal Year 2009-2010 Capital Budget of the Austin Water Utility.

Fiscal Note: A fiscal note is attached.

For More Information: James King 972-0185; Debra Dibble 972-7027; April Thedford 974-7141

Purchasing Language: Best qualification statement of five (5) statements received.

MBE/WBE: This contract will be awarded in compliance with Chapter 2-9B of the City Code (Minority Owned and Women Owned Business Enterprise Procurement Program) by meeting the goals with 16.0% MBE and 15.8% WBE subcontractor participation.

Boards and Commission Action: Reviewed by the Water and Wastewater Commission.

The Hornsby Bend Biosolids Management Plant (HBBMP) receives all primary and secondary solids generated at the City's two main wastewater treatment plants, Walnut Creek and South Austin Regional. Products produced at HBBMP include solids, liquids and gas, each offering the potential for beneficial reuse. The current sequence of treatment at HBBMP for incoming solids consists of screening, gravity belt thickening, anaerobic digestion and belt press dewatering. Following stabilization, the resulting biosolids are either land applied on Hornsby Bend property, land applied offsite by a contractor or composted to produce Dillo Dirt. Liquid sidestreams generated from the biosolids treatment process are routed to an on-site treatment plant and the treated sidestream flows are ultimately discharged into Pond 1 East of a four pond system. Water from the pond system is used for irrigation on the Hornsby Bend property. Most of the gas produced in the digestion process is flared while some is used as either fuel in boilers used to heat the digester contents or to fuel two on-site 400 KW electrical generators. Most of HBBMP's main infrastructure is aging having been constructed between 1985 and 1989, with various improvements and modifications occurring over the years.

The selected team will conduct a complete and comprehensive assessment of all plant processes, facilities and condition of assets; and make recommendations for optimizing existing or changing treatment processes to ensure HBBMP continues to treat and dispose of the biosolids, liquids and gas in a reliable, efficient, environmentally-conscious and sustainable manner. Process recommendations will focus on optimizing the beneficial reuse of products, such as maximizing biogas development and use, while diversifying disposal options. Primary considerations for process enhancements and changes will include optimizing energy efficiencies, climate protection considerations, and current and projected future requirements for regulatory compliance.

The selected team will evaluate potential opportunities for HBBMP to contribute to the City's "zero waste" initiative. Such opportunities may include expanding receipt of waste products from public and private

entities, such as the Solid Waste Services Department, to divert landfill and other waste for beneficial reuse at HBBMP.

The selected team will provide public relations support to visit with neighbors and stakeholders to better understand community concerns and needs, and develop a facility Master Plan that positively addresses community issues. Primary considerations will be for the selected team to evaluate and recommend mitigating measures for existing sources of onsite-generated odors, and ensure process changes minimize the potential for odors. It will also consider opportunities to enhance HBBMP as a premier bird watching location.

The consultant will deliver an Assets Conditions Assessment Report; Technical Memorandum for each major area of plant operations; and HBBMP Master Plan Document that is flexible and implementable over the long term.

This authorization provides for funding of services related to master plan development services. All ongoing and planned construction at Hornsby Bend funded through federal stimulus money is critical enhancements and rehabilitations of existing equipment that are required in addition to these Master Plan services. These Master Plan services will consider and integrate this planned construction work into the Master Plan recommendations.

This request allows for the development of a professional service agreement with the recommended firm. Should the City be unsuccessful in negotiating a satisfactory agreement with the recommended firm, negotiations will cease with that firm. Staff will then return to Council and request authorization to begin negotiations with the alternate recommendation listed below.

Recommended Firm: Camp Dresser & McKee (CDM), Inc.
Alternate Firm: Carollo Engineers, P.C.