

**CITY COUNCIL  
COMMUNICATION:**

**03-188**

**AGENDA:**

APRIL 21, 2003

**SUBJECT:**

PROFESSIONAL  
SERVICE  
AGREEMENT WRA  
SECONDARY  
TREATMENT  
AERATION SYSTEM  
IMPROVEMENTS

**TYPE:**

**RESOLUTION**  
ORDINANCE  
RECEIVE/FILE

**SUBMITTED BY:**

JEB E. BREWER, P.E.  
CITY ENGINEER

WILLIAM G. STOWE  
PUBLIC WORKS  
DIRECTOR

**ITEM 7B**

**OFFICE OF THE CITY MANAGER  
CITY OF DES MOINES, IOWA**

**SYNOPSIS —**

A Professional Services Agreement has been negotiated with the professional engineering firm of Brown and Caldwell, Environmental Engineers & Consultants (Craig A. Goehring, CEO, 55 East Fifth Street, Suite 1500, Saint Paul, Minnesota, 55101), to provide Preliminary Design Phase Services for the WRA Secondary Treatment Aeration System Improvements project, Activity ID 01-2003-015. Staff requests approval of the preliminary design phase services for a lump sum agreement not to exceed \$81,280.

**FISCAL IMPACT —**

Funding for this project is provided for on page WRA14 of the 2002-03 CIP. WRF – Aeration Blowers, Account 543020, Fund: EN267, Org: ENG990000, Project: WRA 072, Activity ID 01-2003-015.

**RECOMMENDATION —**

**Approval of the proposed Engineering Agreement with Brown and Caldwell Environmental Engineers & Consultants.**

**BACKGROUND —**

The 2002/03 CIP for the Wastewater Reclamation Authority included the WRF Secondary Aeration System Improvements. The preliminary design of the secondary aeration improvements will include evaluation of several alternatives that are available to reduce operating costs at the Wastewater Reclamation Facility. These alternatives include installation of a smaller electrically driven blower or installation of a methane powered engine driven blower.

Request for Proposals for the WRF Secondary Aeration System Improvements were sent to ten engineering firms and posted on the City of Des Moines web page. Responses were received from five engineering firms. A consultant review committee met and selected the proposal submitted by Brown & Caldwell because of the firm's relevant experience and understanding of the project.

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Additional costs for future phases of the project are estimated to be:

Design Phase Services	\$120,000.00
Construction Phase Services	\$90,000.00
Construction	\$1,200,000.00

These costs are based on replacing the existing aeration blowers with a smaller electric blower. If the preliminary design indicates that a methane driven blower is recommended, the costs may be greater because a gas line will need to be installed. The preliminary design will determine the most cost effective option on a life cycle basis.

An agreement has been negotiated with Brown and Caldwell, Environmental Engineers & Consultants that includes the preliminary design of the facility.

Design and construction phase service agreements will be presented at a later date after project identification from preliminary design is completed. Staff requests approval of the preliminary design phase services agreement in an amount not to exceed \$81,280.

