

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: March 9, 2011

Board Item: V-E-9

**AGREEMENT WITH BROWN AND CALDWELL  
FOR THE DESIGN OF HIGHLANDS  
TREATED WATER BASIN 1 AND 2 REPLACEMENT  
AGREEMENT 13530A**

Action by Consent

Action

Information

On February 28, 2011, proposals were received for the design of the Highlands Treated Water Basin 1 and 2 Replacement Project. The project consists of the demolition of the two existing 3 million gallon treated water storage reservoirs and the construction of a single 8 million gallon circular post-tensioned concrete tank. The existing basins have experienced repeated leaks and in addition, the existing 5-inch thick concrete roof is under-designed and experiences excessive deflection leading to additional cracking. These storage basins are approximately 50 years old. Existing cracks not only facilitate basin leakage, but also allows potential infiltration that could lead to contamination of the water supply.

The consulting services shall include civil, geotechnical, structural, architectural, environmental, permitting, and public relations efforts. The Consultant shall also review and assist with Contractor bid evaluations. It is anticipated that construction phase services will be amended to this Consultant Contract at a later date.

Two proposals were received. Based on the firm's proposed team, understanding of the project, and price, Brown and Caldwell was selected for this project. The design is estimated to take 14 months to complete.

This project was not originally slated for design in 2011, however, in an effort to create certainty in our Capital Improvement Plan, it is proposed that expenditures in 2011 for this project be covered by MPC 1DB0063 (Ashland Treated Water Reservoir). This approach to proceed with the Highlands design in parallel to the Ashland Tank Replacement was discussed with the Board on February 9, 2011.

**RECOMMENDATION**

It is recommended that the Board approve entering into Agreement 13530A with Brown and Caldwell in the amount of \$866,798.00 for the design of Highlands Treated Water Basin 1 and 2 Replacement.

**Budget Considerations**

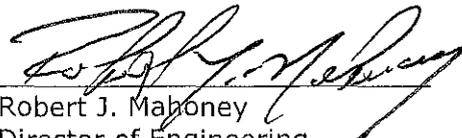
Master Plan Code(s): 2DB0308

Budgeted Item •  Unbudgeted Item • Funds transferred from another project: 1DB0063

**Budget Information**

2011/2012 Budget	\$0.00
Transfer In	\$900,000.00
Revised 2011/2012 Budget	\$900,000.00
Amount Requested This Item	\$866,798.00
YTD Expenditures	\$0.00
Additional Expenditures Anticipated	\$33,202.00
Revised 2011/2012 Estimate	\$900,000.00
2011 Variance Required	\$0.00

Approvals:

  
Robert J. Mahoney  
Director of Engineering

  
James S. Lochhead  
CEO/Manager