

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: December 11, 2013

Board Item: V-E-1

**Contract with Brown and Caldwell for
Aquifer Storage and Recovery Pilot Project - Phase 1
Contract No. 15197A**

Action by Consent

Action

Information

Denver Water’s Integrated Resource Planning process identified large gaps between supply and demand in some long term future scenarios. To bridge these gaps, Denver Water will need a variety of innovative options at its disposal. Creating new water supply by injecting, storing, and recovering treated water (aquifer storage and recovery, or “ASR”) into and from the Denver Basin aquifers under the City and County of Denver is one such innovative technique Denver Water could pursue if technically feasible and cost effective. Several Front Range water providers have showed this technique to be promising. The purpose of this project is to develop and operate a pilot water well facility in the Denver Basin aquifers to investigate the feasibility of this technique for Denver Water. One key issue will be whether this technique can be applied in the aquifers under Denver. If proven feasible and cost effective, additional ASR well sites could be developed in the future to increase the water supply yield of Denver Water’s system.

This contract with Brown and Caldwell covers Phase 1 of the ASR Pilot Project. Phase 1 is the planning phase and the objectives include identifying appropriate candidate sites for the pilot facility; designing water quality tests; defining treatment, operation, and maintenance requirements; identifying permitting and regulatory requirements; identifying risks to the recovery of stored water; estimating the capital and operations cost of the pilot facility; and developing a scope of work for Phase 2.

Several consulting firms were interviewed by a team of employees from Planning, O&M, and Legal to identify the most qualified firms for this work. As a result, five firms were invited to submit proposals. Four proposals were submitted and Brown and Caldwell’s exhibited the most objective approach to our scope of work to answer the question: “Will ASR work for Denver Water?”

Recommendation:

It is recommended the Board approve Contract No. 15197A for consulting services with Brown and Caldwell, Inc. in the amount of \$177,120.00.

Respectfully submitted,

Approvals:



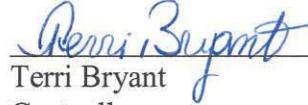
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