

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: November 14, 2012

Board Item: V-A-10

**Agreement With The Denver Museum of Nature & Science and
The Department of Parks and Recreation For The City and County of Denver
For The Denver Museum of Nature & Science
Ground Source Heat Pump Project
Contract 14637A**

Action by Consent Action Information

The Denver Museum of Nature & Science (DMNS) is constructing a ground source heat pump (GSHP) system for heating and cooling its new Education and Collection Facility (ECF) addition. The goal is to design and install a closed-loop GSHP system that utilizes water circulating within the Denver Water (DW) recycled (non-potable) water system as the heat sink/source.

DMNS will construct, at its cost, a service line, which will connect to DW's Conduit No. 304 within the City Park Golf Course that supplies the recycled water to the ECF. The supply service line flows through a double plate heat exchanger located within the ECF, then loops through the return service line to Conduit No. 304 downstream of the original supply line tap.

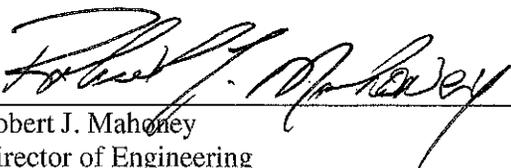
An 8-inch water meter will be placed on the supply side of the DMNS service line. A water quality sampling station will be placed on the return side of the DMNS service line upstream of the Conduit No. 304 connection.

Recommendation

It is recommended that the Board execute the Agreement to memorialize the commitment of Denver Water, the Denver Museum of Nature & Science, and Denver Parks and Recreation to install a service line to be used in a non-consumptive manner, as the heat sink/source for the Ground Source Heat Project.

Approvals:

Respectfully submitted,



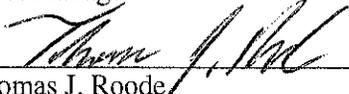
Robert J. Mahoney
Director of Engineering



James S. Lochhead
CEO/Manager



Patti Wells
General Counsel



Thomas J. Roode
Director of Operation and Maintenance