

DENVER BOARD OF WATER COMMISSIONERS

Board Item: V-A-20

Meeting Date: October 13, 2010

**FIRST AMENDMENT TO CONTRACT WITH  
PIONEER SAND AND GRAVEL TO SUPPLY NATURAL CLAY  
FOR RALSTON RESIDUALS HANDLING FACILITY  
CONTRACT 12777A**

Action by Consent

Action

Information

This Board Item requests approval of an amendment to supply additional natural clay for the Ralston Residuals Management Facility. The clay is used as an impermeable compacted clay liner at the bottom of the impoundment so that water cannot leak through the impoundment. Due to variations in the estimating of the quantity of clay needed to construct the clay liner, additional clay is needed to finish constructing the clay liner in Impoundment No. 4. The clay liner in Impoundment No. 1 is complete. The difficulty in calculation of the volume of clay needed is due to the fact that we can calculate the neat line compacted volume of clay, but the actual volume of loose clay shipped must account for bulking of the material. This bulking factor is difficult to determine based on numerous variables involved. Also, the as-constructed liner might be slightly thicker than the design thickness, thus causing an underestimation of the volume of clay needed. All of these factors compound on each other to figure into the need for additional clay.

The original contract end date of October 30, 2010 needs to be extended to take advantage of the favorable construction weather conditions.

Pioneer Sand and Gravel has agreed to honor their unit price which was competitively bid in April 2010.

The 2010 Capital Improvement Plan (MPC 1CE0968) includes sufficient funds for this additional material.

**RECOMMENDATION**

It is recommended that the Board approve the First Amendment to Contract 12777A to Pioneer Sand and Gravel for the additional natural clay for the Ralston Residuals Handling Facility in the amount of \$100,000.00 bringing the total agreement amount to \$200,000.00. An extension to the October 30, 2010 contract completion date is requested in this amendment. The contract end date will be extended to December 15, 2010.

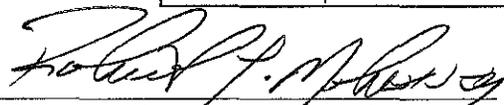
**Budget Considerations**

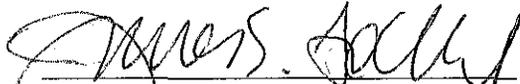
Master Plan Code(s): 1CE0968

- Budgeted Item  Unbudgeted Item  Funds transferred from another project:

**Budget Information**

2010 Budget	\$1,157,846.00
Amount Requested This Item	\$100,000.00
YTD Expenditures	\$418,413.00
Additional Expenditures Anticipated	\$639,433.00
Revised 2010/2011 Budget	\$1,157,846.00
Variance Required	\$0.00

Approvals:   
Robert J. Mahoney, Director of Engineering

  
James S. Lochhead, CEO/Manager

  
Patty Wells, General Counsel