

Mem #6

**City of Carson City
Agenda Report**

Date Submitted: July 9, 2007

Agenda Date Requested: July 19, 2007
Time Requested: 10 Minutes

To: Mayor and Supervisors

From: Public Works Department - Operations

Subject Title: Action to approve and authorize the Mayor to sign a contract in the amount of and not to exceed \$394,932.00 and a contingency amount of \$59,239.80, with Black and Veatch for Evaluation and Mitigation of Water Quality and Distribution Issues for the Carson City Water System.

Staff Summary: This contract will provide for a full evaluation of our water system needs which will produce plans and technical documents to address the mitigation of water quality and distribution issues related to our water system.

Type of Action Requested: (check one)
 Resolution Ordinance
 Formal Action/Motion other (No action required))

Does This Action Require A Business Impact Statement: Yes (XX) No

Recommended Board Action: I move to approve and authorize the Mayor to sign a contract in the amount of and not to exceed \$394,932.00 and a contingency amount of \$59,239.80, with Black and Veatch for Evaluation and Mitigation of Water Quality and Distribution Issues for the Carson City Water System.

Explanation for Recommended Board Action: Black and Veatch was chosen through the Public Works Departments Request for Qualifications process. They have the expertise and the required resources to undertake and resolve Carson City's numerous water quality and distribution issues in the limited time frame necessary.

Carson City must achieve full compliance with the Arsenic regulations by January 1, 2009. This process is underway with the design and construction of a treatment plant for the combined flows of Wells 4 and 49, however there are approximately five additional wells that need to be considered.

Uranium regulations must be met now. Currently, staff is working to meet peak demands while limiting the use of certain wells impacted by the new Uranium limits imposed by the Federal EPA. In order to comply with these regulations, a number of wells, predominantly in the northwest area of Carson City, will require treatment and appropriate blending. These wells may be combined at a centralized facility. This contract will allow for an investigation of the potential sources contributing to this problem and the methods to mitigate the issue.

The water system must be thoroughly reviewed to determine distribution and pressure issues. Currently, there are sections of the system that are not operating at optimum efficiency. A complete understanding of each pressure zone and the inter-relationship of pressure zones is necessary to maximize our system and balance the supply and demand during peak season usage. This will also enable staff to ensure proper blending of sources to achieve quality compliance, where blending is appropriate. This study and resulting report will also provide a benefit is defining strategies associated with energy savings during pumping operations.