

**Metropolitan Domestic Water Improvement District  
Board of Directors Meeting**

**April 8, 2013**

**Contract Award for  
Professional Engineering Services  
Corridor Study for CAP Recharge Recovery System**

**Synopsis**

The Board of Directors is requested to award the Professional Engineering Services contract for the Corridor Study for CAP Recharge Recovery System to HDR Engineering, Inc. in the amount of \$149,992.

**Background**

Metro Water District's CAP Water Utilization Program entails recovering CAP water that has been recharged at the Avra Valley Recharge Project and moving it through a pipeline to the District's Metro-Main distribution system. This effort involves various components including the recovery wells near the Avra Valley Recharge Project, a pipeline to move the water that will need to cross the Santa Cruz River, I-10, and the Railroad, a pumping station that includes land for a possible future treatment facility, and then the last stretch of pipeline to connect with the Herb Johnson Reservoir and the Metro-Main distribution system, including a water blending assessment.

Over the years, the District has worked on different components of what is now the CAP Utilization Program. The District acquired the Avra Valley Recharge Project in 2010. With this acquisition, the District focused on a recharge and recovery approach for utilizing its CAP water allocation. The District participated with the Northwest Providers to have a route analysis done that was completed the end of 2009. However, under this study, the pipeline route would be added to and modified since the Avra Valley Recharge Project site would be the starting point instead of the I-10/Tangerine Road area noted in the previous route study. The District is also exploring the possibility of using existing wells near the Avra Valley Recharge Project that would serve as recovery wells.

The District has identified several necessary components of the CAP Utilization Program to have a complete representation of the estimated costs. Staff has been looking to select a consultant to complete the route analysis from the recovery area to the pipeline alignment identified in the earlier study, recommend potential sites for a pump station, storage, and possible future treatment facilities and provide for a complete cost analysis for the CAP Utilization Program.

After discussing in January 2012 with the Board about the District's water resources situation, the District issued a request for proposals for the CAP Recharge/Recovery System, which included a pipeline route study and a cost analysis of the CAP Utilization Program. Six proposals were

received but a recommendation for selecting a consultant was not brought before the Board for selection since the budget did not include funding for Capital Projects that were not already underway. During the budget discussions, it was noted that a primary unfunded capital improvement project is the CAP Utilization Program due to its importance for the District's future. Specifically, \$150,000 was identified to complete this study.

At the January 14, 2013 meeting, the Board of Directors discussed how the District could continue advancing the CAP Utilization Program within the context of its financial status. With the recent refinancing and restructuring of the District's debt retirement and securing the \$400,000 loan from the Water Infrastructure Financing Authority (WIFA), the District is in a more stable financial situation that allows for funding the route study and cost analysis for the CAP Utilization Program.

### **Issues**

At the February 11, 2013 Board of Directors meeting, the Board approved staff's recommendation to proceed with developing an acceptable contract with the top ranked firm, HDR Engineering, Inc. (HDR). Staff negotiated a contract, scope of services and fee schedule with HDR to include the evaluation of alternative pipeline routes, alternative locations for a future treatment plant, and an initial analysis of the existing wells proposed for recharge recovery and blending, together with cost estimates for the construction or completion of the proposed alternatives.

Funding for this contract exists in the Fiscal Year 2012-2013 budget; however the completion of the work will not occur until Fiscal Year 2013-2014. Therefore it will be necessary to fund the unused Fiscal Year 2013-2014 funds for this contract in the Fiscal Year 2013-2014 budget.

### **Staff Recommendation**

It is recommended that the Board of Directors award the Professional Engineering Services contract for the Corridor Study for CAP Recharge Recovery System to HDR Engineering, Inc., for a not-to-exceed amount of \$149,992.

### **Suggested Motion**

I move that the Board of Directors award the Professional Engineering Services contract for the Corridor Study for CAP Recharge Recovery System to HDR Engineering, Inc., for a not-to-exceed amount of \$149,992.

Respectfully submitted,

I concur with staff's recommendation.

Respectfully submitted,

Charlie A. Maish, P.E., R.L.S.  
District Engineer

Mark R. Stratton, P.E.  
General Manager