

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

June 10, 2019

**Approval of Revised Scope for Program Support Services by HDR Engineering, Inc.,
for Shared Portions of the Northwest Recharge, Recovery and Delivery System**

Synopsis

The Board of Directors is requested to authorize the General Manager to negotiate a revised scope and fee for program support services by HDR Engineering, Inc., (HDR) for design and construction of shared portions of the Northwest Recharge, Recovery and Delivery System (NWRRDS).

Background

As outlined in Memorandum of Understanding (MOA) No. 18001-00, the NWRRDS Committee determined program support services for the final planning, design, and construction of NWRRDS is in the best interest of the project. Program support for NWRRDS was anticipated to include services such as, but not limited to, evaluation and recommendations for the final alignment, evaluation and recommendations for supervisory control and data acquisition (SCADA), refinement of anticipated design and construction costs, mapping of existing easements and identification of remaining needs, preliminary design, evaluation and recommendations for material specifications and design criteria, evaluation and coordination of permitting and/or agreements with outside private and government agencies, review and refinement of project timeline and cash flow, identification of appropriate design phases, preparation of scoping documents and solicitation for design consultants, and owner representation during the construction phase. Following solicitation for consultants, HDR was selected and a scope of services was negotiated as authorized by the Board and MOA 18002-01.

Issues

Following several months of experience with NWRRDS program management and design, the District and HDR conducted an evaluation of tasks to identify areas of overlapping efforts to improve efficiency and reduce program costs. As a result, it was determined it would be more efficient to have the hydrogeological portions of the NWRRDS project Packages 1 (Exploratory Drilling) and 2 (Recovery Well Drilling) managed directly by District staff and their on-call hydrogeological consultant, Clear Creek Associates (Clear Creek). Similarly, it was determined it would be more efficient to have portions of the NWRRDS project related to Packages 3, 4 and 5 (transmission mains and Forebay), and Package 6 (collector pipelines and well equipping) managed directly by District staff.

An additional effort was completed to repackage Packages 3, 4 and 5 of the project to achieve economies of scale. The transmission mains from Packages 3, 4 and 5 would be consolidated into Package 3 to allow for a single final design solicitation and a single, larger construction project compared to the three smaller projects as contemplated in the original packages. Consolidation of the transmission mains into a single project reduces the complexity of oversight and coordination of multiple design and construction contracts and should result in a savings related to a reduction in contractor mobilization costs. The Forebay would remain in Package 5.

As a result of the rescoping effort, other items that would be more efficient to have HDR complete were identified. Due to the effort HDR and the District, the Town of Marana, and the Town of Oro Valley (Partners) have expended to date to develop an overview of supervisory control and data acquisition (SCADA), it was determined to be more efficient to have HDR complete the final design for that item. For simplicity, Package 4 would be replaced by the final design for SCADA.

The scope of services for HDR's subconsultants, Clear Creek, Ninyo & Moore, and Gordley Design Group were evaluated based on needed involvement and contracting efficiencies. Efforts completed by Clear Creek through bidding for the drilling of exploratory wells and preparation of the recovery well permits for later submission to the Arizona Department of Water Resources will be completed as a subconsultant to HDR. Subsequent tasks by Clear Creek will be completed using the District's as-needed contract as reflected in MOA 19006, which will be considered as a separate item by the Board of Directors at its June 10, 2019 meeting. An increase in efforts completed by Ninyo & Moore are reflected in the revised scope. Work by Ninyo & Moore is complete. Because the Partners have internal mechanisms in place for outreach and coordination with the public, the scope for Gordley Design Group was eliminated.

As authorized by MOA 18002-02, the revised cost of program support by HDR is estimated at \$3,364,157, which is a reduction of \$705,843 from the original scope. The cost of Packages 1, 2 and 6, along with the associated subconsultant work, will be divided equally between the District and the Town of Oro Valley as those packages only pertain to the well improvements. The cost of Packages 3, 4 and 5 will be divided between the District, the Town of Marana, and the Town of Oro Valley based on proportional capacity as those packages pertain to the non-well improvements.

Recommendation

It is recommended the Board of Directors authorize the General Manager to negotiate and enter into a revised contract for program support services with HDR Engineering, Inc., for design and construction of the shared portions of NWRDSD.

Suggested Motion

I move to authorize the General Manager to negotiate and enter into a revised contract for program support services with HDR Engineering, Inc., for design and construction of the shared portions of the Northwest Recharge, Recovery and Delivery System.

Respectfully submitted,

Sheila M. Bowen, P.E.
District Engineer

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.
General Manager