

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

**March 14, 2016**

**Award of the Oracle Jaynes Station Exploration Drilling and Testing  
And Rasmussen Well Conversion**

**Synopsis**

The Board of Directors is requested to award Oracle Jaynes Station Exploration Drilling and Testing and Rasmussen Well Conversion to Yellow Jacket Drilling Services in the amount of up to \$158,873.00.

**Background**

*Oracle Jaynes Station*

The existing Oracle Jaynes Station Well is at the end of its useful life. The well is 45 years old, and production capacity has been reduced by 70 percent since 1993. On January 12, 2015, the Board of Directors approved the purchase of an adjacent parcel for a replacement well. The new deed for the property was recorded on December 18, 2015.

The usual process of drilling and installing a municipal supply well includes a preliminary well design used during contractor selection. Then, while drilling is ongoing, geologic information is collected, the well design is finalized, and casing, screen, and filter materials are ordered with hopes of delivery before drilling is completed. The ongoing regional drought and increased demand for well-construction materials has resulted in extended delays that are too long to economically keep a drilling contractor on site waiting for delivery (standby time). Staff recommended an alternative approach that includes drilling an exploration test well to gather design data for the replacement well. The replacement well will have a fixed design that will allow the drilling contractor to pre-order materials before constructing the well, saving the District extended standby time costs.

In addition to geologic sampling of the aquifer materials, the Oracle Jaynes Exploration Project includes completing the borehole as a monitor well, aquifer production testing, and water quality testing. The Board of Directors adopted funding in this fiscal year's budget in the amount of \$273,000 that includes both drilling contractor and consultant costs.

*Rasmussen Well*

In November 2001, a contractor damaged the Rasmussen production well by collapsing a pump

column pipe that was stuck within the well thus rendering the well unusable. The Rasmussen Well is located within the Western CDO Wash Wellfield, a wellfield that accounts for approximately 20 percent of the District's withdrawals and does not have a non-pumped well used for monitoring aquifer levels. Staff have recommended that the Rasmussen Well would be a good location for continuous groundwater level monitoring if the well could be rehabilitated for that purpose. Funds are available for this portion of the project in this fiscal year's well abandonment/well head protection budget (\$15,000).

### City of Tucson Purchasing Agreement

The District has a Cooperative Purchasing Agreement with the City of Tucson's Department of Procurement. Thus, the District, as a "cooperator," is eligible to participate in the City's Job Order Contract (JOC) for Well Drilling. As stated in the District's Procurement Policy, using the City's rigorous bidding and contractor selection allows the District to reduce its overall procurement costs by not having to do a separate bid process.

There are two contractors on the City's JOC for Well Drilling. The District's Miscellaneous Water Resources Consultant, Clear Creek Associates, prepared specifications for this project as instructions for the contractors. On February 9, 2016, District staff and Clear Creek Associates met with the two contractors who are on the JOC, explained the project, visited the two job sites, and requested quotes by February 18, 2016.

### Issues

Quotes for the JOC were received at the District office on February 18, 2016. The quote totals from the two contractors are as follows:

Layne Christensen Company	\$184,103.50
Yellow Jacket Drilling Services LLC	\$137,623.00

The low bidder is Yellow Jacket Drilling Services. The District is aware of other work Yellow Jacket Drilling Services has performed in the Tucson Region and the company is in good standing.

For this project, the contractor's work time will be limited to daylight hours only. Before drilling commences, staff will send a letter to District customers and neighbors notifying them of the project. Staff do not believe temporary noise mitigation walls (or "sound panels") will be necessary because of the daylight working hours. Nevertheless, to be prepared for the possibility that sound panels may be required, the contractors' quotes included a per-linear-foot cost for the 16-foot tall panels. For contingency purposes, staff estimates 250 linear feet of sound panels would be sufficient. At Yellow Jacket's quote, the cost of 250 linear feet would be \$21,250. Temporary sound panels will not be installed by Yellow Jacket without prior staff approval. Staff is requesting the Board of Directors to include this contingency in their approval. The addition of \$21,250 to Yellow Jacket's quote would make the total award up to \$158,873.

**Budget**

<b>Budget</b>		<b>Projected Expenses</b>	
Drilling and Consultant	\$273,000	Clear Creek Assoc.	\$58,393
Wellhead Protection	\$15,000	Yellow Jacket	\$158,873
		Water Quality Testing	\$1,500
		Soils Testing	\$2,500
Subtotals	\$288,000.00		\$221,266.00
<b>Projected Balance Remaining = \$66,734</b>			

**Recommendation**

It is recommended that the Board of Directors award the Oracle Jaynes Station Exploration Drilling and Testing and Rasmussen Well Conversion to Yellow Jacket Drilling Services in the amount of up to \$158,873.00.

**Suggested Motion**

I move to award the construction contract for the Oracle Jaynes Station Exploration Drilling and Testing and Rasmussen Well Conversion to Yellow Jacket Drilling Services in the amount of up to \$158,873.00.

Respectfully submitted,

Michael W. Block  
Water Resources Manager

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.  
General Manager