



City Council Report

Date: January 8, 2018
To: City Council
Through: Kari Kent, Assistant City Manager
From: Beth Huning, City Engineer
Rob Kidder, Assistant City Engineer
Subject: Desert Wells Zone - Exploratory Boring
City Project No. C04048
District 6

Purpose and Recommendation

The purpose of this report is to provide information to the Council concerning the results of the bids received for Desert Wells Zone - Exploratory Boring (See Exhibit "A" for the project location).

Staff recommends that Council award a contract for this project to the lowest responsible bidder, Yellow Jacket Drilling Services LLC, in the amount of \$197,505.00, and authorize a change order allowance in the amount of \$19,750.50 (10%).

Background

Four (4) to six (6) wells are needed in the Eastmark area (previously the Mesa Proving Grounds) to meet water demand. The development agreement with DMB, the master developer at Eastmark, allows the City to purchase up to 6 sites for municipal wells. This project is to identify appropriate well sites through exploratory boring.

In 2016, an exploratory boring was drilled south of Ray Road and the production at this site was determined to be too low to be a viable well site. Clear Creek and Associates, the hydrogeology firm that performed the analysis of the exploratory boring, recommended looking at sites closer to the well sites along Elliot Road. Through discussions with DMB, a new site has been selected for exploratory boring.

Discussion

This project will drill an exploratory boring to determine water production and quality for a potential future well site. The exploratory boring will be 1260 feet deep. Water quality samples will be collected and analyzed. Clear Creek and Associates will issue a report with recommendations. If the exploratory boring is successful, then the City will move

forward with purchasing the property and evaluate future sites nearby. If the boring is unsuccessful, the City will restore the site back to its original condition and elect not to purchase the property.

Once underway, construction of this project is anticipated to last no more than 5 months.

Alternatives

An alternative to this project would be to not perform the exploratory boring. This is not recommended because 4 to 6 wells are required in the Eastmark area to meet water demands based on the Water Master Plan. The drilling of this exploratory boring will give water characteristics and allow the City to determine if the location is good for a well site. Without this information, the City will not know the well potential and could end up with a poor well site.

Fiscal Impact

The total authorized amount recommended for this project is \$217,255.50, based upon the lowest responsible bid \$197,505.00, plus an additional \$19,750.50 (10%) as a change order allowance. This change order allowance will only be utilized for approved change orders.

This project is funded by 2014 authorized Water bonds.

Coordinated With

The Water Resources Department concurs with this recommendation.

CITY OF MESA
MESA, ARIZONA

Desert Wells Zone - Exploratory Boring

PROJECT NO. C04048

Tabulation of Bids Received, Thursday, November 30, 2017, at 1:00 pm.

ENGINEER'S ESTIMATE	\$227,220.00
1. Yellow Jacket Drilling Services, Inc.	\$197,505.00
2. Arizona Beeman Drilling	\$211,095.00
3. Stewart Brothers Drilling Company	\$305,350.00