



STAFF REPORT  
UTILITIES COMMISSION

Agenda Date: 11/7/2024  
Agenda Section: Information Only

Department Origination: Public Works

Agenda Item: 2024 Well Rehabilitation Project Update

Approval Required: No Action Required

**BACKGROUND**

The City of Baxter contracted with Their Well Company (Their) to complete rehabilitation of Well Nos. 1R, 2R, 3R, and 4R because the 2024 annual inspection report indicated that all the wells had a reduction in specific capacity throughout 2023, with Wells 2 and 3 experiencing the worst reduction. Well specific capacity is the volume of water that can be pumped from a well per foot of decreased water level during pumping, measured in gallons per minute per foot of drawdown (gpm/ft), and it can be used as an indicator of well condition. Generally, the higher the specific capacity value the more water a well can pump without negatively effecting aquifer water levels.

Well No. 3 was rehabilitated from April 12 to April 25, 2024. Due to limited success of the first rehabilitation, a second rehabilitation was approved via Change Order 1 and was performed in June 2024. Well No. 2 was rehabilitated from April 26 to May 9, 2024. Well No. 4 was rehabilitated from September 9, 2024 to September 16, 2024. The results of the rehabilitation efforts are summarized below.

	Well 2	Well 3	Well 4
Pre-Rehabilitation Specific Capacity	19.8 gpm/ft	12.9 gpm/ft	13.8 gpm/ft
Post-Rehabilitation Specific Capacity	21.0 gpm/ft	18.0 gpm/ft	21.1 gpm/ft

**Work Completed Since Last Meeting**

Thein successfully completed rehabilitation of Well No. 1. From September 23, 2024 to September 30, 2024. The specific capacity was increased from 18.9 gpm/ft before the rehabilitation to 22.2 gpm/ft, an improvement of more than 17%. However, the post-rehabilitation specific capacity is still only 60-70% of the historical average specific capacity.

**Work to Be Completed**

Thein will submit close out paperwork and the pay application to close out the project.

SEH is preparing a project summary memorandum to provide recommendations for the operation and maintenance of the existing well field in 2025. The memorandum will be presented at the December Utilities Commission meeting.

**FINANCIAL IMPLICATIONS**

The 2024 Well Rehabilitation project expenses will be covered by the City's water fund.

The City was awarded a \$50,000 grant for rehabilitation of Well Nos. 1 & 4.

**STAFF RECOMMENDATIONS**

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**COUNCIL ACTION REQUESTED**

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