

Emergency Repair Work of Raub 5R Well to Tri-County Pump Co.

Riverside Public Utilities - Water

Board of Public Utilities
December 13, 2021

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BACKGROUND

1. Constructed in 2014
2. Responsible for supplying 36% of potable water to the Raub Ion Exchange (IX) Treatment Plant.
3. Raub 4R and 7 Wells are dependent on the Raub 5R Well production in order to keep the Raub IX Plant operable.



Photo shows the Raub Ion Exchange Plant

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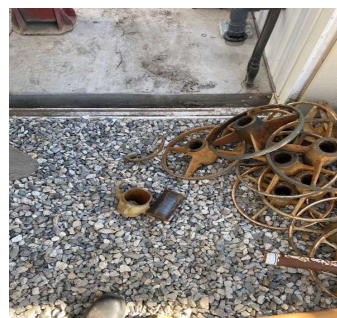


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TIMELINE OF EVENTS

- June 2021
 - Raub 5R was called in as a having a no start condition.
 - Field mechanics went to site for inspection and diagnosis. It was found that the motor would not start and was faulting out.
 - Tri-County Pump Company was contracted to pull and inspect the pump and motor from the well.
 - Tri-County Pump Company provided a pump and motor assembly inspection report.
 - Based on the results of the report, the pump was severely damaged by broken retainers causing high amperage at the motor.

Photo shows a broken retainer which is responsible for the alignment of the line shaft that drives the pump.



34 retainers are required



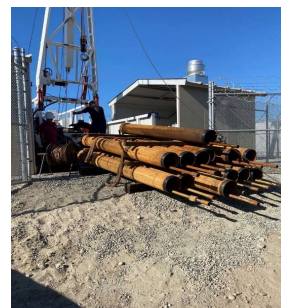
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TIMELINE OF EVENTS

- June 2021 (continued)
 - The pump required a complete rebuild with new impellers and retainers.
- July 2021
 - RPU management was notified of the diagnosis from Tri County Pump Co., and it was determined that the repairs needed to take place as soon as possible.
 - RPU management notified RPU's General Manager and requested an emergency repair work of the Raub 5R Well.
 - RPU 's General Manager granted emergency repair work authorization per Purchasing Exception 23256 Section 702.a.

This photo shows the well column and line shaft piping removal. Those column and line shaft components are appx 10 feet in length each.



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TIMELINE OF EVENTS

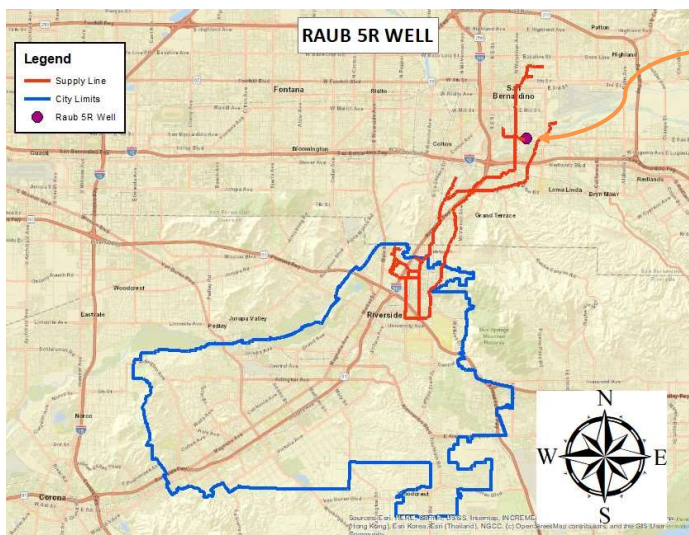
- August 2021
 - Tri County Pump Co. was given the approval to proceed with the repairs.
 - Tri County Pump Co. responded with a quick turn around and was able to repair and install within a two-week time frame.
 - RPU field mechanics confirmed the repairs were completed and turned the well over to the RPU water operators.

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SITE LOCATION



Raub 5R Well in relation to our service area.

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STRATEGIC PLAN ALIGNMENT

- Strategic Priority # 4 – Environmental Stewardship
 - Goal 4.2 Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable, and affordable water to our community.
 - *Water Well Facilities are responsible for producing potable water from local water resources which ensure safe, reliable and affordable water for our community.*

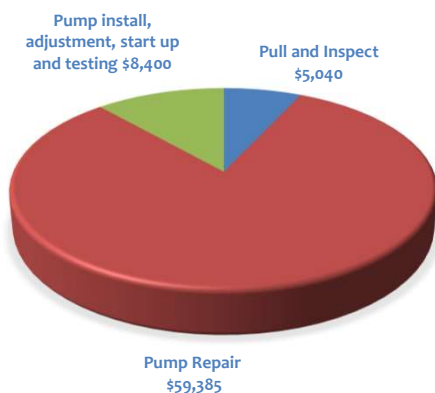
STRATEGIC PLAN ALIGNMENT

- Water well facilities align with the City Council's Strategic Plan 2025 Cross-Cutting Treads based on the following definitions:
 - a.) Community Trust – Customers receive safe, reliable drinking water.
 - b.) Equity – The Raub 5R Well facility produces potable water to Riverside's water infrastructure ensuring safe and reliable water for all members of the community.
 - c.) Fiscal Responsibility – Fiscal responsibility achieved by utilizing grant funding and using local water source at a lower cost compared to import water.

STRATEGIC PLAN ALIGNMENT

- d.) Innovation - Through the collaborative partnership with a local contractor, we were able to provide a quick response in repairing the water well facility with no impact on Riverside's water service to the community.
- e.) Sustainability & Resiliency – Present needs are met utilizing an existing local water source in a sustainable matter from the prioritization of groundwater sources.

FISCAL IMPACT



Total Cost = \$72,824.96

RFP 1721-Service Agreement 2 YR Extension

On December 22, 2020, the board approved and awarded Tri-County Pump Company \$400,000 over a two-year term in which they are to furnish and perform well pump and motor repair services to include well development services.

However, projects that exceed \$50,000 require board approval.

Recommendations

That the Riverside Public Utilities Board:

1. Waive the formal bidding requirements;
2. Approve the after the fact purchase for the emergency repair work of Raub 5R Well to Tri-County Pump Co. for \$72,824.96.