



MEMO TO: Mayor Vandernail and the Board of Trustees  
FROM: Russell Pennington, P.E., Public Works Director  
DATE: March 20, 2019  
SUBJECT: Staff Report PW: Fraser Well 8 Reconstruction Project

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**MATTER BEFORE BOARD:**

Reconstruction and Connection of Well 8, Fraser Well Field

**ACTION REQUESTED:**

Approval of a budgeted expenditure from the Capital Improvement Projects (50-40-730) of the 2019 Water Fund.

**BACKGROUND:**

Fraser Well 8 was originally constructed as a test well in 1984. It was drilled deeper in 1986 with the intention of transitioning it into a production well. Currently the well is not in use and needs equipment and work to enable it to be a production well for the Town.

Fraser is growing and the town's water system needs to, at a minimum, keep pace. Additional diversions (wells) are and will be needed to meet the town's growing demand. Well 8 is drilled and the well house is constructed. The well lacks the hardware, controls, communications, and permission to operate. Reconstruction of well 8 is the most efficient and cost-effective way to bolster Fraser's water production.

Staff has engaged Brown's Hill Engineering, Hydro Resources, and HRS Water Consultants, Inc. to bring the well online. The Resolution before you tonight is only for the contract with Brown's Hill. Staff intends to bring the contracts for Hydro Resources and HRS to the Board of Trustees for approval at a later date.

1. Brown's Hill is providing well controls and communications design and install for the project

**Scope of Work:**

- a. Well 8 RTU + Instrumentation
- b. Provide new RTU Panel with PLC, Cellular Modem and Well Level Display
- c. Provide 2" Mag-meter with Integral Mount Display/Transmitter

- d. Provide Well Level Transmitter with 125' Cable and 115' (50 psi) Measurement Range
- e. Program PLC to Flowpace Well Pump utilizing VFD (VFD provided with Well Pump)
- f. Integrate Well 8 with Fraser WTP Operations
- g. Add Well 8 to Touchscreen and Dialer at Fraser WTP
- h. Add Well 8 to SCADA Computer at Town Hall
- i. Provide Wiring Diagrams and O&M Manual

**Proposal lump sum cost \$17,486**

- 2. HRS is providing hydrological analysis and State Permitting.

Anticipated contract approximately \$22,000

- 3. Hydro Resources will provide pumping hardware and well house plumbing.

Anticipated contract approximately \$25,000

**RECOMMENDATION:**

Motion to approve **Resolution No. 2019-03-05** authorizing the Town Manager to contract with Brown's Hill Engineering to provide and install well controls and communications design for Well 8 using the Capital Improvement Projects (50-40-730) of the 2019 Water Fund in an amount not to exceed \$20,000. Staff expects to approach the Board for the other two components of the project this year as they become more clearly defined.