



To: Mountain Regional Water Administrative Control Board Members
From: Sam Grenlie
Date: February 20th, 2024
Re: Engineering and Development Department Update

OVERVIEW OF PAST MONTH:

1. Engineering and Capital Projects

- a. **Matterhorn Terrace Water Line Replacement:** The design phase for this project has been completed, reaching 100% design. The final design package has been handed off to Summit County for integration into their bidding documents for the upcoming roadway project scheduled for this year. This collaboration is expected to streamline construction efforts and minimize community disruption.
- b. **Atkinson Well 2 Aquifer Storage and Recovery (ASR) Project:** The District submitted its Class V ASR Well Permit Application to the Utah Division of Water Quality (DWQ) on January 16, 2025. DWQ has determined the application to be complete and will now proceed with drafting an Authorization-By-Rule (ABR) for the pilot project, ensuring compliance with state and federal Underground Injection Control (UIC) regulations.
- c. **Summit Park Well 7 Chlorination Project:** The District has ordered equipment for the new chlorination system at Well 7. The equipment selection was reviewed with Operations to ensure consistency across existing systems. A purchase order has been issued, and procurement is in progress. The team is coordinating with Waterford Systems to finalize submittals and expedite delivery, given potential lead times for certain components. Installation will be handled in-house.

2. Water Quality

a. Signal Hill Water Treatment Plant (SHWTP)

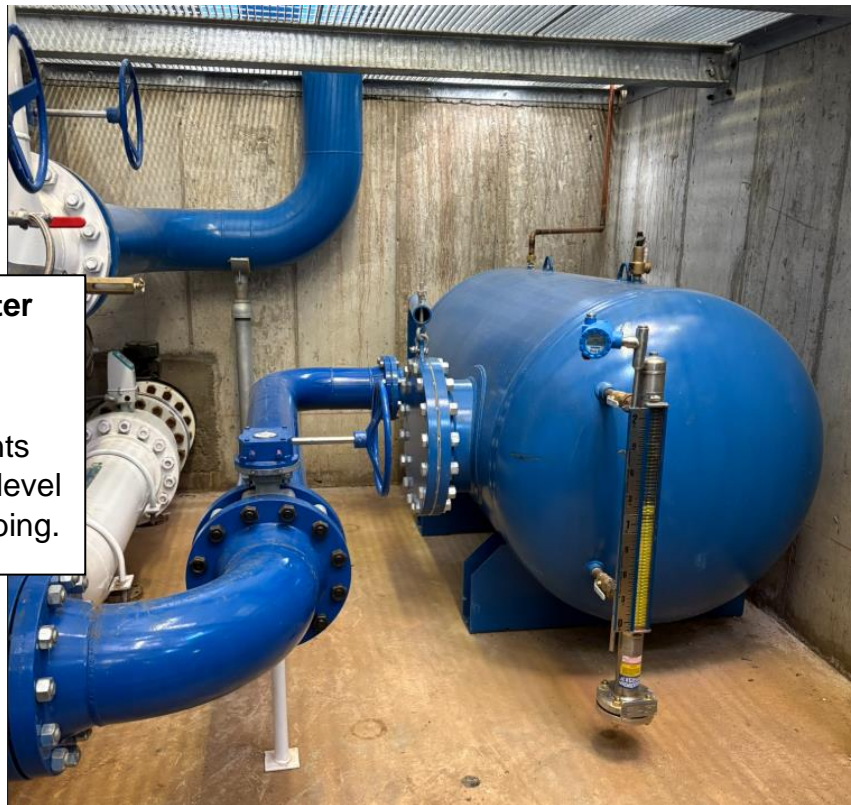
- i. **SHWTP Optimization Design:** The District is advancing the full-scale testing phase to continue evaluation of the direct filtration approach, which would repurpose the existing sedimentation basin for solids handling and reduce project costs. A Conceptual Design Report is nearly finalized and will be completed February 13th. This report can be provided to the Board upon request. A detailed schedule and cost estimate will follow by the end of February.
- ii. **Snyderville Basin Water Reclamation District (SBWRD) Coordination:** SBWRD has evaluated the proposed additional wastewater discharge from the SHWTP, based on peak flows provided by Carollo Engineers. The analysis confirmed that, with the installation of a new main line running south along Promontory Ranch Road, there will be adequate capacity in the existing system to accommodate both the treatment plant expansion and the remainder of the master-planned Promontory development.
- iii. **SHWTP Insulation and Ceiling Repairs:** The ceiling and insulation project at the treatment facility has been successfully completed. MVP Supply, LLC completed the installation, which included ceiling paneling, mounting braces, and structural reinforcements across multiple facility sections. Despite some initial delays, the project was executed efficiently, with all materials delivered and installed as specified.
- iv. **Flash Mix System Update:** The flash mix modifications were successfully installed earlier this month as part of the full-scale testing phase at Signal Hill Water Treatment Plant. The upgraded system includes a Spray Systems full jet nozzle and a submersible pump (see photo next page) to enhance coagulant dispersion and improve particle conditioning before direct filtration.

FOCUS FOR NEXT MONTH:

1. Actively participate in OpenGov Requirements Gathering Workshops to define project requirements and ensure successful implementation.
2. Finalize the detailed cost estimate for Signal Hill Water Treatment Plant improvements by the end of February.
3. Organize next steps for Matterhorn Terrace, Summit Park Well 7, and other 2025 capital projects to maintain momentum.



Flash Mix System Update
Testing the new system prior to restarting the plant this month.



Old Ranch Road Booster Pump Station
Final photo of 2024 mechanical improvements including new surge tank, level gauge, and nitrogen plumbing.