



## **St. Vrain Water Authority Monthly Activity Report March 2024**

**Daily Operations include** completing site walk through, recording daily flow totals and chemical levels and recording daily process control data. Completion of plant start-up and visual inspection of plant equipment. Collect and analyze daily lab samples. Completion of end of day shutdown and lock up.

**3/1/24:** Completed daily operations. Replaced empty sulfuric acid tote.

**3/4/24:** Completed daily operations. Performed an acid maintenance wash on UF #2. Hach onsite to complete quarterly service and calibrations on CL-17 chlorine analyzer and turbidimeters.

**3/5/24:** Completed daily operations. Met with St. Vrain Water Authority board member to review the deep well fall off test plan needed for the EPA.

**3/6/24:** Completed daily operations.

**3/7/24:** Completed daily operations. Performed a chlorine maintenance wash on UF #2.

**3/8/24:** Completed daily operations.

**3/11/24:** Completed daily operations.

**3/12/24:** Completed daily operations.

**3/13/24:** Completed daily operations. Met Colorado Civil Group to begin 24-hour deep well injection pump test by setting the pump system to manual mode and throttling the discharge valve to get the flow to about 15 gpm.

**3/14/24:** Completed daily operations. Stopped 24-hour deep well injection cycle. Disabled both deep well injection pump trains to start the 7-day hold test. Decreasing the finished water production by half during the 7-day hold test.

**3/15/24:** Completed daily operations.

**3/18/23:** Completed daily operations.

**3/19/24:** Completed daily operations.

**3/20/24:** Completed daily operations.

**3/21/24:** Completed daily operations. Restored the plant back to normal production after completing a seven day deep well fall off test.

**3/22/24:** Completed daily operations. Cogent onsite to replace UF #1 feed pump and motor coupling.

**3/25/24:** Completed daily operations. Water Treatment Technology onsite to test the excessive vibration of UF #2 feed pump. Orkin onsite to check mouse traps and refill bait stations. Performed an acid CIP on UF #2.

**3/26/24:** Completed daily operations. Performed chlorine CIP on UF #2.

**3/27/24:** Completed daily operations. Prepping CIP tank for an acid CIP on UF #1.

**3/28/24:** Completed daily operations. Plant off due to required re-test of the 24-hour and seven-day fall off deep well injection test due to issues with the data collection. Performed an acid CIP on UF #1. Prepping the CIP tank for a chlorine CIP on UF #1. Completed the MOR and sent to the office for review and submission to CDPHE. Went to Home Depot to get supplies for the plant.

**3/29/24:** Completed daily operations. Plant still off. Stopped 24-hour deep well injection pumping cycle and disabled both pump trains for the 7-day fall off test. Performed a chlorine CIP on UF #1. Cleaning crew onsite to test seal the floors in the hallway and entrance.

**St. Vrain Water Authority Summary**

<b>Monthly Water Totals</b>	<b>February 2024</b>	<b>March 2024</b>
Raw (MG)	1.428	1.404
Filtrate (MG)	1.299	1.250
Finished (MG)	1.116	1.088
Concentrate (MG)	0.169	0.143
<b>Finished Water Quality</b>		
Average Entry Point Free Chlorine Residual (mg/L)	1.34	1.28
Average Entry Point pH (SU)	7.58	7.45
Average Entry Point Conductivity (µS/m)	368	432
Average Entry Point Fluoride (mg/L)	0.72	0.54
Average Entry Point Alkalinity (mg/L)	178	250