



## **St. Vrain Water Authority Monthly Activity Report October 2023**

**Daily Operations include** recording daily flow totals and chemical levels, record 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.

**10/2/23:** Completed daily operations. Met Plummer Associates, Inc., and Estes Park guests for plant tour.

**10/3/23:** Completed daily operations. Attend weekly progress meeting. Filled and heated CIP tank.

**10/4/23:** Completed daily operations. Complete September MOR. Completed Acid CIP on UF #1.

**10/5/23:** Completed daily operations. Neutralized acid CIP waste. Completed Chlorine CIP on UF #1. Neutralize chlorine CIP waste.

**10/6/23:** Completed daily operations.

**10/9/23:** Completed daily operations. Met Dave Lindsay and Town of Firestone Engineering Department for plant tour.

**10/10/23:** Completed daily operations. Filled CIP tank.

**10/11/23:** Completed daily operations. Completed UF #2 acid maintenance wash. Neutralized MW waste.

**10/12/23:** Completed daily operations.

**10/13/23:** Completed daily operations.

**10/16/23:** Completed daily operations. Set aside extra chairs for disposal. Flushed and cleaned UF filtrate turbidimeter.

**10/17/23:** Completed daily operations. Attended weekly construction meeting. Completed UF #1 acid maintenance wash.

**10/18/23:** Completed daily operations. Met with Dave Lindsay and the IWS Project Manager onsite to evaluate issues with UF Feed Pump #2. Completed UF #1 chlorine maintenance wash.

**10/19/23:** Completed daily operations. Neutralized CIP tank waste.

**10/20/23:** Completed daily operations.

**10/23/23:** Completed daily operations.

**10/24/23:** Completed daily operations. Attend weekly construction meeting. Changed out the sulfuric acid tote, then primed sulfuric acid pump.

**10/25/23:** Completed daily operations. The RO Auto Flush sequence stopped overnight due to high inlet pressure alarm. Attempted to start up plant and RO feed conductivity probe was blown out of the pipe. Called Hyperion and Wigen for assistance restarting RO safely. Instructed by Wigen to open RO inlet valve manually and restart RO. RO restarted successfully manually and shutdown. The RO was restarted successfully in auto. Cleaned up water on the floor.

**10/26/23:** Completed daily operations. Picked up sample bottles from Colorado Analytical. Met Orkin onsite for pest control. Collected quarterly compliance samples and delivered to Colorado Analytical.

**10/27/23:** Completed daily operations. Changed out sodium hydroxide barrel. Checked outdoor piping and heat trace in preparation for freezing temperatures.

**10/30/23:** Completed daily operations. Checked outdoor piping for freezing and leaks.

**10/31/23:** Completed daily operations. Calibrated pH probe on UF CIP line. Met Dave Lindsay onsite and discussed options for rerouting RO concentration.

**Summary Chart**

<b>Monthly Water Totals</b>	<b>October 2023</b>
Raw (MG)	1.6873
Filtrate (MG)	1.5264
Finished (MG)	1.3697
Concentrate (MG)	0.1764
<b>Finished Water Quality</b>	
Average Entry Point Free Chlorine Residual (mg/L)	1.98
Average Entry Point pH (SU)	7.62
Average Entry Point Conductivity ( $\mu$ S/m)	326
Average Entry Point Fluoride (mg/L)	0.57
Average Entry Point Alkalinity (mg/L)	167