



St. Vrain Water Authority Monthly Activity Report January 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.

1/2/24: Completed daily operations. Prepared the monthly report.

1/3/24: Completed daily operations. Filled interstage basin. Added lockbox to gate. Generated emails regarding plant status to REC, Inc. personnel and David Lindsay.

1/4/24: Completed daily operations.

1/5/24: Completed daily operations. ESD onsite repairing conductivity probe and air gap work per the Sanitary Survey. MRI onsite to look at rusting issues.

1/8/24: Completed daily operations. Collected information for the Sanitary Survey requests.

1/9/24: Completed daily operations. Recorded chlorine residuals taken from tank and clearwell. Plant startup plan established.

1/10/24: Completed daily operations. Ran UF system. Finished installation of conductivity probe. Completed clearwell chlorine checks.

1/11/24: Completed daily operations. Plant startup after EPA gave clearance to run deep well injection system. Troubleshooting CL17 issues involving clogged flow meter in unit. Contacted Hach to get replacement parts under service contract.

1/12/24: Completed daily operations. Completed full plant startup with injection well running. Bypassed CL17 flow meter to allow chlorine analyzer to work while waiting for parts.

1/15/24: Completed daily operations. Deep well injection issues, IPT contacted to check on well. Heater issues throughout the treatment plant. ESD brought in kerosene heaters for the process area. Feed pressure issues on RO unit. Changed out RO pre-filters.

1/16/24: Completed daily operations. Horizon Mechanical onsite to troubleshoot heater issues. Purchased space heaters for office area. Filled kerosene heaters in process area. Troubleshooting RO pressure issues.

1/17/23: Completed daily operations. Troubleshooting treatment plant. Contacted Plummer to help walk through issues. Fixed heat trace issues on calcite contactors. Bypassed calcite contactors as they appear to be causing our pressure and flow issues.

1/18/24: Completed daily operations. Adjusting manual valves on clearwell fill/calcite bypass lines. Cleaning up facility from trash and debris from work done. Completed filling and heat UF CIP tank.

1/19/24: Completed daily operations. Let the facility cleaners in. Acid CIP on UF2 completed. Air hold test and neutralized waste and drained. Refilled CIP tank. Chlorine CIP on UF2 completed. CL17 repaired with new parts. Generated email to Plummer requesting a status update of treatment plant issues.

1/22/24: Completed daily operations. Orkin and Trane onsite. Trane is onsite working on the heater issues. Neutralized CIP waste and drained. Completed an air hold test UF2.

1/23/24: Completed daily operations. Contacted Wigen to troubleshoot RO not listening to plant PLC commands. Wigen suggested that the CIP flush tank level was causing the issues. Adjusted calcite bypass lines to put back pressure on CIP line to fill CIP tank.

1/24/24: Completed daily operations. Calibrate pH probes on RO feed and the finished water.

1/25/24: Completed daily operations. Adjusted calcite bypass line valving, found a bad butterfly valve on the bypass line.

1/26/24: Completed daily operations.

1/29/24: Completed daily operations. REC, Inc. personnel onsite helping troubleshoot calcite contactor issues.

1/30/24: Completed daily operations.

1/31/24: Completed daily operations.

St. Vrain WTP Monthly Summary

Monthly Water Totals	January 2024
Raw (MG)	1.9241
Filtrate (MG)	1.8681
Finished (MG)	0.6382
Concentrate (MG)	0.0979
Finished Water Quality	
Average Entry Point Free Chlorine Residual (mg/L)	1.97
Average Entry Point pH (SU)	7.83
Average Entry Point Conductivity (μ S/m)	333
Average Entry Point Fluoride (mg/L)	0.54
Average Entry Point Alkalinity (mg/L)	179