

Forest View Acres Water District

Operations Report – April/May 2021

Prepared by Gabby Begeman -ORC Water Professionals

Arapahoe Water Plant

- The plant effectively produced 76% of demand for April
- No operational difficulties occurred in April.

Booster Pump Station

- This facility has been operational without any issues.

Distribution

- Stainless Steel pilots and tubing will be scheduled for installation ASAP. In creating the annual summary reports, it looks like some of the PRV's have had stainless pilot tubing and fitting installed.
- Monthly routine bacteriological samples taken and were absent for bacteria.
- Quarterly disinfection by-product samples were taken with acceptable results.
- The maps need to be updated and communication to JDS will occur as we can schedule.

Surface Water Plant

- The plant produced an effective 24% of demand for April
- The facility is out of compliance and needs to purchase 3 new turbidimeters. Cost estimate for the turbidimeters is \$13,000. We are required to have a separate turbidimeter on each secondary filter and the combined filter effluent. We currently only have 2/4 turbidimeters operational.
- Completed monthly MOR report for state with violations for turbidity. The facility's programming is intended to shut the facility down on high turbidity, however this function failed and the facility continued to operate for approximately 1.5 days without shut down.
- A new controls company has been hired to review the programming of the PLC at the SWTP upon discovery of the faulty fail safe shut down. We anticipate a few thousand dollar bill for the work on the programming.
- Valve A (raw water valve) was inoperable. We were able to get a replacement actuator after determining the old one was faulty beyond repair at the valve specialist shop. A new actuator was installed on 5/14. Cost of actuator was \$1440.
- The booster pumps need to have bearings and seals installed. ORC can perform this for time and materials. We believe this can be accomplished for under \$1000.
- The recycle pump was inoperable and has had a new tube installed and is determined operational. A new tube has been ordered for a shelf spare for \$1227.60.
- The facility had extremely short filter runs indicating inadequate filtration or breakdown in filtration. We had determined that the secondary filters were low on media. New media was added on 5/13.

- Aqueous Solutions has been contacted to provide assistance with short filter runs, components and service expertise training on rebuilding the 3 way valves. We have 1 leaky valve that needs attention currently and will purchase at least one kit to have onsite as a spare.
- Upon startup we handled a complaint from a nearby resident for high chlorine and have made adjustments to the process to resume normal chlorine residuals in the water leaving the plant.
- We have had an electrician come in to retrofit the existing lights to LED's.

Production Totals

Year	Month	SWTP Production -BW	% of Total	AWP Production	% of Total	Total Production	Total Water Sold	Percentage Discrepancy
2021	Jan	0	0%	1,790,658	100%	1,790,658	1,227,042	31.48%
	Feb	0	0%	1,548,535	100%	1,548,535	1,151,846	25.62%
	Mar	0	0%	1,492,529	100%	1,492,529	1,239,076	16.98%
	Apr	328,318	24%	1,036,751	76%	1,365,069	1,246,361	8.70%
	May							
	Jun							
	Jul							
	Aug							
	Sep							
	Oct							
	Nov							
	Dec							
Total		328,318	6%	5,868,473	94%	6,196,791	4,864,325	21.50%