

Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 2, 2018

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: October 2019 Status Report

Water Quality/Production Issues

The October average daily raw water flow was 10.83 MGD compared to 11.48 MGD in September 2019 and 10.70 MGD in September 2018. Water quality averaged 0.04 NTU which is the same as September 2019. The drinking water maximum contaminant level is 0.30 NTU.

Plant Update

Plant operated well. The solids thickener had 3.0 feet of solids at the end of October which was the same in September. Centrifuge average operating rate was 12.0 gpm compared to 9.8 gpm in August 2019.

Treatment Process Comparison September 2019 vs. October 2019

Parameter	September-19			October-19		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.51	13.81	9.39	10.83	14.33	9.08
Raw Turbidity, NTU	28	67	8	30	126	9
Effluent Turbidity, NTU	0.04	0.05	0.04	0.04	0.08	0.03

Sludge Process Comparison September 2019 vs. October 2019

Parameter	Sep-19	Oct-19	Change	
			Quantity	Percent
Residual Solids, gallons	676,322	790,783	114,461	17%
Backwash, gallons	3,329,000	2,606,000	(723,000)	-22%
Thickener, gallons	372,822	532,008	159,186	43%
Plate Settler, gallons	21,832	35,825	13,993	64%
Centrifuge #1 gallons	203,058	229,058	26,000	13%
Centrifuge #2 gallons	181,208	210,944	29,736	16%
Centrifuge Total	384,266	440,002	55,736	15%
Centrifuge #1 gpm	10.7	12.2	1.4	13%
Centrifuge #2 gpm	11.0	12.2	1.2	11%
Solids Hauled, tons	348.73	321.54	(27.2)	-8%
Feed Solids Concentration	6.9	8.2	1.3	19%
Centrifuge #1 Cake percent	26.4	25.9	0.5	2%
Centrifuge #2 Cake percent	26.2	25.3	(0.9)	-3%

Our ozone system worked well in October. We have raised the target residual to continue evaluation.

Filters ran well. Average filter runs have returned to prior upgrade. Filter runs in September were 11,227 gal/ft² compared to August 2019 which was 12,459 gallons/ft².

Maintenance is continuing change out the sodium hypochlorite pumps.

Upgrade

Trailer manufacturing is continuing. Construction has been delayed further. Our first trailer has not been received.

PLCs are now being constructed by Smith Controls. Completion date is expected soon. Installation documents are complete and being reviewed by State Health. Project is expected to be completed in early 2020.

UV Replacement

Design and construction management services were awarded to Tighe&Bond. Kick off meeting was held.

Staffing

We are currently looking for a Water Operator Trainee to replaced retired Operator Art Ziemens. We expect to interview in early November.