

Poughkeepsies' Water Treatment Facility

MEMORANDUM

September 1, 2018

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: August 2018 Status Report

Water Quality/Production Issues

The August average daily raw water flow was 11.7 MGD compared to 12.0 MGD in July and 11.0 MGD in August 2017. Water quality averaged 0.05 NTU which is slightly greater than July which was 0.04 NTU. The drinking water maximum contaminant level is 0.30 NTU.

Plant Update

Plant operated well. The solids thickener had 6.0 feet of solids at the end of August which was 3 foot greater than July 2018. Centrifuge average operating rate was 13.5 gpm compared to 13.5 gpm in July.

Treatment Process Comparison July 2018 vs. August 2018

Parameter	July-18			August-18		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.96	14.13	9.67	11.66	14.11	9.51
Raw Turbidity, NTU	38	123	10	36	107	8
Effluent Turbidity, NTU	0.04	0.09	0.02	0.05	0.10	0.02

Sludge Process Comparison July 2018 vs. August 2018

Parameter	July-18	August-18	Change	
			Quantity	Percent
Residual Solids, gallons	696,092	878,562	182,470	26%
Backwash, gallons	3,641,000	5,518,000	1,877,000	52%
Thickener, gallons	217,039	271,235	54,196	25%
Plate Settler, gallons	24,139	16,668	(7,471)	-31%
Centrifuge #1 gallons	181,176	231,041	49,865	28%
Centrifuge #2 gallons	55,720	74,773	19,053	34%
Centrifuge Total	236,896	305,814	68,918	29%
Centrifuge #1 gpm	16	14	(2)	-13%
Centrifuge #2 gpm	11	13	2	22%
Solids Hauled, tons	245.29	316.57	71	29%
Feed Solids Concentration	10.0	11.1	1.1	11%
Centrifuge #1 Cake percent	31.0	32.1	1.1	3%
Centrifuge #2 Cake percent	30.1	32.4	2.3	7%

Our ozone system is working well.

We have continued adding chlorine to filter influent in effort to increase filter run times. We are now working with Tighe Bond to develop a plan for improving filter operation. They have contacted several facilities that have biological filters and been told others have seen filter runs reduced by 75-percent.

We are waiting for the replacement check valve. Our supplier has advised that valve will be shipped September 20th. Installation will be completed in October.

Upgrade

PLC bid was released on July 12th. Bids were received August 15th. Two bidders failed to acknowledge the addendum and multiple vendors advised that because of the short time between addendum was issued and bid date they did not submit a bid. Four bids were received. It was determined that project would be rebid.

Trailer manufacturing is continuing.

Staffing

One of our Maintenance Mechanics continues to be out due to a non work foot injury. His latest Doctor's excuse states he will be out until October. This has negatively impacted our overtime expenses.