

# Poughkeepsies' Water Treatment Facility

## MEMORANDUM

January 7, 2017

**To:** Joint Water Board  
**From:** Randy J. Alstadt, P.E.  
Water Plant Administrator  
**Subject:** December 2017 Status Report

### Water Quality/Production Issues

Process data for November 2017 and December 2017 are presented in the following tables. December Average Daily Flow was less than November 2017 by 0.08 MGD. December 2017 demand was 1.21 MGD greater than December 2016. Quality was excellent. Plant effluent turbidity averaged 0.04 NTU while influent turbidity averaged 42 NTU (99.85% reduction).

#### Treatment Process Comparison November 2017 vs. December 2017

Parameter	November-17			December-17		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.86	11.89	9.77	10.78	12.01	9.64
Raw Turbidity, NTU	41	138	7	42	133	12
Effluent Turbidity, NTU	0.06	0.07	0.05	0.04	0.07	0.02

#### Sludge Process Comparison October 2017 vs. November 2017

Parameter	November-17	December-17	Change	
			Quantity	Percent
Residual Solids, gallons	828,272	1,125,065	296,793	36%
Backwash, gallons	2,962,000	3,045,000	83,000	3%
Thickener, gallons	430,866	543,397	112,531	26%
Plate Settler, gallons	18,534	33,994	15,460	83%
Centrifuge #1 gallons	225,544	268,417	42,873	19%
Centrifuge #2 gallons	216,063	352,276	136,213	63%
Centrifuge Total	441,607	620,693	179,086	41%
Centrifuge #1 gpm	20	23	4	19%
Centrifuge #2 gpm	19	32	12	64%
Solids Hauled, tons	166.62	382.82	216	130%
Feed Solids Concentration	6.7	3.7	(3.0)	-45%
Centrifuge #1 Cake percent	31.1	30.3	(0.7)	-2%
Centrifuge #2 Cake percent	30.3	31.0	0.7	2%

### Plant Update

Plant operated well. The solids thickener had 10 feet of solids at the end of December (5.5 feet greater than November). Centrifuge average operating rate was 27 gpm. Centrifuge feed solids concentration average 3.7-percent solids.

Our ozone system is working well. The filters have operated longer between washes, however are significantly less than historical.

**Upgrade**

Trailer manufacturing is continuing.

Progress on resolving RLJ Electric issue with MWBE compliance and project completion has not been resolved. RLJ has not installed new UPS, however, it is not complete.