

# Poughkeepsies' Water Treatment Facility

## MEMORANDUM

March 1, 2017

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

### Water Quality/Production Issues

Process data for January 2018 and February 2018 are presented in the following tables. February Average Daily Flow was less than January 2018 by 0.80 MGD. February 2018 demand was 0.37 MGD greater than February 2017. Quality was excellent. Plant effluent turbidity averaged 0.03 NTU while influent turbidity averaged 40 NTU (99.91% reduction).

#### Treatment Process Comparison January 2018 vs. February 2018

Parameter	January-18			February-18		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.45	12.75	10.69	10.65	11.81	9.23
Raw Turbidity, NTU	33	91	10	40	189	15
Effluent Turbidity, NTU	0.03	0.10	0.02	0.03	0.04	0.02

#### Sludge Process Comparison January 2018 vs. February 2018

Parameter	January-18	February-18	Change	
			Quantity	Percent
Residual Solids, gallons	1,255,738	932,389	(323,349)	-26%
Backwash, gallons	2,972,000	2,749,000	(223,000)	-8%
Thickener, gallons	1,029,606	679,579	(350,027)	-34%
Plate Settler, gallons	61,337	33,463	(27,874)	-45%
Centrifuge #1 gallons	521,049	400,889	(120,160)	-23%
Centrifuge #2 gallons	544,817	341,037	(203,780)	-37%
Centrifuge Total	1,065,866	741,926	(323,940)	-30%
Centrifuge #1 gpm	33	32	(1)	-2%
Centrifuge #2 gpm	28	34	6	21%
Solids Hauled, tons	307.81	236.05	(72)	-23%
Feed Solids Concentration	1.7	2.3	0.6	35%
Centrifuge #1 Cake percent	24.8	25.9	1.1	4%
Centrifuge #2 Cake percent	23.0	26.1	3.1	14%

### Plant Update

Plant operated well. The solids thickener had 7.5 feet of solids at the end of February (5.0 feet less than January). Centrifuge average operating rate was 33 gpm. Centrifuge feed solids concentration average 2.3-percent solids.

Our ozone system is working well. The filters have operated longer between washes. Run hours are slightly less than historical.

**Upgrade**

Trailer manufacturing is continuing. We expect to receive trailers in April 2018.

Progress on resolving RLJ Electric issue with MWBE compliance and project completion has not been resolved. I have scheduled a meeting with RLJ and our Engineers on March.

**Hudson River Consumers Group**

Riverkeeper held a Press Conference at our Facility to release the results of their study concerning Hudson River source water protection. The meeting was well received. All municipalities expressed support on the formation of a unified group effort to protect our watershed.