

# Poughkeepsies' Water Treatment Facility

## MEMORANDUM

February 2, 2017

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

### Water Quality/Production Issues

Process data for December 2017 and January 2018 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 December 2017 vs. January 2018

Parameter	December-17			January-18		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.78	12.01	9.64	11.45	12.75	10.69
Raw Turbidity, NTU	42	133	12	33	91	10
Effluent Turbidity, NTU	0.04	0.07	0.02	0.03	0.10	0.02

#### Sludge Process Comparison December 2017 vs. January 2018

Parameter	December-17	January-18	Change	
			Quantity	Percent
Residual Solids, gallons	1,125,065	1,255,738	130,673	12%
Backwash, gallons	3,045,000	2,972,000	(73,000)	-2%
Thickener, gallons	543,397	1,029,606	486,209	89%
Plate Settler, gallons	33,994	61,337	27,343	80%
Centrifuge #1 gallons	268,417	521,049	252,632	94%
Centrifuge #2 gallons	352,276	544,817	192,541	55%
Centrifuge Total	620,693	1,065,866	445,173	72%
Centrifuge #1 gpm	23	33	9	41%
Centrifuge #2 gpm	32	28	(3)	-11%
Solids Hauled, tons	382.82	307.81	(75)	-20%
Feed Solids Concentration	3.7	1.7	(2.0)	-54%
Centrifuge #1 Cake percent	30.3	24.8	(5.5)	-18%
Centrifuge #2 Cake percent	31.0	23.0	(8.1)	-26%

### Plant Update

Plant operated well. The solids thickener had 7.5 feet of solids at the end of December (3.5 feet less than December). Centrifuge average operating rate was 30.5 gpm. Centrifuge feed solids concentration average 1.7-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.

Progress on resolving RLJ Electric issue with MWBE compliance and project completion has not been resolved. I have discussed issues with EFC. It appears they will issue an MWBE waiver if RLJ can show good faith in their purchase. RLJ continues to state that the electric study required cannot be performed until further information is provided by CH2M Hill. I sent another request to CH2M Hill for their follow-up.

**DEC Audit**

DEC conducted an audit of our Chemical Bulk Storage and Petroleum Storage Permits. Material was provided and tour was conducted. No faults were observed. Inspector stated that the audit was one of his easiest audits and left within 90 minutes.