

# ***Poughkeepsies' Water Treatment Facility***

## **MEMORANDUM**

September 6, 2017

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

### **Water Quality/Production Issues**

Process data for July 2017 and August 2017 are presented in the following tables. August Average Daily Flow was less than July by 0.01 MGD. August 2017 demand was 0.29 MGD greater than August 2016. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 38 NTU (99.9% reduction).

#### **Treatment Process Comparison July 2017 vs. August 2017**

Parameter	July-17			August-17		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	11.00	12.50	8.72	10.99	12.83	9.75
Raw Turbidity, NTU	52	199	10	38	93	4
Effluent Turbidity, NTU	0.07	0.11	0.06	0.06	0.17	0.05

#### **Sludge Process Comparison July 2017 vs. August 2017**

Parameter	July-17	August-17	Change	
			Quantity	Percent
Residual Solids, gallons	1,412,890	1,518,109	105,219	7%
Backwash, gallons	1,711,000	6,408,000	4,697,000	275%
Thickener, gallons	334,398	599,676	265,278	79%
Plate Settler, gallons	26,178	29,487	3,309	13%
Centrifuge #1 gallons	146,000	296,320	150,320	103%
Centrifuge #2 gallons	290,000	343,942	53,942	19%
Centrifuge Total	436,000	640,262	204,262	47%
Centrifuge #1 gpm	14	14	-	0%
Centrifuge #2 gpm	13	13	-	0%
Solids Hauled, tons	335.70	412.53	413	123%
Feed Solids Concentration	9.6	5.5	(4.0)	-42%
Centrifuge #1 Cake percent	33.9	30.4	(3.5)	-10%
Centrifuge #2 Cake percent	34.7	29.4	(5.3)	-15%

### **Plant Update**

Plant operated well. The solids thickener had 5.0 feet of solids at the end of August (3.5 feet less than July). Centrifuge operating rate of 13 gpm. Centrifuge feed solids concentration average 9.6-percent solids which limits centrifuge feed rate.

Our ozone system is working well. The filters have had problems with plugging requiring multiple washes. We have found that filtration hours and volumes are significantly less than prior to becoming biological and expect that trend to continue.

### **Staffing**

Sara Holmes completed the laboratory class and conducted a walking tour with County Health Engineer. She is to obtain the Grade 2A Water Operator License by October 1st. She is scheduled to take this course August 9<sup>th</sup>.

Shane Hunt failed the Rural Water Operator Course Final Examination in July. He is scheduled to take a repeat test September 11<sup>th</sup>. Upon passing he will be able to obtain the Grade 2A Water Operator License.

### **Upgrade**

The design for the PLC upgrade was complete and submitted to State Health for approval. We are currently waiting approval prior to bidding.

EFC approved manufacture of trailers and advised that MWBE requirements would not be necessary and that US steel is not necessary. Convento, the low bidder in 2015, has agreed to keep his bid price and was given a Purchase Order and Notice to Proceed.

RLJ Electric has advised that they are preparing a response to EFC MWBE concerns and will complete the project in September.