

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

## **MEMORANDUM**

May 1, 2020

**To:** Joint Water Board  
**From:** Randy J. Alstadt  
Water Plant Administrator  
**Subject:** April 2020 Status Report

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

The April average daily raw water flow was 10.16 MGD which was the same as March 2020. Water quality averaged 0.04 NTU which is slightly greater than March 2020 which was 0.03 NTU. The drinking water maximum contaminant level is 0.30 NTU.

### **Plant Update**

Plant operated very well. Raw water turbidity remained low at an average of 30 NTU allowing us to better maintain the solids handling process. The solids thickener was at 3 feet of solids at the end of April which was 1 foot greater than the end of March.

#### **Treatment Process Comparison March 2020 vs. April 2020**

Parameter	March-20			April-20		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	10.16	14.55	6.40	10.16	14.01	6.74
Raw Turbidity, NTU	24	56	5	30	94	9
Effluent Turbidity, NTU	0.04	0.06	0.03	0.04	0.06	0.04

#### **Sludge Process Comparison March 2020 vs. April 2020**

Parameter	Mar-20	Apr-20	Change	
			Quantity	Percent
Residual Solids, gallons	985,161	932,942	(52,219)	-5%
Backwash, gallons	1,669,000	1,576,000	(93,000)	-6%
Thickener, gallons	677,917	820,384	142,467	21%
Plate Settler, gallons	31,494	37,082	5,588	18%
Centrifuge #1 gallons	463,468	450,262	(13,206)	-3%
Centrifuge #2 gallons	233,490	364,370	130,880	56%
Centrifuge Total	696,958	814,632	117,674	17%
Centrifuge #1 gpm	26.6	21.8	NA	NA
Centrifuge #2 gpm	16.3	22.6	NA	NA
Solids Hauled, tons	242.57	259.65	17.1	7%
Feed Solids Concentration	3.1	3.7	0.6	21%
Centrifuge #1 Cake percent	24.8	27.2	2.5	10%
Centrifuge #2 Cake percent	23.4	27.2	3.8	16%

Our ozone system worked well.

Filters ran well. Filter runs in April were 18,000 gal/ft<sup>2</sup> compared 17,330 in March.

Our Low Lift Pump manufacturer provided recommendations to upgrade our pumps which will be performed at their shop at no cost. On April 24<sup>th</sup> Low Lift Pump #2 failed. It was removed and shipped to repair shop on April 30<sup>th</sup>.

**UV Replacement**

Specifications for the new UV units are being reviewed. We expect to issue a bid package in May.

**Upgrade**

Trailer manufacturing is continuing. Construction has been delayed further. Our first trailer has not been received.

PLCs are now complete. Armani making additional changes. State Health has stated that they will approve once updated complete package is provided.