Poughkeepsies' Water Treatment Facility

MEMORANDUM

June 3, 2013

To: Joint Water Board

From: Randy J. Alstadt, P.E.
Water Plant Administrator

Subject: **May 2013 Status Report**

Water Quality/Production Issues

Process data for April 2013 and May 2013 are presented in the following tables. Average Daily Flow was up 0.22 MGD (2.5 percent) in May 2013 compared to April 2013. Quality was excellent. Plant effluent turbidity averaged 0.04 NTU while influent turbidity averaged 41 NTU (99.9% reduction).

Treatment Process Comparison April 2013 vs. May 2013

Parameter	April-13			May-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	8.81	13.36	5.64	9.03	13.36	5.33
Raw Turbidity, NTU	46	165	12	41	140	9
Effluent Turbidity, NTU	0.06	0.15	0.03	0.04	0.11	0.03

Sludge Process Comparison April 2013 vs. May 2013

Parameter	April-13	May-13	Change	
			Quantity	Percent
Residual Solids, gallons	708,176	828,508	120,332	17%
Backwash, gallons	1,333,000	1,640,000	307,000	23%
Thickener, gallons	232,479	159,940	(72,539)	-31%
Plate Settler, gallons	24,700	21,795	(2,905)	-12%
Centrifuge #1 gallons	147,627	46,453	(101,174)	-69%
Centrifuge #2 gallons	106,168	121,517	15,349	14%
Centrifuge Total	253,795	167,970	(85,825)	-34%
Centrifuge #1 gpm	6.8	6.8	5.2	76%
Centrifuge #2 gpm	4.9	4.7	6.0	123%
Solids Hauled, tons	275.71	297.91	22.20	8%

Plant Update

Plant operated well.

As of May 31st the solids thickener solids level was at 11.0 feet up 3.5 feet, April 30, 2013. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Plant raw water and effluent meters were tested by ADS Environmental and determined accurate.

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Sodium hypochlorite pumps failed May 21st. Plant was off line for several hours due to inability to call in mechanic. Maintenance Supervisor, Brian Morris was called in and made repairs. College Hill Reservoir was under 10 feet (50% or 2.5 MG) when plant was returned to service. These pumps have been problematic. We budgeted for replacement in 2012 but this was not approved due to reduced income. Pumps are in 2013 budget, however increased unanticipated costs may delay replacement another year.

Centrifuge #1 developed a poly leak in the feed side of the machine. It was discovered the poly was coming from the pulley grease fitting. The machine was shut down & rotating assembly removed for further inspection. Machine was also noticeably louder. Maintenance removed the hub assembly from the bowl. It was revealed that an inner bearing seal had failed. The seal was ordered & replaced.

Antenna system that links the ASTP computer to the server failed. Maintenance has ordered a replacement that will be installed in June.

#2 low lift pump returned to service.

Staffing

Heavy Equipment Operator, Marvin Gibson, was terminated for cause May 22, 2013.

We have offered the position to Michael Fitzpatrick. Michael will start June 17th.

Annual Water Supply Statement

Statement was mailed to City customers May 31, 2013.