Poughkeepsies' Water Treatment Facility

MEMORANDUM

November 12, 2012

To: Joint Water Board

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

Subject: **October 2012 Status Report**

Water Quality/Production Issues

Process data for September 2012 and October 2012 are presented in the following tables. Average Daily Flow was down 0.45 MGD (5.1 percent) in October 2012 compared to September 2012. Quality was excellent. Plant effluent turbidity averaged 0.06 NTU while influent turbidity averaged 41 NTU (99.8% reduction).

Treatment Process Comparison September 2012 vs. October 2012

Parameter	Sep-12			Oct-12		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Flow, MGD	8.87	12.66	4.86	8.42	12.16	3.66
Raw Turbidity, NTU	35	133	8	41	187	10
Effluent Turbidity, NTU	0.07	0.14	0.05	0.06	0.12	0.04

Sludge Process Comparison September 2012 vs. October 2012

Parameter	Sep-12	Oct-12	Change	
			Gallons	Percent
Residual Solids, gallons	739,355	526,911	(212,444)	-29%
Backwash, gallons	844,000	833,000	(11,000)	-1%
Thickener, gallons	178,178	298,441	120,263	67%
Plate Settler, gallons	14,468	18,187	3,719	26%
Centrifuge #1 gallons	104,382	151,492	47,110	45%
Centrifuge #2 gallons	91,692	158,137	66,445	72%
Centrifuge Total	196,074	309,629	113,555	58%
Solids Hauled, tons	195.54	249.92	54.38	28%

Plant Update

Plant operated well.

As of October 31st the solids thickener solids level was the same as the end of September: 5.5 feet.

Central Hudson replaced a damage/defective gas line on our property north of sludge thickener. Work was performed with no impact to water treatment process

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and limited to staff.

Tarp over Sludge Thickener was repaired. Tape used during installation was failing requiring replacement. Tarp is in very good shape.

We have been experiencing multiple control problems. PLC card that controls Hypochlorite and PaCl pumps failed and needed to be replaced. Control of filter #4 effluent valve has had multiple failures. We are continuing investigating this problem.

Filter #5 quartz sleeves and 7 bulbs were replaced.

Brian Morris is being trained in maintaining instruments. Tom Falcone who maintains instruments will be leaving at the end of December.

We are experiencing significant delays in acquiring Purchase Orders. The most significant are listed below.

Purchase orders in system unapproved:

PO request #	Purpose	Amount	Date requested
506	Backflow testing mandated	$1114	10/23/12
491	PLC parts needed for controls	$2500	10/11/12
444	Air Conditioning unit for UPS room unit	$5475	9/20/12