Poughkeepsies' Water Treatment Facility

MEMORANDUM

April 9, 2012

To: Joint Water Board

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

Subject: **February 2012 Status Report**

Water Quality/Production Issues

Process data for February 2012 and March 2012 are presented in the following tables. Flow was up 0.10 MGD in March. Quality was excellent. Plant effluent turbidity averaged 0.05 NTU while influent turbidity averaged 32 NTU (99.8% reduction).

Treatment Process Comparison February 2012 vs. March 2012

Parameter	Feb-12			Mar-12		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Flow, MGD	8.64	11.26	5.94	8.74	11.19	5.06
Raw Turbidity, NTU	44	92	14	32	95	12
Effluent Turbidity, NTU	0.05	0.1	0.04	0.05	0.08	0.04

Sludge Process Comparison February 2012 vs. March 2012

Parameter	Feb-12	Mar-12	Change	
			Gallons	Percent
Residual Solids, gallons	512,123	714,582	202,459	40%
Backwash, gallons	1,118,000	1,113,000	(5,000)	0%
Thickener, gallons	259,715	251,889	(7,826)	-3%
Plate Settler, gallons	17,248	19,475	2,227	13%
Centrifuge #1 gallons	129,856	158,840	28,984	22%
Centrifuge #2 gallons	143,818	151,759	7,941	6%
Centrifuge Total	**273,674**	**310,599**	**36,925**	**13%**

Increase in Residual Solids was due to extra pumping from sedimentation basins that could not be performed earlier this year.

Plant Update

Plant operated well. Centrifuges were in service throughout the month. Solids processing was up 13-percent which has placed the facility in good order. As of March 31st the solids thickener solids level was reduced from 4 feet to 1 foot (36,000 gallons). This puts us in good shape for April when we plan to perform preventive maintenance on the sludge storage tank including replacing the mixer masts.

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Engineering Study

CH2M Hill, Morris Associates will provide final conceptual design report to Board at April Board meeting.

Annual Consumer Confidence Report

The draft report was approved to the Health Department. Copies have been delivered to wholesale customers. We are coordinating printing the City's report for mailing with City and printer: A Copy A Second.

New York State DEC (NYSDEC) Bulk Chemical Storage Review

On March 28th the NYSDEC performed an unannounced audit of our compliance with NYS Chemical Bulk Storage Requirements. The audit, although considered good, identified multiple actions required within the next 30 days that include the following.

1. A compliance review of the Chemical Bulk Storage Regulation is to be performed annually. *Auditor provided forms. Audit will be performed in early April.*
2. The storage tanks are to be certified every 5 years that they have an anticipated life of 10 or more years. *Inspection was performed, however certification was not provided. Certification has since been acquired from inspection company.*
3. Life expectancy of piping must be determined and specified. *Under investigation.*
4. Tanks do not meet requirements for protecting tank bottoms. *Need to investigate further. Believe we are in compliance and need clarification only. Protection was incorporated into original construction.*
5. Tanks are required to have tank level gauge at point of fill. *This was not included in design. We are coordinating effort with control technician from Smith Electric (controls company that performed upgrade).*
6. Tank labeling is insufficient. *New temporary signs have been installed. Final signs will be made by local printer.*

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