Poughkeepsies' Water Treatment Facility

MEMORANDUM

June 3, 2013

To: Joint Water Board

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

Subject: **June 2013 Status Report**

Water Quality/Production Issues

Process data for May 2013 and June 2013 are presented in the following tables. Average Daily Flow was up 0.48 MGD (5.3 percent) in June 2013 compared to May 2013. Quality was excellent. Plant effluent turbidity averaged 0.04 NTU while influent turbidity averaged 41 NTU (99.9% reduction).

Treatment Process Comparison May 2013 vs. June 2013

Parameter	May-13			June-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	9.03	13.36	5.33	9.51	14.04	4.92
Raw Turbidity, NTU	41	140	9	70	207	15
Effluent Turbidity, NTU	0.04	0.11	0.03	0.04	0.07	0.04

Sludge Process Comparison May 2013 vs. June 2013

Parameter	May-13	June-13	Change	
			Quantity	Percent
Residual Solids, gallons	828,508	882,428	53,920	7%
Backwash, gallons	1,640,000	772,000	(868,000)	-53%
Thickener, gallons	159,940	309,975	150,035	94%
Plate Settler, gallons	21,795	29,004	7,209	33%
Centrifuge #1 gallons	46,453	195,862	149,409	322%
Centrifuge #2 gallons	121,517	142,272	20,755	17%
Centrifuge Total	167,970	338,134	170,164	101%
Centrifuge #1 gpm	6.8	5.9	5.2	76%
Centrifuge #2 gpm	4.7	4.7	6.0	129%
Solids Hauled, tons	297.91	400.49	102.58	34%

Management

The Sludge Hauling Permit application was submitted and new annual permit received.

The Spill Response Plan was updated which included a facility chemical storage audit. New permit was applied for and received.

Plant Update

Plant operated well.

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As of June 30th the solids thickener solids level was at 14.5 feet up 3.5 feet from May 31, 2013. We continue to closely monitor levels and encourage overtime when level exceeds 10 feet.

Plant Upgrade

City and Town approved Phase 1 (Centrifuges and appurtenances) in June. Water Board conducted Environmental review and declared project will not negatively impact environment. Town prepared, approved and submitted Map, Plan and Report for Phase 2 of upgrade. City is to act on approval of Phase 2 upgrade at their July 8th Council meeting.

Staffing

Michael Fitzpatrick was hired to fill the vacant Heavy Equipment Operator position. Michael started June 17th.

Health Department Disinfection By-Product Status Meeting

A follow-up meeting was held with Dutchess County Health and our wholesale customers to review progress Water Board has made towards compliance with new Stage 2 Rule. I presented a summary of actions Board has taken and current schedule that identifies full compliance by March 2016. The presentation was well received. Major remaining question is impact to customer water rates due to additional capital expenses and anticipated operating cost additions for electric chemicals and equipment maintenance.

Stage 2 Disinfection By-Product Waiver

The Water Board, City and Town have applied for a 2 year waiver to the Stage 2 Rule. If approved the Stage 1 rule will apply until October 2015. Dutchess County Health Department has expressed support for this approval. It is likely this will be granted based upon our initiated compliance plan.

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