Poughkeepsies' Water Treatment Facility

MEMORANDUM

March 1, 2013

To: Joint Water Board

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

Subject: **February 2013 Status Report**

Water Quality/Production Issues

Process data for January 2013 and February 2013 are presented in the following tables. Average Daily Flow was down 0.06 MGD (-0.6 percent) in February 2013 compared to January 2013. Quality was excellent. Plant effluent turbidity averaged 0.05 NTU while influent turbidity averaged 44 NTU (99.9% reduction).

Treatment Process Comparison January 2013 vs. February 2013

Parameter	January-13			February-13		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Raw Flow, MGD	8.98	11.70	5.83	8.93	11.29	5.92
Raw Turbidity, NTU	43	118	12	44	97	19
Effluent Turbidity, NTU	0.04	0.08	0.03	0.05	0.1	0.03

Sludge Process Comparison January 2013 vs. February 2013

Parameter	January-13	February-13	Change	
			Quantity	Percent
Residual Solids, gallons	606,322	362,266	(244,056)	-40%
Backwash, gallons	1,411,000	1,547,000	136,000	10%
Thickener, gallons	306,947	223,429	(83,518)	-27%
Plate Settler, gallons	11,023	14,412	3,389	31%
Centrifuge #1 gallons	162,447	118,743	(43,704)	-27%
Centrifuge #2 gallons	161,795	115,434	(46,361)	-29%
Centrifuge Total	324,242	234,177	(90,065)	-28%
Centrifuge #1 gpm	5.6	6.5	0.9	16%
Centrifuge #2 gpm	5.7	6.3	0.6	11%
Solids Hauled, tons	343.82	266.18	(77.64)	-23%

Plant Update

Plant operated well. Filter runs have been reduced due to cold water conditions which occurs annually. Centrifuge operating hours was down 175 hours, even though 148 hours of overtime were worked. This was required due to retirement of operator which typically works 168 hours per month, funeral leave of 40 hours and vacation and 192 hours of operator vacation.

As of February 28th the solids thickener solids level was 10.0 feet, down 1.0 feet from the end of January. The decrease reflects a reduction in coagulant dosage from 50 mg/L to 40 mg/L. We continue to closely monitor levels and encourage

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overtime when level exceeds 10 feet.

Low Lift Pump #2 will be taken out for repairs March 5th. Cost for repairs is as follows:

Pump Repair	$22,335
Motor Repair	$4,108
Total	$26,443

In addition, a crane to remove and reinstall the pump will cost $4,200.

Both centrifuges were thoroughly cleaned and inspected and adjustments were made to the backdrive.

Mixer in the Sludge Plant Equalization Basin failed. Mixer was removed and sent to repair shop. Mixer will be reinstalled the week of March 4th.

Staffing

Head Maintenance Mechanic, Joseph Marcinelli continues to haul our solids and perform these duties until a new driver can be hired. Overtime of 39 hours has been required due to lack of truck driver as most of work was performed during normal working hours. We have requested cost proposals from Mr Builts, C S Stone and EarthCare to haul liquid and centrifuged sludge. We have not received any proposals to date. Request forms for replacement have been submitted to the City.

Operator, Jay Benedict, retired February 19, 2013. We had one qualified applicant for the position who has accepted the position and should start March 18th or 25th.