

Poughkeepsies' Joint Water Board

***August 7, 2012
4:30 PM***

Poughkeepsies' Water Treatment Facility

Agenda

1. Approval of July 2, 2012 Minutes
2. Public Participation
3. Plant Status Report
4. Operating Budget Status
5. 2013 Proposed Operating Budget
6. 2013 Proposed Capital Budget
7. Distribution Model Status
8. Bottled Water Investigation Report
9. Old Business
10. New Business

**Next meeting: September 4, 2012 4:30 PM?
*POUGHKEEPSIES' WATER TREATMENT FACILITY***

Poughkeepsies' Joint Water Board

***July 2, 2012
Minutes***

Board Members

Mark Newton
Mayor John Tkazyik
Paul Herman
Sean Eagleton

Others

Randy Alstadt, Administrator
Don Beer, Morris Associates
David Wise, Gellert & Klein
Mike Long, City Administrator
Milo Bunyi, City Finance Commissioner
Keith Ballard, Town Water
Jim Wojtowicz, Town Comptroller
Jesse Purcell, City Water
Jim Wojtowicz, Town Comptroller
Doreen Tignanelli, Customer

1. Approval of June 5, 2012 Minutes

Minutes were approved with minor typing corrections.

- 2. Public Participation** Doreen Tignanelli questioned what status of aeration testing that was discussed at the December 20, 2012. Board Meeting. Randy Alstadt stated meter that was to be used to quantify disinfection byproduct removal was determined unacceptable as a result testing was not performed.

3. Plant Status Report

Randy Alstadt reviewed his written report. Randy stated that High Lift Pump #3 failed and was sent out for repairs. Randy stated that Low Lift Pump #3 tripped out which was determined to be an overheating problem. Sean Eagleton questioned cause, stating based upon his experience temperature should not of caused pump to trip out. Randy stated he would investigate cause further.

4. Operating Budget Status

Randy Alstadt provided Board 2012 operating budget status. Mark Newton requested Randy prepare list of projects that are to be performed under significant budget lines. Randy stated he would review lines with staff and update projects monthly.

Mayor Tkazyik stated Board needs to look at shortage based upon loss of Village of Wappingers Falls water sale. He stated budget needs to be frozen now to prevent ending up short.

Mark Newton stated that he does not see shortage this year as ultimately Village of Wappingers Falls will pay. Mark stated revenue was budget windfall which was extras. Mayor Tkazyik stated if water fund is short we need to take action.

Mark Newton stated it is the Water Boards fiduciary obligation to see needs of plant are met. Mayor Tkazyik stated City and Town cannot afford cost now. Mark replied that Board objective is to take care of plant. Mayor Tkazyik replied that cost deficit is serious concern for City. Sean Eagleton stated that real question needs to be how do we resolve this issue. Mayor Tkazyik stated bleeding needs to stop now.

Sean Eagleton suggested that another meeting might be necessary. Mike Long recommended Board make decisions now and implement action. Sean replied that he is concerned that Board needs to start the process.

Mayor Tkazyik suggested a subgroup meet and come back with proposals. He then questioned David Wise when budget must be approved. David replied that the Inter-Municipal Agreement requires Board to adopt budget by August 16th or proposed budget shall be deemed approved by the Joint Board.

Mayor Tkazyik stated Board needs to deal with 2012 shortage now and need to establish 2013 budget based upon anticipated revenue. Mark Newton stated that Town contributes \$1.6 million to cover their Water Fund expenses. Mark expressed concern that monies are barely sufficient now. Mark stated that he is concerned that plant has been under funded and he has previously proposed adding to the budget for maintenance.

Mayor Tkazyik questioned proposed staffing plan. Sean Eagleton stated Board could quantitatively determine proper staffing. Randy Alstadt replied that evaluation needs to take into consideration risks of reducing staffing.

Mark Newton proposed getting a team together to look for cost prudence.

Mayor Tkazyik stated need to cut \$500.00 in 2012 from budget. Don Beer pointed out that if current staffing is kept there is only roughly \$150,000 in operating equipment. Sean Eagleton proposed City Engineer, Town Engineer and Administrator get together to review budget further.

Milo Bunyi stated that City is receiving \$140,000 less in water sales quarterly. He stated City has 300 vacant homes and that City residents average income is only \$25,000.

Don Beer stated that based upon budget you cannot cut electric and chemical costs. To get proposed cuts it will be necessary to cut staff. Sean Eagleton recommended a detailed look into staffing needs. Don recommended he, Jim Wojtowicz, Rich DuPilka and Milo Bunyi meet with Randy to identify plan.

Milo Bunyi stated that health insurance costs could go up 25-35 percent versus typical 10 percent. Sean Eagleton suggested Board select likely cost based upon available information

5. Disinfection Byproduct Study

Randy stated study is complete. Randy stated that staff has obtained activated carbon which will be tested in pilot plant for effectiveness of total organic carbon

removal.

6. Distribution Model Status

Randy stated purchase order was issued and consultant is moving forward.

7. Bottled Water Investigation

Randy Alstadt stated he has not completed report.

8. Old Business

None.

9. New Business

Mayor Tkazyik stated that City has invited County Executive, Marc Molinaro and Ron Hicks of Dutchess County to plant so we can highlight what we do and get their support to promote our ability to provide good low cost water to potential industries and developments.

Mayor Tkazyik expressed concern that Fishkill is considering building a water plant. He stated that it would be devastating if we lost IBM as water customer. Mike Long stated he would invite IBM to the proposed meeting.

Paul Herman questioned if Board should consider supplying water to tractor trailer companies. Jessie Purcell stated City doesn't have facility. Keith Ballard stated Town provides water for \$60 per truck load. Randy Alstadt stated that it would not be feasible to bring additional truck traffic through Marist College into our plant, however, he pointed out that City could establish a fill site at many sites within City where there is adequate water pressure. Paul suggested City investigate selling water to tractor trailer companies. Keith Ballard stated Town sells 20 to 30 truck loads daily.

Randy Alstadt advised Board he provided proposed capital budget in package for their review.

Board went into executive session to discuss Village of Wappingers Falls. Guests were excused.

Board returned from executive session. Guests returned,

Sean Eagleton moved that David Wise submit request to American Arbitration Association for arbitration between Board and Village. Paul Herman seconded Board vote was unanimous.

Board set next meeting date to be held August 7, 2012 at 4:00 PM.

Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 2, 2012

To: Joint Water Board
From: Randy J. Alstadt, P.E.
Water Plant Administrator
Subject: July 2012 Status Report

Water Quality/Production Issues

Process data for June 2012 and July 2012 are presented in the following tables. Average Daily Flow was up 0.18 MGD (1.8 percent) in June. Quality was excellent. Plant effluent turbidity averaged 0.04 NTU while influent turbidity averaged 44 NTU (99.9% reduction).

Treatment Process Comparison June 2012 vs. July 2012						
Parameter	Jun-12			Jul-12		
	Average	Maximum	Minimum	Average	Maximum	Minimum
Flow, MGD	9.73	13.96	6.05	9.91	13.04	5.46
Raw Turbidity, NTU	51	178	19	44	151	12
Effluent Turbidity, NTU	0.05	0.08	0.04	0.04	0.09	0.03
Sludge Process Comparison June 2012 vs. July 2012						
Parameter	Jun-12	Jul-12	Change			
			Gallons	Percent		
Residual Solids, gallons	830,526	659,959	(170,567)	-21%		
Backwash, gallons	685,000	762,000	77,000	11%		
Thickener, gallons	292,419	214,086	(78,333)	-27%		
Plate Settler, gallons	15,082	12,527	(2,555)	-17%		
Centrifuge #1 gallons	150,734	105,767	(44,967)	-30%		
Centrifuge #2 gallons	154,285	102,663	(51,622)	-33%		
Centrifuge Total	305,019	208,430	(96,589)	-32%		
Solids Hauled, tons	300.66	281.24	(19.42)	-6%		

Plant Update

Plant operated well.

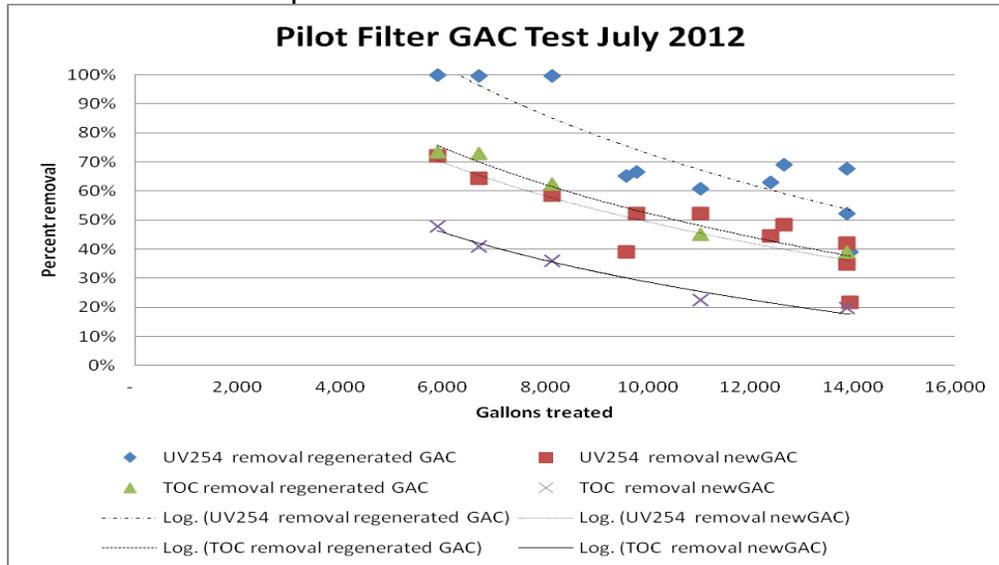
Centrifuges were in service throughout the month. As of July 31st the solids thickener solids level was up from 2 foot to 5 feet due to operator vacation. We anticipate additional overtime will be required in August to keep thickener under control and prevent the need to haul liquid sludge.

High Lift #3 was out for repairs throughout the month. Repairs are scheduled to be complete by August 3rd. High Lift #2 was run continuously throughout the month as it was needed for both low rate and high rate production.

It was determined that the failure of Low Lift #3 in June was not due to excessive heat within the pumping station. The actual cause was a failed relay which was replaced within 24 hours.

Pilot Plant Study

We conducted three (3) pilot filter runs in July to compare effectiveness of total organic carbon (TOC) removal by granular activated carbon (GAC). Original removal was impressive, however, after 14,000 treated TOC removal has decreased to 50-20 percent.



State Revolving Fund Application

No activity.

Power Outage

A power outage occurred during a storm July 26th. Maintenance responded and started generators. Initial communication with Central Hudson was challenging, however, after 2 hours Central Hudson was helpful. Power was returned after 4 hours.

Poughkeepsies' Water Treatment Facility

MEMORANDUM

August 7, 2012

To: Joint Water Project Board

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

Subject: **Cost Analysis of Alternative Sludge Processing**

Sludge is currently processed through the sludge plant that was constructed in 1975. The process includes pumping liquid sludge through two (2) centrifuges forming a cake which is then hauled to our disposal site in Stanfordville, NY. The sludge could alternatively be disposed of as liquid thereby eliminating processing and hauling costs or as a cake which would save hauling costs. Projected costs of these alternatives are summarized in the following table.

Current Procedure	Haul Liquid Sludge	Haul Dried Cake
\$365,591	\$415,407	\$288,282

The cost of liquid hauling is based upon hauling cost of \$0.20 per gallon. It would not be necessary process the sludge through the centrifuges or haul the liquid sludge. This would increase truck traffic from 245 trips per year to 500 to 600.

Cost to haul dried sludge is estimated at \$350 per trip. Under this scenario we would save the cost of a driver and hauling costs.

If an alternate disposal process is selected it would not be necessary to replace the sludge trailers. If liquid sludge is hauled it would not be necessary to upgrade the centrifuges which are currently estimated at \$2,117,700 (2012 dollars). It is recommended that the Board solicit a bid to haul liquid and dried sludge.

Details of the estimate are attached.

Sludge Processing Alternative

	Current Procedure	Haul Liquid Sludge	Haul Cake
	\$ 365,591	\$ 415,407	\$ 288,283

Current Cost to Process Sludge

Labor	Hours	Rate	Cost, dollars
Operator	4375	\$ 41.94	\$ 183,471.09
Driver			\$ 67,704.00
Preventive Maintenance	192	\$ 38.13	\$ 7,320.96
Total			\$ 258,496.05

Electric

Combined HP	Hours	KW Hr	Cost, dollars
50	8750	326,375	\$ 15,339.63

Sludge Disposal

Travel

mileage	trips	Miles	Cost/ mile	Cost, dollars
20	245	4900	\$ 3.00	\$ 14,700.00

Tipping Fee

Tons	\$20/ton
3852.76	\$ 77,055.26

Total \$ 365,590.94

Haul Liquid Sludge

Gallons	dollars/gallon	Cost, dollars
3,904,991	\$ 0.20	\$ 780,998

SAVINGS

Labor	Hours	Rate	Cost, dollars
Operator	4375	\$ 41.94	\$ 183,471.09
Driver			\$ 67,704.00
Preventive Maintenance	192	\$ 38.13	\$ 7,320.96
Total			\$ 258,496.05

Electric

Combined HP	Hours	KW Hr	Cost, dollars
50	8750	326,375	\$ 15,339.63

Travel

mileage	trips	Miles	Cost/ mile	Cost, dollars
20	245	4900	\$ 3.00	\$ 14,700.00

Tipping Fee	Tons	\$20/ton
	3852.76	\$ 77,055.26

Total \$ 415,407.21

Cost to Haul Cake

Estimated Trips	dollars/Trip	Cost, dollars
250	\$ 350	\$ 87,500.00

Labor	Hours	Rate	Cost, dollars
Operator	4375	\$ 41.94	\$ 183,471.09
Preventive Maintenance	192	\$ 38.13	\$ 7,320.96
Total			\$ 190,792.05

Electric

Combined HP	Hours	KW Hr	Cost, dollars
50	8750	326,375	\$ 15,339.63

Tipping Fee	Tons	\$20/ton
	3,853	\$ 77,055.26

SAVINGS

Travel

mileage	trips	Miles	Cost/ mile	Cost, dollars
20	245	4,900	\$ 3.00	\$ 14,700.00

Driver				\$ 67,704.00
		Total		\$ 288,282.94