

**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING
OCTOBER 21, 2010**

Chairman Merancy called the Regular Meeting to order at 6:00PM with the following in attendance:

MEMBERS:

Ronald Merancy, Chairman
Rimas Balsys, Vice Chairman
Pat Mallane
Steven Cote
Catherine Aresta, Secretary

OTHERS:

James Stewart, Dir of Public Works
Rachel Brainard, Secretary
John Batorski, Veolia Water
Attorney Fitzpatrick
Attorney Hess

1. Ronald Merancy opened the meeting with the Pledge of Allegiance.
2. **Executive Session with Borough Attorney Fitzpatrick and Borough Attorney Hess regarding Middlebury negotiations and Veolia negotiations.**

VOTED: Unanimously on a motion by Pat Mallane and seconded by Steve Cote to enter into executive session at 6:01 PM inviting Borough Attorney Hess, Borough Attorney Fitzpatrick, Jim Stewart, and Rachel Brainard.

VOTED: Unanimously on a motion by Steve Cote and seconded by Pat Mallane to exit executive session at 6:25 PM and enter into the regular scheduled meeting.

3. **Commission discussion/decision regarding Veolia and Middlebury negotiations.**

Attorney Hess stated that the Middlebury negotiations are ongoing, but hopefully they will have a proposed agreement for next months meeting.

4. **Commission discussion/decision regarding the interpretation of the current fee schedule and how it applies to additional units created in existing structures.**

Jim Stewart stated that a question came up regarding one family homes being converted to a two family and whether it should be charged an additional connection fee. The Commission had a brief discussion on this issue. Steve Cote stated it would be more usage per unit. Mr. Stewart said the fee is based on units not laterals. He noted that the Commission had agreed that Commercial properties that had additions were to be charged another fee. Chairman Merancy said they should be consistent.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Steve Cote to **INTEPRET** the WPCA fee schedule that 1. Any addition made to

commercial properties will be charged additional connection fees 2. Any existing residential property adding a housing unit within the structure of with an addition will be charged an additional connection fee. Housing units are as defined in the building code.

5. Commission discussion/decision regarding VVNA Proposal for Primary Tank Drain.

Jim Stewart stated the Commission received a letter from ARI dated September 30, 2010. ARI stated in their letter that Veolia is of the opinion that the clog was an uncontrollable circumstance. They are suggesting that Veolia create a detailed cost estimate of the proposed capital modifications and describe the cost benefit analysis. If they put the headworks in, it wouldn't make sense to put the tank in, but you have to look at the time period. Ron Merancy asked if the headworks would eliminate the need for the tank. John Batorski said it would eliminate the grit and rocks from clogging the drains. Chairman Merancy stated that ARI wants a cost analysis to be done and they need to see the cost benefit analysis.

6. Commission discussion/decision regarding Naugatuck Odor Design Fee Sharing.

Attorney Fitzpatrick said they have been meeting with Veolia, the last meeting was October 8, 2010 and there are four significant issues they have. He feels they are good faith discussions with Veolia. They are trying to accomplish a resolution of all the matters and feel they should approach the issues as they arise. Attorney Fitzpatrick discussed the letter from John Hoisak of Veolia dated October 11, 2010 regarding the Naugatuck Odor Consent Order 2048- Cost Sharing of Design Fees. He noted that DEP is requiring it to be completed by December 1, 2010. He noted that even though neither party believes it is their responsibility to cover the \$38,000.00 cost, they have both agreed to cover half of the design requirements which are approximately \$19,000.00. Attorney Fitzpatrick stated he agreed with what Mr. Hoisak wrote in both paragraphs of his letter and that the language was discussed with both Borough Attorneys. He recommends that the board approve the sharing of the pre-design cost of \$19,000.00. Jim Stewart stated they can use the money in either the maintenance sewer line or the consultant and engineering accounts. He stated he would like to delay the payment as long as he can for the year because this year the sewer repair account is a capital fund for the first time and if the money is not all used within this year it will carry over to the next year. Ron Merancy stated he has no problem agreeing with this as long as the document is written in the same manner. Commissioner Cote stated he had no issues with it and Rimas Balsys said he had nothing to add.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to allocate \$19,000.00 in a fund as part of the cost sharing design fees to the Wright-Pierce design study on the odor issue without prejudice and have a document that will indicate as such.

7. Acceptance of Meeting Minutes for August 19, 2010.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Rimas Balsys to **ACCEPT** August 19, 2010 meeting minutes with corrections.

8. Correspondence.

Jim Stewart stated the Commission received a letter from North East Biosolids and Residuals Association dated August 3, 2010.

Mr. Stewart said the Commission received a letter from John Batorski to Mayor Mezzo dated August 23, 2010 regarding the history of the Naugatuck Wastewater Treatment Plant. There was a brief discussion regarding this item.

Mr. Stewart stated the Commission received a memo from ARI regarding the conference call on September 30, 2010.

9. Veolia Water

John Batorski noted there was a correction in the September report which he will fix before submitting for the minutes. Mr. Batorski stated there were numerous visits at the plant from Mr. Lou Santos a DEP representative. He noted there was night surveillance on site for 12 to 14 hours a day. There was one incident where an odor was smelled but it couldn't be determined where it was from. Mr. Batorski was informed that Veolia and the Borough would be sent a notice of violation. The odor was observed at Cross Street Cemetery, but when the representative returned to the plant the odor was gone. Mr. Stewart noted the representative said he could tell it was a sewage plant odor. John Batorski said there have been numerous people on site unannounced which have stated on the record they observed no odor smell. Mr. Batorski said that \$95,000.00 was spent to install the dome, which is complete. He stated Veolia has applied for an energy grant from the state. Mr. Batorski also stated that the new heat exchanger has been installed and it is an \$800,000.00 piece of equipment.

a. Summary of WWTF Operations – August.

This report summarizes the activities at the Borough POTW for August 2010:

1. Highlights and Significant Issues:

The plant met all NPDES effluent limits.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports for additional performance details.

Plant Process Data*	Limit	Actual
Total Suspended Solids (mg/l)		
Influent Avg.	-	166
Effluent Avg.	30	6
Removal Efficiency	85%	97%
Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	70
Effluent Avg.	30	4
Removal Efficiency	85%	94%

*as of 8/31/10

	Oxford	OTR	Naugatuck	Middlebury
Flow Avg. (MGD)			3.5	0.499
0.066				
Sludge Liquid Total (MGal)				
3.95				
Sludge Cake Total (Dry Tons)				
5.13				
Septage Total (MGal)			39,750	29,000
126,050	809,850		Unavailable at time of report.	

Discharge Permit Exceedance:

None to report.

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	16	35
Unconfirmed Odor Complaints	4	8

Compliance & Regulatory Issues

1. On August 31, 2010 at approximately 8 PM, Lou Santos from CTDEP performed an unannounced odor inspection. Chris Makuch, Asst Plant Manager was immediately notified as was the Plant Manager. Chris came to the plant to find the inspector on tour with the plant operator. The inspector reported he observed a cake of sludge being dumped. He reported that he observed the normal musty odor associated with an aeration tank and that no abnormal odors were on site. Mr. Santos stated he would offer to lead a plant tour to local residents. The tour is scheduled for September 20, 2010 at 10 AM.
2. CTDEP Air Bureau (Seng Phouthakoun, Mark Potash, and Bob Girard) met at the plant on August 3, 2010 at 9 AM to discuss the status of recommendations listed in the Odor Control Evaluation report. Jim Stewart, Public Works Director for Naugatuck, Mark Zimmerman and Jon Hoisak also attended. A plant tour followed the discussion with no abnormal odors observed.
3. On August 19, 2010 there was a public hearing at the regular monthly WPCA meeting. Jaimeson Sinclair from CTDEP attended the public hearing and addressed the local residents. Residents expressed their frustration regarding odors. Mayor Mezzo also spoke at the public hearing.
4. There were 16 odor complaints during the month of August (as of 8/27/10). Four did not correlate with the wind direction.
5. To date, we have had no response to our request from CTDEP for funding for ammonia sensors/controls and portable ORP sensors.
6. There has been no response from CT DEP regarding our response for the Notice of Violation #16418 on the incinerator.

7. Mercury Consent Order 8282: No updates to report.

Personnel

1. John Visser and Chris Makuch passed their Connecticut Wastewater certification exams, Grade 1 and Grade IV exams respectively.

Health & Safety

1. There were no recordable safety related incidents in August. Supervisors try to have a 5 minute safety discussion each day as jobs are assigned.
2. The Respirator Plan, Emergency Plan, and SPCC Plan are under revision and almost complete. MSDS booklets have finally been updated and signed off. The Emergency Plan has been revised and is under review.
3. In addition to personal PPE, PPE has been placed in prominent locations near the sodium hypochlorite and sodium bisulfite areas.

Operational Information

1. Monthly operator training/review was for chlorination/dechlorination. Review centered on the chlorine analyzers, NPDES permit limits for fecal coliform, and basic troubleshooting. Training sheets documented the training.
2. Hot Oil expert Jackie Miller visited the site 8/2-8/4 to review the hot oil system and provide recommendations. She also provided training to the staff.
3. Work on the #2 thickener dome, drive and weir replacement has started.
4. August 24th and 25th Contec Systems in to install new CEM's Data (Continuous Emission Monitoring) acquisition software. Staff also received operator level training. Technical level training was provided to those personnel that will have that access level.
5. All personnel have been issued their proper PPE (with appropriate signoff's).
6. Staff is developing a shutdown schedule for the next scheduled incinerator shutdown.
7. The Utility/Chemical spreadsheet is being updated.
8. Polymer/press operations are under review with Operations.
9. Variable for Hach-Wims system are being updated and forms organized.
10. A second OBAN odor counteractant system has been installed for the cake truck staging area.
11. Biodegradable sample cups are now in use as opposed to plastic sample cups.
12. Ash hauling continues. The north lagoon is empty and is in service.
13. The primary tanks failed in August. Veolia's UGAM (Underground Asset Management) was called to vacuum out the cross collector as the drains are not functional.
14. The #4 secondary tank cross collector was repaired.
15. The canvas covers for the primary tanks have been shipped and are due by the end of August. They will be immediately installed.

Maintenance

1. The parts have been installed for the south j-spin. Start up lasted for ½ hour before problems occurred with the roto-diff unit. The entire bowl had to be removed again and repairs made (2 more days labor). The unit was again started up and has been running for 24 hours at 90 gpm.
2. One of the cross collector failed due to rags. Parts for these tanks have been put on order to make necessary upgrades and repairs. The #3 secondary clarifier was taken off line to repair leaking scum trough and replace drive chains and sprockets. The cross collector in #4 Secondary was broken and is now repaired.
3. Contractors have started work on thickener #2 weir repairs, catwalk repairs and dome installation, as well as painting the tank Work is to finish this month.
4. Hypo and caustic pumps are being installed near the respective tanks to feed each scrubber and eliminate the use of day tanks.
5. A new plant water filter was installed for the emulsion polymer blend system for the north J-Spin. The unit will be placed in service in September.
6. Raw sewage pumps 1&4 were rebuilt this month; both were victims of large rags fouling the impellers. A picture is attached for reference.
7. All maintenance employees attended a class on thermal oil put on by Jackie Miller.
8. Skylights were installed on the roof in place of old exhaust fans and roofing patches were made in an attempt to minimize roof leaks.
9. The TDU fluid coupling has developed a slight crack and is leaking we are keeping it full of oil for now. We will order a new one (~\$8K) to be installed at shutdown. TDU was shut down on 3 occasions due to rocks and a piece of a wrench going through it.
10. Odor counteractant spray system has been installed for the sludge cake unloading area.
11. Condition Monitoring / Reliability
 - a. The Vibration analyzer has been tested on the following equipment. ID Fan, FAB, TDU, Purge Air Blowers, Centrifuge #1, RSPs and plant water pumps. Monthly testing of the plant equipment is continuing and fine tuning of the monitoring program is ongoing.
12. The TDU Thermal Drying Unit) has lost many plows and rakes due to rags. Starting August 13th, we had three shutdowns of the TDU and incinerator. The plows have been breaking off on a regular basis from rags. East Windsor Welding is replacing as many plows as they can during the Monday shutdowns.
13. Raw Sewage Pumps
 - a. Waiting on the parts for RSP #1, which has a broken stuffing box housing. Pump will be rebuilt once parts arrive.
 - b. New parts for RSP #4 arrived and the pump was put back into service. This pump is now identical to pump #2.

c. Single flute impellers for the Worthington pumps are not available. We are waiting on pricing for the Fairbanks Morse impellers and will decide if we want to pursue this path.

d. RSP #1 was clogged again several times with rags the week of August 22nd. Recently this has become a weekly occurrence again. Maintenance removed approximately a half yard of rags from this pump. Lack of headworks is causing a significant amount of maintenance work to remove rags and grit from the equipment. A picture is attached for reference.

14. Abel Pumps

A complete set of spare parts for the Abel pumps have been quoted at approximately \$100,000.

Client Issues

1. Work is slowly proceeding with the preparation/completion of the annual reports.
2. No action to date regarding the letter detailing the required repairs to the primary tank drains (uncontrollable circumstance) that was presented to the WPCA Board on May 20, 2010. Their June WPCA meeting was cancelled due to lack of a quorum. Primary tank drain repairs due to accumulations of grit and rocks were estimated to cost approximately \$50,000.

Capital Projects

1. Jen Muir has completed her evaluation of the aeration tank aeration blowers for energy grant upgrades. Two high efficiency units were recommended as opposed to three high efficiency units. A letter has been sent to the local utility the week of August 22, 2010 requesting the amount of funding available for this project.

Twice the week of August 22, 2010, this is what we had to contend with.



b. Summary of WWTF Operations – September.

This report summarizes the activities at the Borough POTW for September 2010:

1. Highlights and Significant Issues:

The plant met all NPDES effluent limits. Please see the attached reports for additional performance details.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports for additional performance details.

Plant Process Data*	Limit	Actual
Total Suspended Solids (mg/l)		
Influent Avg.	-	298
Effluent Avg.	30	5
Removal Efficiency	85%	99%

Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	208
Effluent Avg.	30	4
Removal Efficiency	85%	98%

* As of 10/8/10

Oxford	OTR	Naugatuck	Middlebury
Aug Flow Avg. (MGD)		3.5	0.391*
0.080*			
Sept Flow Avg. (MGD)		3.3	0.499
Sludge Liquid Total (MGal)			0.079
3.60			
Sludge Cake Total (Dry Tons)			
5.48			
Septage Total (MGal)		61,450	28,500
159,400	835,700	*Corrected flow data	

Discharge Permit Exceedance:

None to report.

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	12	47
Unconfirmed Odor Complaints	0	12

Compliance & Regulatory Issues

8. The annual stack test is tentatively scheduled for December 7 through 9, 2010. CK Environmental will prepare the required ITT form for submission to CTDEP.
9. Lou Santos, DEP inspector came in four times unannounced. On 8/31/2010 at 8 PM, Chris Makuch was called in by the operators and met Lou in the plant. Lou could only smell a musty odor from aeration tanks. On Tuesday September 7th, Mr. Santos came in at 8 PM for another inspection. He was gone by the time Chris arrived. It was reported that a smell was coming from the primaries. On September 15, 2010, Mr. Santos came in at 6PM. Chris was still here and toured the plant with Lou. No strong odors detected. That same morning Lou Santos and Philip Schnell, also a DEP inspector came in for a 6.5 hour odor tour of the plant. Several minor issues (cleaning the top of the silo and installing plywood covers on the old multiple hearth incinerator emergency bypass stacks) were pointed out and these issues have been taken care of by plant personnel to the satisfaction of the DEP inspectors.
On Sept. 29, Lou Santos stopped by the facility to discuss dust that emanated from the facility on Sept 21, 2010 at 2 PM. A cemetery employee took a video of the plant on Sept 21 that depicted a very slight dust cloud. The dust cloud was attributed to sand blasting the #2 sludge thickener (to enable the dome installation). He also stated during the evenings of Monday, Sept 27, and Tuesday, Sept 28, he did odor surveillance in the cemetery and surrounding plant areas and did not detect any odors. In addition, he stated that on Sept. 29 in the morning hours in areas around the facility, and cemetery, he did not detect any odors. He requested that manholes be inspected in the Cross Street area. Plant staff responded to open manholes as needed.
10. There were 12 odor complaints (attached) during the month of September. Seven of them were from Meadowbrook residents, one from the cemetery caretaker, and three from the area north of the plant, and one from the Route 8, exit 27 area.
11. CTDEP sent a memo requesting additional quotes for ammonia sensors (which are funded from the nitrogen credit program). The letter was contrary to the initial memo that stated if the facility was to standardize on one vendor, additional quotations were not required. The second letter stated the identical requirements as the first letter. A reply was drafted that included our original response, a second letter detailing why we desire to remain with Hach, and 3 quotes for the same equipment.
12. There has been no response from CT DEP regarding our response for the Notice of Violation #16418 on the incinerator.

13. Mercury Consent Order 8282: No updates to report.
14. SPCC Plan is complete. Training on the updated plan will be scheduled.

Personnel

2. An Operator job has been advertised to replace an Operations employee that requested a transfer to the Seymour facility. The transfer is tentatively scheduled for mid December 2010.

Health & Safety

4. There were no recordable safety related incidents in September. Supervisors try to have a 5 minute safety discussion each day as jobs are assigned.
5. The Respirator Plan is 90% complete. The SPCC Plan is complete. MSDS booklet update is complete. The Emergency plan update is 50% complete.

Operational Information

1. Monthly operator training was on Biosystems Gas Detectors. Permissible limits of gasses and oxygen deficiencies bump test, basic operation of meters and proper handling and storage of meters were discussed with appropriate training log sign off.
2. An incinerator planning shut down meeting with all involved contractors took place on September 23rd. Schedules, coordination, safety were among the items discussed. There is significant work required in advance of this job. For example, to replace the 36 inch butterfly valves that control the exhaust gas through the hot oil heat exchanger, compressed air lines and hot oil drain lines must be relocated (cost estimate is \$5,000), the oxygen analyzer must be relocated, and temporary supports (due to an expansion joint) must be installed to support the ductwork between the heat exchanger and the 36 inch valves.
3. On September 20, 2010 a plant tour was conducted by John Hoisak and John Batorski. In attendance were two residents of Meadowbrook (Peg Shehey, Meg Hrebrik), the Mayor, Director of Public Works, Town Engineer, a CTDEP representative (Lou Santos) and a WPC board member.
4. #3 sludge Storage tank was deragged and degrittied.
5. The Utility/Chemical spreadsheet is being updated.
6. Ash hauling continues. The north lagoon has been placed in service; the south lagoon is being emptied.
7. The primary tanks failed in September and repairs were made.
8. The canvas covers for the primary are being installed. There were delays in getting the covers. Installation should be complete by late` October.
9. Staff is being introduced to more closely manage the hot oil temperatures. This will be a work in progress.
10. Pricing for a manually cleaned bar screen, camera to monitor the screen, and a rag handling device will be investigated. The lack of a bar screen continues to cause significant delays with projects and PM's as so much time is spent removing rags from the raw sewage pumps, and repairing them.

Maintenance

15. The south j-spin has been running all month with no mechanical problems. Adjusting the centrate however has been a problem for the operators. The north j-spin is currently undergoing extensive repairs. All parts are now in house and assembly has begun, and should be up and running week of Oct. 4, 2010.
16. Primary tanks failed again; one broken drive chain on #2 made us switch back to the #1 tank. Repairs have been made.
17. Tarps have arrived for the primary tanks and are being installed by Caldon.
18. The new cross collector chains and flights have arrived and are awaiting an install date.
19. We are currently investigating the possibility of using the old mixers from the industrial (Uniroyal) tank, as mixers in the anoxic zone of the aeration basin.
20. Hypo and caustic pumps are being installed near the respective tanks to feed each scrubber and eliminate the use of day tanks.
21. Raw sewage pump 2 had a blown seal and has been replaced. Rags remain an everyday problem here for our RSP's. A couple heavy rainfalls have washed all rags into our wet well which required staff to remove them from pumps again and again. Much time is wasted in this activity.
22. Over time was for the department was up this month used for north Polyblend installation, north j-spin repairs, and pipe heat tracing for the chemical feed lines.
23. The north ash lagoon is now back online. G&L have begun emptying the south lagoon.
24. The north Polyblend install has been completed as well as all new polymer piping to feed both j-spins.
25. A new belt was installed on the gravity thickener.
26. The north ash pump was in need of repairs. An old one is being restored as a replacement. The ash slurry tank will be eliminated and new CPVC piping, with rebuilt pumps will be installed. The new piping is necessary to eliminate continual failures of the original piping. The ash discharge piping will be modified to enable more reliable operation.
27. New CPVC piping was ordered for the discharge of the tray scrubber for the incinerator

Client / Merchant Customer Issues

3. Work continues with the preparation/completion of the annual reports.
4. No action to date regarding the letter detailing the required repairs to the primary tank drains (uncontrollable circumstance) that was presented to the WPCA Board on May 20, 2010. Their September WPCA meeting was cancelled (no reason was given). Primary tank drain repairs due to accumulations of grit and rocks were estimated to cost approximately \$50,000.

Capital Projects

2. Jen Muir has completed her evaluation of the aeration tank aeration blowers and a letter has been sent to the local utility the week of August 22, 2010 requesting the amount of Energy Grant funding available for this project. The week of September 27, the utility requested additional information from Jen Muir for this project. The requested information on regarding air flows was sent to the utility by Jen Muir.

3. The #2 Thickener dome project is proceeding slowly. There are significant metal repairs that are required. The main access platform had to be totally replaced as well as portions of the rake assembly. The sandblasting is complete, painting is expected to start as soon as the metal work is complete, followed by the dome installation. Mid October is the estimated completion date.

10. Adjournment.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Rimas Balsys to **ADJOURN** the meeting at 7:29 PM.

Attest: Catherine Aresta, Secretary/rb