

**WATER POLLUTION CONTROL AUTHORITY  
REGULAR MEETING  
JULY 15, 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—Arrived at 6:05PM  
Catherine Aresta, Secretary-arrived at 6:10PM

**OTHERS:**

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

1. Ronald Merancy opened the meeting with the Pledge of Allegiance.
2. **VOTED: Unanimously** on a motion by Pat Mallane and seconded by Rimas Balsys to enter into executive session with Borough Attorney Hess inviting in James Stewart and Rachel Brainard.

Steve Cote arrived at 6:05 P.M.

Catherine Aresta arrived at 6:10 P.M.

**VOTED: Unanimously** on a motion by Rimas Balsys and seconded by Pat Mallane the Commission exited executive session at 6:50 P.M.

3. **Commission discussion/decision regarding Veolia and Middlebury negotiations.**  
Attorney Hess asked John Batorski if he had any information on how Middlebury charges its residents in the cleaning of their septic systems. Mr. Batorski stated the company gets a permit or ticket from the Middlebury Town Hall for each house it pumps. He did not know the specific dollar amount that Middlebury charges. Attorney Hess asked how the plant measures the flow and the location of where the trucks come from when they are dumping at plant. John said they sign off on the ticket the volume and where it came from. Attorney Hess questioned whether they could measure accurate flows and Mr. Batorski answered yes.
4. **Acceptance of May 20, 2010 Regular Meeting Minutes.**  
**VOTED: Unanimously** On a motion by Rimas Balsys and seconded by Catherine Aresta to **ACCEPT** the May 20, 2010 regular meeting minutes as presented.
5. **Correspondence**  
Jim Stewart noted that in the Commissions packets was the incinerator lease agreement for CAMS. He stated they are adjustment to all the contract values due to the sewer price index which was developed by ARI and that Veolia checked

and agreed with. He said there were minor changes to the format but not the actual value. He said one date had to be adjusted but not the actual format. Mr. Stewart said there was a 3.34% across the board increase in all the fees for the year. Jim Stewart said he needed a motion to authorize the chairman to sign the document.

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **AUTHORIZE** Ronald Merancy to sign off on the CAMS along with the Mayor's signature.

Jim Stewart told the Commission he had received a letter from the Subway located on Rubber Avenue requesting to be waived from having to install the mechanical grease trap to be FOG compliant. Ron Merancy said he was not in favor of waiving his requirement but had noted that if he had been able to get reclassified by the State of CT or Valley Health Department then he would have considered it. The rest of the Commission agreed with Chairman Merancy. Mr. Stewart said we will send him a letter stating their decision.

Jim Stewart said we had received 2 letters from the State of CT, one approving the odor control report and the other revoking the Title V permit. Mr. Stewart also had a letter from Kathy from ARI regarding the odor consent order which lists all the work done by Veolia. Jim stated it was a table of all the work required. Chairman Merancy asked if this was based on the engineering report sent to the State and the State accepting it. Mr. Stewart answered yes. John Hoisak stated they sent a letter to the State updating them on progress prior to the letter from the State stating they approved it.

**6. Veolia Water Summary of WWTF Operations – May and June.**

Ron Merancy asked what sort of controls were in place at the plant for the condition of the trucks they accept sludge from. For example, trucks that are not in pristine shape which could contribute to odors or sludge coming in untreated. He asked if there were any set standards. John Batorski stated all trucks have to be DOT compliant and that odors come from not all truck tarps being comparable, but that are all DOT compliant. Jim Stewart asked if the trucks were hosed down after they were emptied. Mr. Batorski answered yes. Steve Cote noted that H.I. Stone trucks are the biggest offenders.

John Batorski went through his report. He stated that in June there were 6 odor inspections by DEP, 3 of those were unannounced, and on all 6 inspections everything was fine at the plant. There were no permit violations, and the plant has been running very well. He said they are working on the collection system in pump stations. He said there was a problem with the drain and it would cost an estimated \$50,000.00 to replace. He stated Veolia gave 2 scholarships in May and the plant was called and thanked by the individual students. Veolia also gave a donation to the town fireworks display. Chairman Merancy asked if they knew if Beacon Falls cleaned their sewer lines and if they have a responsibility to maintain them. John said he would check the Beacon Falls line sewer map. A discussion ensued over the pump station at Cross Street Field.

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

**1. Highlights and Significant Issues:**

The plant met all NPDES effluent limits.

**2. Collection System Update:**

Veolia's Underground Asset Manager, Jon Mongie will attend the June meeting to present information on Veolia's underground asset management capabilities.

**3. Plant Performance Summary:**

Please see the attached reports for additional performance details.

<b>Plant Process Data</b>	<b>Limit</b>	<b>Actual</b>
Total Suspended Solids (mg/l)		
Influent Avg.	-	322
Effluent Avg.	30	5
Removal Efficiency	85%	98%

<b>Plant Process Data</b>	<b>Limit</b>	<b>Actual</b>
Carbonaceous BOD		
Influent Avg.	-	155
Effluent Avg.	30	4
Removal Efficiency	85%	97%

**Plant Flow Data (as of 1/7/2010)**

	<b>Oxford</b>	<b>OTR</b>	<b>Naugatuck</b>	<b>Middlebury</b>	
Flow Avg. (MGD)			4.2	0.499	0.050
Sludge Liquid Total (MGal)					
5.01					
Sludge Cake Total (Dry Tons)					
5,250					
Septage Total (MGal)			82,500	67,000	
198,250		656,000			

**Discharge Permit Exceedance:**

None to report.

**Safety Incidents and Odor Complaints**

	<b>Month</b>	<b>YTD</b>
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	5	5
Unconfirmed Odor Complaints	2	2

**Compliance & Regulatory Issues**

1. Friday, May 28, at approximately 11 AM, CT DEP, Phil Schnell of the Air Bureau came in for an announced odor inspection. No odors were observed by the inspector who toured the entire facility including the ash lagoon area.
2. There were 5 odor complaints during the month of May.
3. CTDEP sent a notice stating that the PIQ Inspection (Pre Inspection Questionnaire) will take place June 22 and June 23.
4. A letter was prepared and sent to CTDEP requesting funding for ammonia sensors/controls and portable ORP sensors before the March 31, 2010 deadline. To date, we have had no response to our request.
5. A revised Title V Permit was received from CTDEP granting the minor modification (fewer emissions). The permit is not needed as there are fewer emissions.
6. There has been no response from CT DEP regarding our response for the Notice of Violation #16418 on the incinerator.
7. An update regarding the Odor Study improvements was sent to CTDEP.
8. Odor Consent Order update: A Notice of Approval of the Odor evaluation report was received June 9, 2010.
9. Mercury Consent Order 8282: No updates to report.
10. SPCC Plan update is nearing completion. A plant tour to confirm data took place May 12, 2010.

#### **Personnel**

1. Mr. Edward Jensen was hired to fill the Collections position. He will start June 2, 2010.

#### **Health & Safety**

1. A PPE inventory will take place at the next safety meeting June 14<sup>th</sup> and 15<sup>th</sup>. Staff will be issued PPE consisting of: Chemical/Impact goggles face shields, flashlights, rain coats, and steel toe boots as required.
2. Fire Extinguisher training will take place June 21 and June 22. Sessions will last approximately two hours.
3. A 5 gas (LEL, O2, H2S, CO and SO2) hazardous gas analyzer was ordered.
4. There were no recordable safety related incidents in May.
5. Safety and Safety Committee Meeting were held in May.
6. The Respirator Plan, Emergency Plan, MSDS booklets and SPCC Plan are under revision.
7. A vac truck SOP is being developed and is close to being completed.
8. OSHA 10 hour training was provided to one-half of the staff by Mr. Bullock. The next training session is scheduled during the month of May.

#### **Operational Information**

1. Replacement roof and fascia board for Horton Hill pump station was completed May 17<sup>th</sup> the Hop Brook pump station was cleaned of weeds and brush.
2. Variables for Hach-WIMS system are being updated and forms organized.
3. The replacement primary heat exchanger is on order with an approximate late August 2010 delivery date.

4. Caldon installed a second exhaust duct support and modified the existing exhaust duct support. External duct insulation should be installed late May or June 2010 (depending upon the weather).
5. The primary tanks failed twice again in May due to heavy accumulations of rocks/grit. Substantial work is required to repair the damage (broken flights, frozen bearings, inadequate alignment etc). Spare parts list are being developed.
6. The new FRP cover for #2 thickener is onsite. Installation is tentatively scheduled for July/August.
7. United Alarms has finished installation of alarms on all pump stations. High and Low well level alarms are being monitored. Schmidt electric has to install phase loss sensors for phase loss alarm to be complete. This should be complete by the first week of June and a full alarm test will be done.
8. Godwin Pumps will be invited back again to discuss emergency planning for pump station and plant related emergency pumping. More work is required to complete this task.
9. The #4 raw sewage pump inlet valve replacement will be scheduled as soon as influent flows subside.
10. A meeting will be scheduled for the staff to discuss the implementation of the new time clock system. Details on this training will be provided as they become available.
11. Overtime was used this month to cover scheduled vacation vacancies, cleaning of the primary tanks, and filling in for Collections.

### **Maintenance**

1. The parts have arrived for the south j-spin (centrifuge). Screens have been installed but still need to be modified. Bowl assembly should be installed by June 30. The feed pump will be rebuilt and the new slide gate actuator installed.
2. Work on disinfection system has been completed. Wireless transmitters, chlorine analyzers, and feed pumps installed by maintenance. NIC Systems completed installation of controls programming and SCADA system monitoring.
3. NIC Systems is now working on revamp of RSP controls programming, delivered preliminary screens and program last week for our inspection and approval.
4. A lot of time was spent on primary clarifiers this month. Sludge collecting chains on #1 primary were broken, several flights and wear strips needed to be replaced. #2 Primary chain main flights on south side jumped off of the drive sprockets were remounted and chains tightened. While this was down we had Gary Rhoads from PolyChem inspect the tank and issue a report as to repairs and replacements needed. At the same time he came up with several suggestions as to how we could better maintain the system. He also said that without a bar rack and grit removal we will continue to have more than the usual amount of problems on our primary tanks.
5. Level sensors were installed on hypo, bisulfite, and caustic tanks and readings transferred to the SCADA system.
6. The north ash lagoon has been drained in preparation for ash removal.
7. A camera was installed on top of the silo. Wiring was done by the maintenance staff.

8. New doors were installed in the dewatering building in an effort to improve ventilation. Two new doors were also installed by the WESP's (Wet Electro Static Precipitators).
9. Caldon has been contacted to quote on thickener 2 weir repairs, catwalk repairs and dome installation.
10. Caldon is also moving forward with FBI stack insulation.
11. All employees completed respirator training and respirators were issued to them.
12. All employees completed OSHA 10 hour training class given by Ben Bullock.
13. #1 TTP (thickener transfer pump) was rebuilt.
14. RSP #1 (Raw sewage Pump) broke another flange base mount when a 4x4 block of wood was lodged in the impeller. Repair by Mackenzie cost \$1800, replacement of flange mount will be around \$5000 new shaft seal \$3400.
15. #1 purge air blower was replaced with the new style and the old one saved in reserve.
16. Hypo and caustic pumps are being installed near the respective tanks to feed each scrubber and eliminate the use of day tanks.
17. Muffin Monsters (sludge grinders) have arrived and are being replaced under our insurance exchange program.
18. Oil changes were completed on all aeration blowers.
19. Emulsion polymer blend system was installed for north J-Spin.
20. Odor counteractant spray system was activated for the summer season.
21. Over time was used to install doors and make repairs to Abel Pumps.

#### **Client / Merchant Customer Issues**

1. A letter detailing the required repairs to the primary tank drains (uncontrollable circumstance) was presented to the WPCA Board on May 20, 2010. Drain repairs due to accumulations of grit and rocks were estimated to cost approximately \$50,000.
2. Kathy Luvisi scheduled her annual plant inspection for Tuesday, May 11, 2010.
3. Naugatuck High has requested someone from Veolia to present the scholarship on Thursday, May 27, 2010 to the student(s) at a National Honor Society assembly.
4. Three students from Naugatuck High, Jim Stewart, two Planning and Zoning officials toured the facility on May 25.

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

**1. Highlights and Significant Issues:**

The plant met all NPDES effluent limits.

**2. Collection System Update:**

Veolia's Underground Asset group repaired two sections of sewers. A copy of the defect and repair is attached.

**3. Plant Performance Summary:**

Please see the attached reports for additional performance details.

<b>Plant Process Data*</b>	<b>Limit</b>	<b>Actual</b>
Total Suspended Solids (mg/l)		
Influent Avg.	-	414
Effluent Avg.	30	6
Removal Efficiency	85%	99%

<b>Plant Process Data*</b>	<b>Limit</b>	<b>Actual</b>
Carbonaceous BOD		
Influent Avg.	-	167
Effluent Avg.	30	4
Removal Efficiency	85%	98%

\* As of 7/9/10

**Plant Flow Data (as of 1/7/2010)**

<b>Oxford</b>	<b>OTR</b>	<b>Naugatuck</b>	<b>Middlebury</b>	
Flow Avg. (MGD)		3.7	0.499	*
Sludge Liquid Total (MGal)				
4.59				
Sludge Cake Total (Dry Tons)				
5.77				
Septage Total (MGal)		61,750	42,500	
143,250	958,750	* Unavailable at time of report.		

**Discharge Permit Exceedance:**

None to report.

**Safety Incidents and Odor Complaints**

	<b>Month</b>	<b>YTD</b>
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	4	9
Unconfirmed Odor Complaints	2	4

### **Compliance & Regulatory Issues**

11. Consent Order 16546 was received in early June. The Consent Order dates back to October 2009 when there were data acquisition errors. All items were corrected in the last quarter of 2009.
12. Friday, June 18, at approximately 11:30 AM, CT DEP, Phil Schnell of the Air Bureau came in for an unannounced odor inspection. No odors were observed by the inspector who toured the entire facility. In addition, the inspector drove to the intersection of RT 63 and Cherry Street as Jennifer Merrill had complained about a strong odor at that location. A sludge truck drove by and some odors were noticed however they quickly dissipated.
13. The PIQ Inspection (Pre Inspection Questionnaire) started on June 22, and June 23. The third day of record review was scheduled for July 6, 2010. The PIQ inspection has changed and is more detail oriented; as such extra time is required.
14. A letter was prepared and sent to CTDEP requesting funding for ammonia sensors/controls and portable ORP sensors before the March 31, 2010 deadline. To date, we have had no response to our request.
15. The facility is now out of the Title V Permit as the emissions are below the Title V threshold. A letter from CTDEP granting the exception was received from CTDEP.
16. There has been no response from CT DEP regarding our response for the Notice of Violation #16418 on the incinerator.
17. Odor Consent Order update: A letter was received from CTDEP approving the recommended actions in the Wright Pierce odor Study Report.
18. Mercury Consent Order 8282: No updates to report. .

### **Personnel**

2. No report

### **Health & Safety**

9. There were no recordable safety related incidents in June.
10. A PPE inventory took place at the next safety meeting June 14<sup>th</sup> and 15<sup>th</sup>. Staff was issued PPE consisting of: Chemical/Impact goggles face shields, flashlights, rain coats, and steel toe boots as required. A PPE inventory signed by each employee will be placed in their files.
11. Replacement emergency lighting units were ordered to replace the non functional units. Installation has started.
12. Replacement EXIT signs were purchased to replace the EXIT signs that are no longer serviceable.
13. Fire Extinguisher training took place June 21 and June 22. Sessions lasted approximately two hours.
14. A 5 gas (LEL, O<sub>2</sub>, H<sub>2</sub>S, CO and SO<sub>2</sub>) hazardous gas analyzer was received. Training will be provided at the next safety meeting.
15. The Respirator Plan, Emergency Plan, and SPCC Plan are under revision and almost complete. The MSDS (Material Safety Data Booklet) updates have been completed.
16. A vac truck SOP is being developed and is close to being completed.

### **Operational Information**

12. Ash hauling continues.
13. The replacement primary heat exchanger is on order with an approximate late August/September 2010 delivery date.
14. The incinerator is operating at a monthly average of 2.9DT/Hr.
15. Caldon installed most of the external duct insulation. The remainder should be installed by the end of June.
16. The primary tanks failed once again in June due to heavy accumulations of rocks/grit.
17. The new FRP cover for #2 thickener is onsite. Installation will be contracted out.
18. United Alarms has finished installation of alarms on all pump stations. High and Low well level alarms are being monitored.
19. The #4 raw sewage pump inlet valve replacement took place on June 21. Once the valve was replaced the pump could be isolated. The pump was dismantled and found to be in poor condition from rocks and grit. Replacement parts were ordered.
20. A meeting was scheduled with the staff to discuss the implementation of the new internet based time clock system.

### **Maintenance**

1. Work on disinfection system has been completed.
2. NIC Systems has completed the programming for the raw sewage pumps
3. Primary clarifiers ran well this month with the exception, of the day we changed out the valve for #4 raw sewage pump to the wet well. Drawing the wet well down so far caused a lot of rock and grit to be sent to the primary. Primary was pumped out and McVac was called to clear out the rocks and grit. Parts list for improvements to the clarifier are being composed.
4. #4 raw sewage pump valve was replaced on site by our crew.
5. Hypo and caustic pumps are being installed near the respective tanks to feed each scrubber and eliminate the use of day tanks.
6. Muffin Monsters have arrived and are being replaced.
7. East Press RST was rebuilt this month. All support spines were broken on the driven end.
8. Replaced blower motor on "B" aeration blower. The fourth blower has arrived from AEM and installation has begun. Should be online by July 1.
9. Centrifuges
  - a. The touch screens for the J-Spins are under revision. The South J-spin screens will be updated once the machine is operational again from the Rotodiff failure. Once these screens are optimized, the same changes will be made to the North J-spin.
  - b. The Viscotherm controller has been received from Centrisys and has been installed. Further checks of the control panel are underway and any other defective parts are being replaced.
  - c. Initial indications have shown the new polymer system has reduced polymer consumption by 25-30% as well as eliminating a significant safety hazard from the batch mixing process. Although the data is preliminary, testing will continue in July. Delays in testing resulted from the heavy rains and mechanical problems with the centrifuge.

- d. Vibration analysis discovered a developing problem with the J-spin centrifuges. Inspection of the unit found a worn pillow block bearing. New parts were ordered to bring the condition of the machine to an operational level and will be installed once the South J-spin is operational. Future capital planning should include looking at replacing these machines with a better quality design. These units have several weak points that will make it difficult to increase the reliability to the point the Naugatuck project requires.
  - e. The South J-spin is being reassembled this week and readied for operation. A new slide gate actuator that should be more reliable than the Auma has been installed. If this proves more reliable as expected, the North J-spin will be changed to the new version at the next failure of the actuator.
  - f. The South J-spin has some missing tiles that could not be replaced. The scroll has two different sized tiles, but the factory claims only one size was supplied. We discovered Centrisys modified the scrolls and are the source for these tiles. Spares will be ordered so that they can be replaced at the next scroll inspection.
  - g. I have revised the operational procedures for the J-Spin. These procedures will be placed on SCADA as Help Screens.
10. Condition Monitoring / Reliability
- a. The Vibration analyzer has been tested on the following equipment. ID Fan, FAB, TDU, Purge Air Blowers, Centrifuge #1, RSP's and plant water pumps. A cage fault was found on the centrifuge, inspection showed a worn pillow block housing that needs replacement. Monthly testing of the plant equipment is continuing.
11. OWAM
- a. The CMMS system is currently 50% complete. A computer/printer has been set up in the Maintenance Shop to enable the staff to enter their completed work orders. We are continuing to update the work instruction accuracy, combining work orders to reduce the paperwork load and implementing better work flows for the maintenance department. This is about 75% complete.
  - b. We have started using the purchasing function and updating the stock codes for inventory items to allow for ordering through OWAM. I expect to be about 75% complete by the end of July to be ready for the implementation of PeopleSoft. Part number labels are being placed on inventoried parts to show which items are now in OWAM and need to be tracked. All other parts are being inventoried as they are being used and as time permits.
12. Blowers
- a. Blower C has a leaking check valve that will be replaced at the next opportunity.
  - b. Blower B motor failed and was repaired.
  - c. Blower C had a failed bearing cage that was discovered through vibration analysis. Upon inspection of the machine, a cracked end plate was discovered. This blower was taken out of service and replaced with a repaired unit.

### 13. Raw Sewage Pumps

- a. RSP #1 has a broken stuffing box housing, replacement parts have been ordered. In the meantime, the housing has been welded to allow operation of the pump, but this is only a temporary solution to allow use of the pump until correct parts are on hand. Once these parts arrive, the pump will be rebuilt.
- b. RPS #3 has a bad resonance condition of the Cardan shafts and we suspect a possible misalignment issue.
- c. RSP #4 had significant wear of the shaft at the impeller. The shaft and impeller was sent out for repair, however, discrepancies with the shaft on hand and the drawing in the O&M manual were noticed that can explain the severity of the damage to the shaft. We are working on getting a new OEM shaft to measure for comparison and the pump will be reinstalled once the parts are verified.
- d. New impellers are being investigated that are more suitable for operation with rags. These impellers have a single flight instead of the double flight of our existing pumps. If the test of this impeller is successful, the other pumps will be outfitted with this type impeller as well.

### **Client / Merchant Customer Issues**

5. 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. The 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 tanks for potential energy grant upgrades. Jen Muir will prepare a letter to CL&P requesting the amount of funding CL&P will provide for a new blower installation.

### **7. Adjournment**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Rimas Balsys to **ADJOURN** the meeting at 7:40 PM.

Attest: Catherine Aresta, Secretary/rb