

**WATER POLLUTION CONTROL AUTHORITY  
REGULAR MEETING MINUTES  
FEBRUARY 17, 2011**

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

**MEMBERS:**

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

**OTHERS:**

James Stewart, Dir of Public Works  
Debbie Lichwalla, Secretary  
John Batorski, Veolia Water

**ABSENT:** Steven Cote

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 was cancelled.**
3. **Commission discussion/decision regarding Veolia and Middlebury Negotiations.**

Attorney Fitzpatrick advised Jim Stewart that Middlebury is getting very close, and that Veolia had a scheduled meeting but was delayed because of snow and will be rescheduled.

4. **Commission discussion concerning Odor NOV.  
A. Consent Odor 2048 Update – January**

Jim Stewart announced that information was sent to DEP; they responded and said they will now consider our request for extension.

5. **Acceptance of Meeting Minutes for January 20, 2010.**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** January 20, 2011 meeting minutes.

## 6. Correspondence.

A letter from Connecticut Water Company dated February 11, 2011 advising the WPCA of scheduled dates of March 15, 2011 and March 22, 2011 for draining, cleaning, maintenance and inspection of the water treatment plant clarifiers.

## 7. Veolia Water.

### A. Summary of WWTF Operations – January.

This report summarizes the activities at the Borough POTW for January 2011:

#### 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. CCTV scheduled 2/7 through 2/11/11.

#### 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.	-	97
Effluent Avg.	30	6
Removal Efficiency	85%	97%

Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	105
Effluent Avg.	30	4
Removal Efficiency	85%	96%

	Oxford	OTR	Naugatuck	Middlebury
Flow Avg. (MGD)			4.6	0.514
Sludge Liquid Total (MGal)				*
3.60				
Sludge Cake Total (Dry Tons)				
5.184				
Septage Total (MGal)			27,000	8,000
237,100				49,500

\* Not available 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	0	0
Unconfirmed Odor Complaints	0	0

### Compliance & Regulatory Issues

1. A meeting is scheduled March 1, 2011 at 1:30 PM at Atty Ned Fitzpatrick's office to continue to discuss common ground between Veolia and the Borough regarding: odor cost issues, revenue sharing, new NPDES permit requirements, facility planning, mercury control issues, and related issues. Atty Ned Fitzpatrick, Jim Binder (ARI), and Atty Hess for the Borough, and Atty's Jeff Levy (may attend if his schedule permits); Mark Zimmerman, Jon Hoisak and John Batorski will also attend.
2. There were no odor complaints during the month of January.
3. The following reports were submitted to regulatory agencies this month: The 2011 Tier II, 503 Regulation report to EPA, 2010 Semi Annual EPA Summary Report, 2010 Sludge DMR, Title V Semi Annual Monitoring Report, Title V Compliance Certification, Continuous Emissions Monitoring Semi Annual Report, Continuous Opacity Monitoring System Summary Report, Fourth Quarter CEMS Cylinder Gas and Opacity Audit Reports. The CTDEP EMIT report deadline in March 1 and it is an electronic file. We are working on the report and will ready in a week or so.

### Personnel

1. A Collections Tech was hired and is expected to start Feb 14, 2011 due to the resignation of Ted Jensen. Ted took a job with the state of CT as his 12 years military service will count toward his pension.
2. A Maintenance Mechanic was hired and is expected to start Feb 14, 2011.

### Health & Safety

1. There were no recordable safety related incidents in January.
2. The Respirator Plan is 98% complete. Annual respirator fit testing will be scheduled for March of April.

### Operational Information

1. Monthly operator training: Training on aeration blower system will be done end of January/ beginning of February
2. The starter for the north Wemco primary sludge pump failed. A new starter panel was installed at a cost of \$4,000. This is a dual control starter (normal and emergency power), which is why the replacement cost was high.
3. Liberty Insurance was on site January 18 to inspect the emergency sprinkler system
4. Connecticut Fire Equipment on site January 26 to do the annual fire

extinguisher check

5. Operations personnel have been continuing with painting and labeling throughout plant.
6. The Naugatuck High school principal will be contacted regarding scholarships for 2011 and potential tours or class room discussions relating to environmental topics.

### **Maintenance**

1. Raw sewage pump #2 had a new seal installed and is back in service. All 4 pumps continue to be shut down a number of times for deragging.
2. One set of Primary tank covers failed after the second heavy snowfall. The new covers failed due to the weight of the snow. As the covers are canvas, there is no safe way to remove all of the snow. Once the NPDES permit is received, the facilities plan will likely recommend a more permanent cover to withstand the snow loads. The cover will be repaired and installed as weather permits.
3. Aeration blower, D, will cost approximately \$10,000 to repair. Silencers for these blowers have arrived (approximately \$15,000) and installation will be scheduled.
4. Waste sludge pump #3 has been rebuilt. We are waiting on parts to rebuild the other two pumps that are in service. A replacement waste sludge pump has been ordered at a cost of \$7400 and is due in approximately one month. The pumps are in excess of 20 years old and would have been scheduled for replacement if the new NPDES permit were in place.
5. Operation of the Oracle OWAM system continues to evolve tracking all maintenance work and purchasing.
6. The sander failed this past month. We are investigating the replacement parts as opposed to purchasing a new sander. A final decision will be made as soon as all pricing/repair options have been evaluated.
7. The 400 HP ID fan drive motor was changed twice in January. The first change was scheduled as bearing monitoring revealed an impending failure of a motor bearing. Within one week, the replacement motor failed. It turned out that the motor had a bad winding, thus staff had to reinstall the original motor (it had new bearings installed). Cranes cost about \$2500 each day; the bearing repair was approximately \$5000, while the motor rewind was approximately \$14,000.
8. A replacement hot oil pump was ordered for \$4800. The original pump parts and rebuild would have cost \$3800, thus the pump was not economical to repair.
9. A bar screen was ordered (~\$3280) to capture the rags that are causing so many problems with the raw sewage pumps. Hoppers to hold the rags, a crane to lift the rags out were also ordered at an estimated cost of \$10,000. In addition, a camera will be installed to enable staff to monitor the manually cleaned bar screen.

### **Reliability Engineer Report**

1. Conducted thickness tests on the primary sludge transfer piping in the tunnel and found most of the existing line to be dangerously thin. The wall thickness should be 0.5" thick and many portions of the pipe are in the range of 0.12 to 0.15" with one section as thin as 0.09". A new bypass from the dead end tunnel to the splitter box will be installed in the near future and the old industrial transfer line used from the primary pumps to the dead end tunnel junction.
2. A local machine shop quoted rebuilding the augers for the Abel pumps that were removed during the last overhaul, OEM augers are about \$20,000 and take 20 weeks for delivery. This local shop can do the augers for \$11,000 each set. Two sets of augers were ordered.
3. Spirac has proposed a debris separator for the conveyors that will be installed on top of the cake silo. This unit will have a bar screen that will prevent debris larger than about 1.5"

- from entering the silo and causing problems with the TDU. We will install one new conveyor to test and then if it works as planned, install the second unit
4. Silencers for the two blowers that failed have arrived and will be installed the end of January. This should help reduce the noises heard on the aeration tanks and avoid noise complaints this spring and summer. Blower D is being repaired at AEM at a cost of about \$10,000.
  5. The submersible recirculation pumps in the aeration tanks continue to fail. #3A failed after a few months of operation after the last repair. This time the circuit board in the junction box failed. The replacement board costs over \$7,000 from the pump manufacturer. The cause of the failure was most likely water entry into the housing. The housing is a weak design that does not allow for a good seal of the power cable, cable exits out the side of the housing instead of the top as shown in the product literature. AEM is investigating a better way to seal this connection.
  6. RSP #1 had a seal failure after about 6 weeks of run time due to rag debris entering the sealing area and wearing out the mechanical seal face. The seal was rebuilt and the pump placed back into operation.

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

1. The CRRP section of the annual reports to the Borough has been completed and submitted.
2. The letter detailing the required repairs to the primary tank drains (uncontrollable circumstance) that was presented to the WPCA Board on May 20, 2010, and discussed at the September 2010 Board meeting, remains open. ARI recommended a cost benefit analysis be performed for the project estimated to cost approximately \$50,000. I continue to work on this request as time permits.

#### **Capital Projects**

1. Northeast Utilities has tentatively approved up to \$326,800 with a November 2011 completion date for the installation of new energy efficient aeration blowers. The offer is not final until it has been signed off by CL&P management.
2. CTDEP approved the installation of ammonia probes for a price of approximately \$28,000. Naugatuck was the first of 8 facilities selected for this system. Installation is almost complete pending the installation of the probes. The weather is the main reason for the delay. Once the probes are installed, the SCADA portion will begin.

### **8. Commission discussion/approval regarding WPCA Budget.**

Jim Stewart handed out copies of the proposed budget to review with the Commissioners for FY 2011-2012 which is to be presented to the Finance Board on March 8, 2011. Jim stated that not much has changed. Consultant fees are lower and a legal account has been added for \$25,000 so that an invoice can be sent to Middlebury for their portion of legal cost.

Discussion followed on the capital improvement program request for the Sanitary Sewer Repairs/Rehabilitation, required Reports, studies and construction for the Wastewater Treatment Plant including Zinc, Odor Monitoring, Mercury Control, Phosphorus removal, Grit removal, a Bar Screen and Facilities Report. Discussion

also followed on possible Legal settlements and construction cost reimbursements to Veolia and related to Insurance payments.

**VOTED:** Unanimously on a motion to make a few modifications to the budget by Ron Merancy. Motion passed by Pat Mallane and seconded by Catherine Aresta to **APPROVE** the proposed budget.

## **9. Adjournment**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Rimas Balsys to **ADJOURN** the meeting at 6:40 PM.

Attest: Catherine Aresta, Secretary/dl