

**WATER POLLUTION CONTROL AUTHORITY  
REGULAR MEETING MINUTES  
OCTOBER 20, 2011**

Chairman Ron Merancy called the regular meeting to order at 6:04 PM with the following in attendance:

**MEMBERS:**

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

**OTHERS:**

Jim Stewart, Public Works Director  
Debbie Lichwalla, Secretary  
John Batorski, Veolia

**VISITORS:** Attorney Edward Fitzpatrick  
Attorney Pete Hess

1. **Ron Merancy opened the meeting with the Pledge of Allegiance.**
2. **Executive Session with Borough Attorney Fitzpatrick and Borough Attorney Hess regarding property negotiations with Chemtura.**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **Enter into Executive Session** with Borough Attorney Fitzpatrick and Borough Attorney Hess at 6:04 PM., Inviting in Jim Stewart and Debbie Lichwalla.

**VOTE:**           **In Favor: 4**           **Opposed: 0**           **Abstained: 0**  
**Motion Carried: 4-0-0**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **Exit Executive Session** at 6:23 PM and continue the regular meeting agenda.

**VOTE:**           **In Favor: 4**           **Opposed: 0**           **Abstained: 0**  
**Motion Carried: 4-0-0**

**3. Acceptance of the Regular Meeting Minutes for August 18, 2011.**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** the Regular Meeting Minutes for August 18, 2011.

No Discussion.

**VOTE: In Favor: 3                      Opposed: 0                      Abstained: 1**  
**Motion Carried: 3-0-1**  
**Commissioner Ron Merancy Abstained**  
**Minutes Approved.**

**Acceptance of the Regular Meeting Minutes for September 15, 2011.**

**VOTED:** Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** the Regular Meeting Minutes of September 15, 2011

No Discussion.

**VOTE: In Favor: 3                      Opposed: 0                      Abstained: 1**  
**Motion Carried: 3-0-1**  
**Commissioner Rimas Balsys Abstained**  
**Minutes Approved.**

**4. Commission / Discussion Regarding Old Business.**

**A. Commission Discussion regarding Old Business on New Haven Road Parcel # 1198, #1202, and 1204 for Joseph DeSomma.**

Jim Stewart stated that he spoke with the Borough Attorney Fitzpatrick. Attorney Fitzpatrick made a suggestion to contact applicant/owner, and speak with them about obtaining a permanent easement. Jim Stewart stated he would contact owner and have him come in to speak with WPCA commissioners.

**B. Commission Discussion on Hoadley / Aetna Street.**

John Batorski contacted Wright-Pierce Engineering the company that maintains the system and provides assistance with improvements. The commission reviewed the drawing and spec packets their engineer developed. Veolia put it out to bid for other contractors and are currently receiving bids due on November 1, 2011. Jim Stewart is asking the commission to authorize approval once they have an approved bid.

The goal is to replace the sanitary sewer manhole and do a size upgrade on a 10" clay pipe to an 18" PVC pipe on an existing sanitary sewer.

The sanitary sewer manhole cannot accept the capacity flow of ground water when it rains. The rainfall caused sewage backups in the Hoadley, Aetna and Galpin Street areas. Veolia TV'd the pipe and it shows that there is a clean out and they will have to dig down and put a new 4 ft sanitary manhole in. In front of the sanitary sewer manhole is an abandoned stormwater pipe that has to come out. Then it will take a couple of days to reconnect to existing sewer laterals and do bypass pumping.

**5. New Business and Correspondence.**

**A. Connecticut Clean Water Fund Request to Place Project on Priority List.**

Jim Stewart commented that this is a letter submitted to DEP asking to be put on their priority list for obtaining grant funding.

**B. ARI Memorandum – Monthly Meeting Conference Call Minutes.**

No Discussion.

**C. Town Wide WPCA Sewer Account.**

Balance is 1,159,509.00. Jim Stewart commented that he will be asking permission to draw on this account to reimburse Veolia the appropriate cost for the Hoadley Street project.

**D. Water Pollution Control Authority (WPCA) Commission Vacancy.**

Jim Stewart stated he spoke with the Mayor and the Mayor said he didn't have anyone in line and asked for recommendations from the commission. Ron Merancy requested that the Mayor post the position in the Waterbury Republican Newspaper.

**6. Veolia Water - Summary of WWTF Operations – September 2011.**

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

**1. Highlights and Significant Issues:** Record high flows (from heavy rainfall) contributed to Collection System problems. Analytical results were skewed by high flows. Twenty three portable flowmeters were installed. Please refer to documents within the report.

**2. Collection System Update:**  
Please see attached Collections Report.

**3. Plant Performance Summary:**  
Please see the attached reports and graphs for additional performance details.

Plant Process Data	Limit	Actual
Total Suspended Solids (mg/l)		
Influent Avg.	-	112
Effluent Avg.	30	5
Removal Efficiency	85%	96%

Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	55
Effluent Avg.	30	4
Removal Efficiency	85%	93%

	Naugatuck	Middlebury	Oxford
<b>OTR</b>			
August Flow Avg. (MGD)	8.1	1.035	0.108
Sludge Liquid Total (MGal)			
3.57			
Sludge Cake Total (Dry Tons)			
5.45			
Septage Total (MGal)	59,500	29,250	159,500
827,850			
Discharge Permit Exceedance:	None		

### Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	0	23
Unconfirmed Odor Complaints	0	0

#### 1) Compliance & Regulatory Issues

- a) The annual stack test and RATA took place Sept 27, 2011. The CEM CO (carbon monoxide) analyzer circuit board failed just before the RATA (Relative Accuracy Test Audit) test. CK Environmental furnished a loaner analyzer for the RATA test. The original CO analyzer will be sent out for repairs (~4 weeks). Once the unit has been returned, CTDEEP stated they want another RATA test on the repaired analyzer.
- b) A meeting took place on Sept 20, 2011 at 2 PM in Atty Ned Fitzpatrick's office to continue discussing common ground between Veolia and the Borough regarding: odor cost issues, insurance payments, revenue sharing, new NPDES permit requirements, facility planning, mercury control issues, and plant upgrade.
- c) There were no Odor Complaints during Sept. 2011.
- d) Roland Denny from CTDEEP called to state the proposed NPDES Permit should arrive by the end of the year (2011). The permit will have an effluent aluminum limit and will also mandate E.coli testing as opposed to fecal coliform testing. Coliforms are bacteria that live in the intestines of warm-blooded animals (humans, pets, farm animals, and wildlife). Fecal coliform bacteria are a kind of coliform associated with human or animal wastes. Escherichia coli (E. coli) are part of the group of fecal coliforms. The permit will require a facilities plan which typically cost \$250,000 to \$500,000 depending on

the scope of study. A facilities plan can take up to one year to complete. The facilities plan typically reviews current wastewater plant operations, proposed future permit limits, population growth (sewage flow), sewer areas, collection system and what plant upgrades are required for the next 20 years to achieve the permit limits. The engineer is hired based upon a quality based selection procedure. Typically, a scope of services for the facility plan is developed, advertised, and the bidders are interviewed and ranked to determine who should be awarded the bid.

## **2) Personnel**

- a) A licensed electrician was hired.
- b) An employee was terminated per the terms of a Last Chance Agreement.
- c) A Collections employee resigned effective Sept 16 to accept a position at another WWTP. A Veolia employee with a CDL transferred from the Danbury and will fill that vacated position.

## **3) Health & Safety**

- a) There were no recordable safety related incidents in September.

## **4) Operational Information**

- a) On Tuesday September 6<sup>th</sup> TDU (Thermal Drying Unit) repairs began and the incinerator was operated on bypass (no thermal dryer). The non drive end bearing, packing gland, and packing gland sleeve were replaced (approximate cost \$10,000). Parts are on order to replace the packing gland on the drive end. Those parts are on order and cost approximately \$85,000. The sleeves wear from the grit in the sludge.
- b) On Tuesday September 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup>, the facility experienced heavy rains. The plant operated well but the collections system was overwhelmed. Plant flows peaked at 21.2 MG and the main plant gate was throttled. The raw sewage was bypassed through manhole 13-92. All bypass reports were filed with CTDEEP for the plant and collection system bypasses. As expected, the uncontrolled high flows caused nitrogen levels to be elevated due to the high flow. The influent CBOD was low as expected due to dilution from the rainfall.
- c) On Sept 8, at approximately 2 PM, Jim Stewart requested emergency assistance as a direct result of the heavy rainfall. The rainfall caused sewage backups in the Hoadley, Galpin and Aetna Street areas. George Elaro from UGAM responded with 3 hours and identified major issues with the Hoadley street sewer. The sewer is only 10 inch diameter and that neighborhood experiences excessive I&I. In addition, he located storm sewers connected to sanitary sewers in that area. As a result of the sewer backups in that area, Jim Stewart requested pricing to replace the 300 feet of 10 inch sewer with the UGAM recommendation of an 18 inch diameter sewer. The first bid was approximately \$142,000. Wright Pierce will prepare a bid spec for that sewer replacement job for \$8,000. The project will be advertised as soon as the bid spec is completed (estimated at 2 weeks or less).
- d) A PO was issued to Caldon for \$31,000 to completely insulate the incinerator exhaust duct and hot oil heat exchangers. The 1 inch of insulation will keep the steelwork above 240 F.

- e) Work is proceeding on #1 sludge thickener repairs. The original repair cost approximately \$20,000. Since the rake is in operable condition, additional repairs are required.
- f) A PO was issued for \$24,700 to construct a concrete pad to hold the rebuilt primary heat exchanger that is due to arrive in late October. Wright Pierce prepared to spec for the concrete pad. The heat exchanger with the lower plenum weighs approximately 45,000 lbs and stands just approximately 45 feet tall. The foundation must support that equipment under high wind loads.
- g) CTDEEP requested copies of the cancelled checks for the ammonia probe installation. Thus far, that was their 5<sup>th</sup> request for information. They previously were furnished copies of the quotations for the equipment, installation bids, photos of the installation, copies of the purchase orders, copies of their original approval letters, copies of the invoices and packing slips. The amount approved and due to Veolia is approximately \$21,500.
- h) Wright Pierce was issued a PO for \$5,000 to assist with the design of a recycle pump. Currently the incinerator uses about 1200 gpm of plant water. The conceptual plan was to recycle over 50% of that water. The proposed recycle pump will reduce the flow by approximately 600 gpm to the wet well, and reduce the flow from the plant water pumps by the same amount. Electrical savings will result from this project. In addition, the flow through the facility will be reduced by the same amount.
- i) The south lagoon is just about empty and we will be switching lagoons in October.
- j) Emergency power training session was conducted with the three newest employees. A power failure was simulated by opening the main breaker to the plant.

## 5) Collections

- a) A replacement inverter for the vac truck was purchased and installed. The inverter allows the crew to operate lights, electric jack hammers and other small hand tools.
- b) One of manholes that have been repaired with a special coating in the Moonlight Circle area has coating crumbling off. The contractor has been notified and will be here in two weeks to fix the problem.
- c) UGAM has placed 23 flow meters in manholes to conduct a flow study. The portable meters will data log the flow every 15 minutes. The data will be downloaded weekly for 4 weeks. The first 4 weeks (basically the month of October 2011) of the study (\$28,750) is performed under part of Veolia's collection contract. Flow Metering weekly extension price for the 23 units is \$7,195.00. The WPCA may desire to extend the flow monitoring depending upon the weather during the testing period. The goal is to evaluate the flow data from the flowmeters and prioritize repairs.
- d) Additional monitoring can be performed.
- e) UGAM has also started doing point repairs in several sewer lines.
- f) On Monday September 12<sup>th</sup> smoke testing was conducted by the UGAM group in the Hoadley/Aetna Streets area. Infiltration was discovered. A full report with recommendations is pending.
- g) Root treatment for the collection system is scheduled during the month of Oct 2011.

## **6) Maintenance**

- a) The PM program is being utilized each day. Parts inventories, work order tracking, parts ordering, work scheduling are now performed using the program. Work orders are being updated to reflect equipment ID's, parts used and the amount of time to complete the task.
- b) Quite a few problems with Raw Sewage Pumps this month. A total of four shaft seals were replaced on 2 different pumps and bearings were replaced on pump #2.
- c) Parts have arrived and repairs will be scheduled for several of the piston sludge pumps that are leaking in the basement. One pump was repaired this month and others are will be scheduled.
- d) There were three Spirac failures this month all repaired in house. Two of them were broken screws or gearbox adapters. The third was a gearbox replacement. Many replacement parts for the Spirac conveyors have arrived. More still have to be ordered.
- e) The crew has replaced one of the ash lines outdoors with CPVC pipe in place of the Urethane. The other line was replaced with sections of urethane in inventory thus both of the ash lines are now completely rebuilt.
- f) The staff is installing 6 inch, schedule 80, PVC pipe for the sections of the primary sludge line that has worn out.

## **7) Capital Projects**

- a) Jenn Muir is evaluating the revised airflow requirements for the aeration system. As the aeration system is using less air, the original proposed turbo blowers would not have the turndown to efficiently operate at the reduced demands.

**Borough of Naugatuck Collections System Report**

Sep-11

Calls for Service:

This Month  
0

Year to Date  
6

1		
2		

Calls Caused By Collection System:

Reason

1		
2		
3		
4		

Line Flushing (feet)

This Month

Year to Date  
38110 Feet

	street	From/to	13290	Feet
1	9-6-11 irving st		590	
2	9-8-11 hoadley st		200	
3	9-8-11 oak ter housing lateral		225	
4	9-8-11 aetna st		420	
5	9-8-11 deering to lynn cir		175	
6	9-20-11 woodcrest cir		240	
7	9-20-11 woodland st		300	
8	9-20-11 phoenix ave		400	
9	9-21-11 southview st		300	
10	9-21-11 allerton rd		190	
11	9-21-11 david st		800	
12	9-21-11 thistle down ln.		165	
13	9-21-11 thistle down ln.		200	
14	9-21-11 morning dove rd		500	
15	9-21-11 morning dove rd		375	
16	9-22-11 high st		620	
17	9-22-11 n.main st		240	
18	9-22-11 brennan st		330	
19	9-22-11 sweeney st		190	
20	9-23-11 bob white cir		330	
21	9-23-11 thistle down ln.		320	
22	9-23-11 glendale court		325	
23	9-23-11 general patton dr		225	
24	9-26-11 christy ln.		200	
25	9-26-11 michalle ln		250	
26	9-26-11 marsh hill rd		80	
27	9-26-11 pound view dr.		650	
28	9-27-11 little river dr		400	
29	9-27-11 colonial ln.		250	
30	9-27-11 hackett st		735	
31	9-28-11 bridge st		900	
32	9-28-11 moonlight cir.		770	
33	9-28-11 moonlight cir. Easment		275	
34	9-28-11 morningmist rd		325	
35	9-29-11 bridle trail rd		795	
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				

		This Month	Year to Date	Cost
	Line TV (feet)	185	185	
1	9-13-11 35 fairchild st	100		
2	9-22-11 alderson funeral home	85		
	Root Treatment (chemical or simply use of root cu	260	260	
1	9-6-11 irving st	260		
2				

Pump Station Inspections/Cleaning:				
1	9-8-11 all 5 stations checked			
2	9-16-11 all 5 stations checked and Platts Mill wet well vacced out			
3	9-23-11 all 5 stations checked			
4	9-29-11 all 5 stations checked			
5	9-14-11 vac inwoodpump ststion			
6	9-19-11 Hop Brook wet well vacced out			
7	9-20-11 Maple and May + Horton Hill wet wells vacced out			
Vac Truck Information				
Days Out In Use				
Contract		This Month	Remaining	YTD
150		15	117	33

Fuel Information		Fuel Cost	Fuel Used	Total Year to Date Gallons	
9/12/2011		\$223.84	55.1 Gal	604.1	Gal
9/21/2011		\$237.92	58.6 Gal		
9/27/2011		\$204.59	50.4 Gal		
	<b>This Months Total</b>	<b>\$666.35</b>	<b>164.2 Gallons</b>		<b>Total Year to Fuel Date Cost \$2,478.92</b>

vac truck		Mileage	Engine Hours	YTD
	Month Start	140008	Month Start	3089.3
	Month End	141290.8	Month End	3156.2
	<b>Total</b>	<b>1282.8</b>	<b>Total</b>	<b>66.9</b>
				<b>217.3</b>

vac Truck Repairs: Rear Brake Can replaced. New inverter purchased and installed				
Utility Truck		Fuel Cost	Fuel Used	Total Year to Date
Fuel Information		\$0.00	0 Gal	Year Date Gallons
9/9/2011		\$116.08	28.31 Gal	126.29
9/26/2011		\$79.90	19.68 Gal	
	<b>This Months Total</b>	<b>\$195.98</b>	<b>47.99 Gallons</b>	<b>Year to Date Fuel Cost \$520.48</b>

Purchase Orders, amount, and what they were for:

- Highlights**
- 9/1/2011 maple and may pump station rehab
  - 9/6/2011 check inwood station loss of power, restored
  - 9/7/2011 work with ugam, point repair
  - 9/8/2011 help town with storm sewer per bob roland on deering la.
  - 9/9/2011 camera 95ft for jim steward on milville ave, storm sewer
  - 9/12/2011 smoke testing, die testing, used vac truck for testing dry storm sewers
  - 9/15/2011 check over all manholes for flow meter install
  - 9/19/2011 vac skimmings
  - 9/19/2011 work with ugam, point repair
  - 9/19/2011 vac grease tank at hop brook

## **8. Adjournment**

**VOTED:** Unanimously on a motion by Rimas Balsys and seconded by Pat Mallane to **ADJOURN** the meeting at 7:08 P.M.

Attest: Catherine Aresta, Secretary/dl