

**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING MINUTES
OCTOBER 18, 2012**

Chairman Ron Merancy called the regular meeting to order at 6:00 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, WPCA Secretary
John Batorski, Veolia

VISITORS:

John Braccio, Wright-Pierce – P.E., Principal in Charge
Barry Parfitt, Wright-Pierce – P.E., Lead Project Engineer
Mariusz Jedrychowski, Wright-Pierce – P.E., Project Manager
Doug Hankins, Wright-Pierce – P.E., Lead Project Engineer
Bill Hardy, Kleinfelder - Vice President / Project Manager
Mark Holtan, TRC Environmental Corp, Windsor,
Chemical Engineer Consultant - Incinerator-Odor Control Specialist
Dave Michaelson, Kleinfelder - Treatment Plant Specialist
George Hamilton, Kleinfelder - Inspection System Specialist

1. **Ron Merancy opened the meeting with the Pledge of Allegiance.**
2. **New Business and Correspondence.**
 - A. **Commission Discussion / Decision Regarding the Facility Plan Consultant Interview Presentations between Wright-Pierce and Kleinfelder.**

VOTED: Unanimously on a **3 to 1 VOTE** for the Board to **SELECT**
“Kleinfelder” as the Waste Water Treatment Facility Consultants.

VOTE: **In Favor: 3**
 Opposed: 1
 Abstained: 0
Motion Carried: 3-1-0
Authorization to Select “Kleinfelder” as the Waste Water Treatment Facility Consultants.

3. **Old Business.**

A. **Commission Discussion Regarding / Approval Regarding Chemtura Invoices for the WWTF Access Road Project No. 12PNAU003.**

The Commissioners Decision is to pay the invoices as recommended. To reduce the amount minus the tax. The Borough of Naugatuck and Chemtura will split the cost of the gate.

VOTED: Unanimously on a motion by Rimas Balsys and seconded by Catherine Aresta for the Board to **APPROVE the Invoices as recommended in the amount of \$137,495.45 on road work for the New Access Road.**

VOTE: **In Favor: 4 Opposed: 0 Abstained: 0**
Motion Carried: 4-0-0
Invoices Approved as recommended in the amount of \$137,495.45 for the New Access Road.

4. **Acceptance of Regular Meeting Minutes for September 20, 2012.**

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** the Regular Meeting Minutes for September 20, 2012.

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

5-A. **This report summarizes the activities at the Borough POTW for September 2012:**

This report summarizes the activities at the Borough POTW for [September 2012](#):

1. **Highlights and Significant Issues:** Please refer to 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.	-	333
Effluent Avg.	30	7
Removal Efficiency	85%	98%

Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	170
Effluent Avg.	30	4
Removal Efficiency	85%	98%

	Naugatuck	Middlebury	Oxford
OTR			
September Flow Avg. (MGD)	3.8	0.418	0.077
Sludge Liquid Total (MGal)			N/A
3.518			
Sludge Cake Total (Wet Tons)			
5705.8			
Septage Total (MGal)	43,750	41,500	141,250
606,075			
Discharge Permit Exceedance: None			

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	4	36
Unconfirmed Odor Complaints	0	0

1. Compliance & Regulatory Issues

- a. There were 4 recorded Odor Complaints for September 2012. Two complaints this month were from an area approximately 3 miles from the plant. Preliminary investigation revealed that odor is likely coming from the Oxford sewer that runs through a walking trail. Vents are located along that trail and were confirmed to have odors emanating from them. There is more investigation to determine the actual cause of the odor. The Sept 16 odor complaint from the Meadowbrook area did not correlate with wind direction. A complaint on Sept 25 from Meadowbrook was quickly investigated. The call came in about 2:00 PM, within 30 minutes, I was in the neighborhood. I could not identify any odor in that neighborhood at that time. Lou Santos, CTDEEP odor inspector was onsite twice in September. He also performed some night odor surveillance in the area and did not observe any odors. Each site visit was approximately 5 hours in length.
- b. The annual stack test took place on Sept 25, 2012. The annual emission testing included additional testing for several days (to determine compliance with the new March 2016 emission standards) of the WESP inlet and outlet mainly for particulate capture efficiencies. During the testing, on Sept. 25, Lou Santos, CTDEEP Odor Inspector was onsite to investigate odor complaints from the Meadow Brook neighborhood. He

observed some minor leaks from the incinerator exhaust ductwork leading to/from the WESP. Some of the leaks were immediately sealed that day with the remaining leaks repaired the following morning (a man lift was used).

2. Personnel

a. The Maintenance Planner (Database Analyst) position was filled.

3. Health & Safety

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

4. Operational Information

a. The incinerator cake sludge feed line burst Friday, Sept. 28 at approximately 2:30 PM during the last run of stack testing. Staff had just resumed operations after recovering from a 17 hour delay due to a failure of the fuel oil pump device net communications (which occurred after the third day of testing was completed). The line was back in service at 2 AM or about 12 hours later. There were some sludge diversions during that period.

b. The liquid sludge unloading area received new concrete and blacktop (~\$13k). The original unloading area had deteriorated over the years.

c. Kathy Luvisi was on site Sept 24 to observe the annual stack test. We discussed the access road condition (dust, potholes, wash boarding and snow plowing responsibilities), the availability of a used odor scrubbing system from Chemtura that is very similar to the design specs by Wright Pierce and finally the recent flooding of the plant during a rain event in August.

d. The 115 HP raw sewage pump arrived Sept. 20. We will have Caldon install the pump.

e. Secondary tank #3 broke as a result of a skimming arm falling in the tank. The chain in the tank was brittle and had to be replaced. Actual return rail supports, bearings, shear pin hubs etc are nearing the end of their useful life. Chain tension adjustment is inoperable on all tanks. Staff simply removes links to adjust tension. The collector was placed in service Sept 24, 2012.

f. A meeting was scheduled on September 10 with Wright Pierce and Kris Vernenkar to determine the engineering cost to evaluate the incinerator dome replacement. A follow up meeting took place on Sept 24. The proposal will evaluate three domes: an in kind replacement, a steel dome from a different manufacturer and finally a refractory dome. Pricing for the study was not available at the time of this report.

5. Collections

a. Odors emanating from vents along a trail in Oxford were identified as a source of odors near the abandoned meter station near the Gunntown Road. The crew walked the area and did observe odors near the vent pipes.

b. Excessive grease buildup at the Hop Brook pump station was a problem this past month. The grease trap is maintained by the Collections crew however a good bit of grease is not captured by the trap. As a result, both pumps had to be removed and replaced, the lines had to be removed and cleaned. Several days (including overtime) were spent on that pump station as a result of the grease problem.

6. Maintenance

- a. Staff is working on the communications issues with the fuel oil pump which use device net to communicate with RS Logics.
- b. The original #3 sludge storage tank mixer drive failed (last year the #4 sludge storage tank mixer drive failed). The new grinder pump installation has started.
- c. The WESP has had random failures which were under investigation. Among the items repaired were: a circuit board was replaced, replacement spray bar was installed, and two cracked insulators were replaced. The technician also adjusted all parameters.
- d. The North Moyno feed pump for the centrifuge was rebuilt.
- e. The #4 secondary tank cross collector failed. Repairs will be scheduled.
- f. Several days were spent on the #3 secondary tank repairing/replacing the collector flights. The original shear pin hubs have become problematic. Replacements are under evaluation.
- g. Aeration tank 5 required considerable work to repair a Dresser coupling that separated.
- h. On Sept. 28 two sections of the sludge feed piping were replaced.
- i. Approximately 300 gallons of thermal fluid was reprocessed and returned to inventory for use.
- j. The lighting by the liquid sludge feed pumps had to be replaced as the wired embedded in the conduits failed.
- k. Several Spirac conveyors broke this month. Approximately \$22,000 of spare parts was ordered.

7. Capital Projects

- a. Jackie Miller (Joseph Miller Consultants) will be on site October 22, 23 and 24, 2012. The new hot oil cooler weighs 8500 lbs. Wright Pierce will be used to assist with structural design. The hot oil cooler arrived Sept 26, 2012.

Borough of Naugatuck Collections System Report

Sep-12

Calls for Service: **This Month**
1

Year to Date
2

1	New Street
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Calls Caused By Collection System:

1	New Street - Collapsed pipe in line	1
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Line Flushing (feet)

	Street		This Month 4115	Feet	Year to Date 37800	Feet
1	New Street		200			
2	Locust Street	6 Month List	450			
3			260			
4	Locust Street Easment		200			
5	Woodland Street	6 Month List	340			
6			320			
7	Phenox Ave	6 Month List	350			
8	Woodcrest Circle	6 Month List	240			
9	Fairview Ave	6 Month List	350			
10	Cherry Street	6 Month List	225			
11	Irving Street		320			
12	South Circle		160			
13	North Circle		200			
14	Brookside Ave		350			
15			150			

Line TV (feet)		This Month	Year to Date	Cost
1	New Street	150	150	None
Root Treatment (chemical or root cutter)		This Month	Year to Date	
1	None this month	0	0	

Pump Station Inspections/Cleaning:

1	9/7/2012 Checked all 5 stations
2	9/12/2012 Checked all 5 stations
3	9/17/2012 Checked all 5 stations
4	09/28/2012 Checked all 5 stations
5	09/04/2012 Vacced and cleaned Maple & May Pump Station.

Vac Truck Information

Days Out in Use

Contract

150

This Month

6

Remaining

108

YTD

42

Fuel Information

Fuel Cost	Fuel Used		Total Year to Date
\$195.00	46.4	Gal	Total Year to Date Gallons
\$114.00	26.2	Gal	394.4 Gal
		Gal	Total Year to Fuel Date Cost
This Months Total	\$309.00	72.6	Gallons \$1,638.00

Mileage		Engine Hours		YTD
Month Start	155536	Month Start	3905	
Month End	156335	Month End	3950	
Total	799	Total	45	152.5

Vac Truck Repairs:

Utility Truck

Fuel Information

Fuel Cost	Fuel Used		Total Year to Date
\$121.00	28.14	Gal	Year Date Gallons
\$125.00	29.08	Gal	57.22
		Gal	Year to Date Fuel Cost
This Months Total	246.00	57.22	Gallons \$246.00

Purchase Orders, amount, and what they were for:

Highlights

- 9/4/2012 Primary Clarifier Skimming pumped down. Did bypass with Vac Truck for G&L to replace pipe on New Street.
- 9/5/2012 Came up with a plan to bypass for when Weston & Sampson does repair work at Inwood Pump Station.
- 9/6/2012 Worked with Operations cleaning difusers in aeration tanks at plant.
- 9/7/2012 Looked for lids around Guntown road from Middlebury, odor appears coming from Qxford sewer line on trail.
- 9/10/2012 Primary Clarifier Skimming pumped down. Marked out Middlebury and Oxford flows on Guntown Road.
- 9/11/2012 Went to Bahr Sales to fix parts order. Removed "gonzo" tube from Vac Truck. Pulled pump at Inwood Pump Station for Weston & Sampson.
- 9/12/2012 Dropped off Vac Truck for repairs.
- 9/17/2012 Found Prospect Street Siphon manhole cover and ring gone by stream.
- 9/18/2012 G&L replaced missing manhole cover and ring on Prospect Street Siphon. Primary Clarifier Skimming pumped down. Helped Operations pull up gates and change over lagoon.
- 9/19/2012 Cleaned Incinerator stack. Cleaned and used camera to inspect. Installed new "gonzo" tube on Vac Truck.
- 9/20/2012 Pulled pump at Horton Hill pump station because it was tripping out.
- 9/21/2012 Weston & Sampson at Inwood pump station so they could start replacing check valves. Took electrician to station for electrical issue. Started top paint control box at Hop Brook pump station.
- 9/22/2012 High velocity cleaning of WESP lines. Repaired Vac Truck hose.
- 9/25/2012 Reaired tool/side box on Utility Truck.
- 9/29/2012 Call in to Hop Brook pump station for High Level alarm.

5-B. Naugatuck CY10 Annual Report.

John Batorski commented that in CY10 the facility treated 2.28 billion gallons of wastewater (300 million gallons more than last year's 1.98 billion gallons), 10.12 million gallons of septage, accepted 40.2 million gallons of liquid sludge and 70,636 wet tons of cake sludge. Combined from all of these sources, the facility incinerated a total of 25,829 dry tons of biosolids.

6. Adjournment.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADJOURN** the meeting at 8:07 P.M.

Attest: Catherine Aresta, Secretary/dl