

**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING MINUTES
AUGUST 18, 2011**

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

MEMBERS:

Rimas Balsys, Vice Chairman
Catherine Aresta, Secretary
Pat Mallane

OTHERS:

Jim Stewart, Public Works Director
Debbie Lichwalla, Secretary
Chris Makuch, VeoliaWater

ABSENT:

Ronald Merancy, Chairman
Steve Cote

VISITORS:

John Kenworthy, Surveyor
Joseph DeSomma

1. **Rimas Balsys opened the meeting with the Pledge of Allegiance.**
2. **Special Meeting Minutes for June 22, 2011 will be added to the regular meeting agenda for September 15, 2011.**

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **move the acceptance of the Special Meeting Minutes of June 22, 2011 to the Regular Meeting on September 15, 2011.**

3. **Commission/Discussion Regarding Correspondence and New Business.**
 - A. Wright-Pierce Preliminary Design Proposal, May 31, 2011 Letter Response to Borough questions.

No Comments or Discussion.
 - B. ARI Memorandum dated June 13, 2011 – Monthly Conference Call Meeting Minutes to Discuss Naugatuck Issues.

No Comments or Discussion.
 - C. ARI Memorandum dated August 5, 2011-Monthly Conference Call Meeting Minutes to Discuss Naugatuck Issues.

No Comments or Discussion.
 - D. ARI Memorandum dated August 3, 2011-Documentation of Veolia Public Participation Plan.

Jim Stewart reviewed the items being completed and the Commission agreed that the Public Participation Plan was satisfactory.

- E. ARI Memorandum dated August 3, 2011-ARI Review of Capital Repair and Replacement Plan (CRRP) Update prepared by VWNA.

Jim Stewart reviewed the memo, ARI believes that VWNA has met there contract requirements.

- F. ARI Preliminary Analysis of Mercury Control Options for Naugatuck Sewage Sludge Incinerator letter dated June 17, 2011.

Jim Stewart stated it's been updated to the new mac standards. A million an a half dollars to install. Five to Six Hundred Thousand Dollars each year to eliminate mercury. This amount is being submitted to the clean water fund.

- G. AQA Preliminary Analysis of Mercury Control Options for Naugatuck Sewage Sludge Incinerator, June 2011.

No Comments or Discussion.

- H. ARI Operations and Maintenance Assessment CY 8 - 7/1/09 – 6/30/10.

Information was reviewed in their last presentation. A new report and presentation will be at later date.

- I. Incineration Facilities Lease Agreement / Operations and Maintenance Requirements Appendix 14.

No Comments or Discussion.

- J. WWTP Service Contract / Operation and Maintenance Requirements Appendix 14.

No Comments or Discussion.

- K. Maintenance Activities Performed during CY 8 – Attachment C.

No Comments or Discussion.

- L. Veolia Water dated August 16, 2011 regarding Proposal to Perform Naugatuck WWTP Phosphorus Removal Trial.

**Pilot Testing that is required for the final design.
One Hundred Thousand Dollars being submitted to the clean water fund.**

- M. Veolia - July Report regarding Stack Testing.

**Increase in Emissions. Still haven't received permits, and final designs haven't been finalized. Wait and push back the testing until next year.
Fifty Nine Thousand Dollars being submitted to the clean water fund.**

- N. Commission / Discussion / Decision regarding Grant Planning Advertising.
Approval to find consultant and get an RFQ.

VOTED: Unanimously on a motion by Rimas Balsys and seconded by Catherine Aresta **to accept the approval for the Planning Grant Advertising for a consultant.**

- O. Commission / Discussion regarding Steve Cote Resignation.

Steve Contacted Jim Stewart regarding resignation from the Board. Once the letter of resignation is received, mayor can assign a new member.

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

John Kenworthy stated that Mr. DeSomma demolished his plumbing business and two old houses. He would like to tie into the sewers and develop or sell property for commercial real estate. He stated there is no sewer in front of the property but there is on the adjacent property and it looks like they can get into the sewer. **The question: Is it public sewer and can he tie into it?**

John Kenworthy stated it comes up through the Plaza where Giuseppe Pizza, Subway, the Chinese Restaurant and Doctor offices and out to New Haven Road. Then it was extended when Shakers built their service center. The new house south of Shakers is also tied into the sewer. He said he found the manhole. Years ago the sewer crossed New Haven Road and Dunkin Dounts tied into it. John Kenworthy stated he did the layouts for LaFlamme when the old drive-in was converted into the Drive in Range. They did a sewer connection into that manhole.

Jim Stewart commented that the Board had this discussion with Dean Rotatori when he wanted to connect to the sewer. Dean Rotatori was given permission to connect. Jim Stewart handed out correspondence regarding LaFlamme's sewer and stated that they represent that the sewer can be used for future expansion, it was designed by the town standard and was expanded by LaFlamme over the years. They did not get an easement on LaFlamme's property when they put it in. John Kenworthy isn't sure and wasn't able to find out if Rotatori paid the fee \$5,000.00 to LaFlamme. It is Jim Stewart's opinion that it is a town sewer and believes we have serviced and maintained it. Rimas Balsys stated if the town has maintained it in the past, then he would believe it is a city sewer. Jim Stewart said he can refer it to the town attorney to review the history and get an opinion on who owns what for final approval.

5. Veolia Water - Summary of WWTF Operations – June 2011.

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

1. Highlights and Significant Issues: Please refer to documents within the report.
2. Collection System Update: A report was made regarding a potential clogged sewer at the Dog Pound. Investigation found that the sewer was fine however the lateral was clogged with "dog toys and bones". As a result of trying to remove the debris, the sewer jetting nozzle was lodged

inside the sewer. The line had to be excavated to remove the nozzle. A picture is attached for reference which indicates what was removed from the sewer lateral.

Please see attached Collections Report for additional information.

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. | - | 74 |
| Effluent Avg. | 30 | 4 |
| Removal Efficiency | 85% | 95% |

| Plant Process Data* | Limit | Actual |
|---------------------|-------|--------|
| Carbonaceous BOD | | |
| Influent Avg. | - | 159 |
| Effluent Avg. | 30 | 6 |
| Removal Efficiency | 85% | 96% |

| | Oxford | OTR | Naugatuck | Middlebury | | |
|------------------------------|--------|-----|-----------|------------|---------|---------|
| June Flow Avg. (MGD) | | | 5.5 | 0.723 | 0.090 | |
| Sludge Liquid Total (MGal) | | | | | | |
| 4.03 | | | | | | |
| Sludge Cake Total (Dry Tons) | | | | | | |
| 6.51 | | | | | | |
| May Septage Total (MGal)* | | | 58,000 | 31,000 | 154,250 | 786,250 |
| June Septage Total (MGal) | | | 58,250 | 43,750 | 168,000 | 849,750 |

* Corrected

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

| | Month | YTD |
|-----------------------------|-------|-----|
| Recordable Accidents | 0 | 0 |
| Lost Time Accidents | 0 | 0 |
| Odor Complaints | 3 | 11 |
| Unconfirmed Odor Complaints | 0 | 0 |

1. Compliance & Regulatory Issues

- a. CK Environmental (the vendor for the annual emission tests) has been requested to provide optional pricing for 2011 annual stack tests. HCL, PCDD/PCDF, NO_x, PM and SO₂ are some of the parameters that new regulations will mandate increased levels of removal. Added to that list is a second sample train to test the same pollutants for the inlet to the WESP with submicron particle

size distribution (inlet/outlet) for each test. A second test run for identical parameters is also proposed with the venturi operated at 15 inches of differential pressure. The purpose of the testing is to provide a baseline of analytical data we believe would be beneficial for future emission system design for the new emission standards.

- b. A meeting is scheduled for July 21, 2011 at 11 AM in Atty Ned Fitzpatrick's office to discuss 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 3 odor complaints during the month of June (June 19th and June 29). On June 2 and June 3, CTDEP performed unannounced odor inspections in response to odor complaints that occurred in May 2011. The inspectors, Lou Santos and Phil Schnell each spent approximately 2 hours on site and toured the entire facility. Monday June 20th, based on an odor complaint from June 19th for 31 Meadowbrook Place, Phil Schnell was on site for approximately 2 ½ hours. No off sight nuisance odors were detected. There were minor odors originating from the hot oil room and septic areas that were observed. We will make every attempt to place as much septic as possible in the sludge storage tanks. On June 29 an email was received for odors on exit 25 and the Meadowbrook Place area.

2. Personnel

- a. A Grade 1 Wastewater Operator was hired to replace an operator who resigned to take a position at the Beacon Falls Plant. He started July 5, 2011.
- b. The Lab Tech has stated she will retire by August 31, 2011. Another Operator with a Grade 1 certificate was hired to replace the internal candidate who is expected to take the Lab/Operator position. That person is expected to start the week of July 18, 2011.
- c. Samantha Macelis started on June 13 as the Naugatuck WPCF summer intern. Various tasks relating to Hach Wims, spreadsheets, locating collection system records, and related work will be assigned to her.
- d. We are interviewing candidates for the Instrument Tech position.

3. Health & Safety

- a. There were no recordable safety related incidents in June.

4. Operational Information

- a. Wright Pierce is working a design for a pad to support the repaired heat exchanger that is due to arrive in late August or September of this year. They expect to complete the design by mid July and a local contractor would be used to prepare the foundation.
- b. Chris Makuch and John Batorski participated in the Earth Day/Duck Race events at Naugatuck on June 5 from 11 AM to 5 PM. Veolia was a \$1000 sponsor for the event.
- c. John Batorski was invited and attended the Naugatuck Rotary Club meeting June 15th. The Rotary Club would like to have Veolia as a member especially since they are promoting clean water this year.
- d. Annual ash hauling began in late May 2011.

- e. Confined Space training with ECS environmental consulting has been scheduled for Monday August 15th.
- f. The aeration system flow distribution will be investigated. The recent installation of the ammonia probes indicates the northern train does not receive the same flow as the south train. The flow split (primary effluent and RAS, Return Activated Sludge) will be investigated to determine if the influent can be better mixed.
- g. The Bio Win (computer model) portion phosphorous removal package is still a work in progress. The ferric chloride and sodium hydroxide feed rates have been calculated. Once the computer model is complete, the final report can be assembled.

5. Collections

- 1) Pump station pump wells, hour meters spare pumps etc were inventoried. Pictures were taken of each station. The volumes of the pump station wells were calculated. The hour meter readings will be used to calculate the amount of sewage pumped.

6. Maintenance

- a. #4 Raw Sewage Pumps pump inlet valve was reinstalled and the pump is back in service.
- b. Primary tank #1 all chains were broken again (by foreign debris due to no headworks) but, have been repaired and the railings are fixed. We are still working at reattaching the tarps and have modified the installation to avoid the snow piling up and ruining the tank in the future.
- c. Aeration blower D is being rebuilt (~\$17,000). Supports for the outlet silencers on A & B are being modified in hopes that more life will be gained from these units.
- d. Waste sludge pump #4 has been replaced with a new pump and work on #2 has been started. The original pumps had Reeves variable speed drives which were not economical to repair.
- e. Parts have arrived and repairs will be scheduled for several of our piston sludge pumps that are leaking in the basement. One pump was repaired this month and others are will be scheduled.
- f. There were three Spirac failures this month. All of them were broken screws or gearbox adapters. Many replacement parts (~\$77,000) for the Spirac conveyors have arrived. More still have to be ordered. We are investigating the failure modes.
- g. The crew has started replacing the ash line outdoors with CPVC pipe as opposed to the Urethane now in place.
- h. The Maintenance Planner position was filled by an internal candidate
- i. The HVAC compressor for the service building failed and was replaced by a contractor.

7. Capital Projects

- a. Northeast Utilities has approved up to \$326,800 with a November 2011 completion date for the installation of new energy efficient aeration blowers. Airflows were sent to Jenn Muir to enable to review the aeration blower sizing. Some reasons the airflows are lower are: the addition of a second anoxic zone somewhat reduced the overall air requirement, the DO setpoints were lowered as the process was optimized, and septic is being diverted into the sludge storage tanks.

6. Veolia Water – Summary of WWTF Operations – July 2011.

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| Plant Process Data | Limit | Actual |
|-------------------------------|-------|--------|
| Total Suspended Solids (mg/l) | | |
| Influent Avg. | - | 175 |
| Effluent Avg. | 30 | 9 |
| Removal Efficiency | 85% | 95% |

| Plant Process Data* | Limit | Actual |
|---------------------|-------|--------|
| Carbonaceous BOD | | |
| Influent Avg. | - | 77 |
| Effluent Avg. | 30 | 7 |
| Removal Efficiency | 85% | 91% |

| | Oxford | OTR | Naugatuck | Middlebury |
|------------------------------|--------|-----|-----------|------------|
| July Flow Avg. (MGD) | 5.5 | | ### | #### |
| Sludge Liquid Total (MGal) | 4.03 | | | |
| Sludge Cake Total (Dry Tons) | 6.51 | | | |
| May Septage Total (MGal)* | 58,000 | | 31,000 | 154,250 |
| July Septage Total (MGal) | 58,250 | | 43,750 | 168,000 |
| * Corrected | | | | 786,250 |
| Discharge Permit Exceedance: | None | | | |

Safety Incidents and Odor Complaints

| | Month | YTD |
|-----------------------------|-------|-----|
| Recordable Accidents | 0 | 0 |
| Lost Time Accidents | 0 | 0 |
| Odor Complaints | 2 | 13 |
| Unconfirmed Odor Complaints | 0 | 0 |

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removal. Added to that list is an second sample train to test the same pollutants for the inlet to the WESP with submicron particle size distribution (inlet/outlet) for each test. A second test run for identical parameters is also proposed with the venturi operated at 15 inches of differential pressure. The purpose of the testing is to provide a baseline of analytical data we believe would be beneficial for future emission system design for the new emission standards.

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9. Adjournment

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADJOURN** the meeting at 6:49 P.M.

Attest: Catherine Aresta, Secretary/dl