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Fred Hurley,
Director

TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY

Richard B. Zang,
Chairman
Marianne Brown
Louis Carbone
Richard Conte
Alan Shepard
Eugene Vetrano
Carl Zencey

The Water and Sewer Authority held its regular meeting on Thursday, December 8, 2011 at the Waste Water Treatment Plant, 24 Commerce Road, Newtown. Chairman Zang called the meeting to order at 7:12PM.

Present: Marianne Brown, Richard Zang, Lou Carbone, Carl Zencey

Absent: Richard Conte, Alan Shepard, Eugene Vetrano

Also Present: Director of Public Works Fred Hurley, Jason O'Brien and Julio Segarra of United Water Environmental Services, Inc.

Public Participation: NONE

Approval of minutes – The previously distributed minutes of the regular meeting of October 13, 2011 and the special meeting on November 28, 2011 were unanimously approved.

OLD BUSINESS

Gallons processed vs gallons billed study-flow monitoring: There is data but they have not had a chance to collect it.

Capital Needs – SCADA system/new well: **SCADA** - There is a meeting at 9:00am on Tuesday at the Waste Water Treatment Plant to meet with CH2Mhill. **NEW WELL**, the A2 survey is still not complete. Fred will contact the firm and have it completed.

Fairfield Hill sewer service area: The draft map has been completed. They talked about having a separate district but they decided to keep it in the central district. The Fuss & O'Neil has completed a draft of the Water Supply Plan. Julio had some questions before the final draft goes to the state.

Renewable Energy Project: Because there is a small area of wetlands, there will be a wetlands hearing the second week in January. There is no anticipated problem at the hearing. They have asked for an educational brochure on the solar panels.

NEW BUSINESS

2012 Meeting Schedule – Marianne Brown moved to accept the 2012 meeting schedule, Carl Zencey seconded, motion unanimously accepted.

Amendments to Water Pollution Control Plan – There is one section on the priority list that needs to be deleted because of the court ruling. The court said that the WSA cannot take zoning into account. Carl Zencey suggested making it more specific. Fred explained that the court system treated the matrix as a math problem and that is the problem. Newtown is one of the only growth systems in the state. The WSA owes the state the maps for the sewer system and Dick would like to give them an updated plan. He asked that members take the plan home and review it.

Report by United Water Environmental Services, Inc. – As a whole the plant is running decent. The nitrogen went up substantially. They are having a problem with the Sandy Hook pump station reporting to them. They have had companies come to work on it but they cannot get into the Brystal Babcock system. The Hanover pump station generator is broke. It will be repaired next week. Carl Zencey suggested having the utilities involved if this could have been caused by a flux in power supply. During storm Alfred there was a substantial hit on grinder pumps. There were 20 changed out and 19 pump outs. A copy of the November Monthly Operating Report is attached.

Report by Public Works Director – Directors report was included throughout United Water's report.

Other Business - The March issue of TPO (Treatment Plant Operators) will have the article on the waste water treatment plant. You can go online and register to get a copy.

Having no further business meeting was adjourned at 8:20pm

Arlene Miles, Clerk

Attachment – United Water Environmental Services, Inc November Operating Report.



MONTHLY OPERATING REPORT
November 2011
TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of November the plant process performed well considering the aftermath of the Alfred storm event. Nitrogen removal has dropped off due to weather. The average pound per day during the month was 28.4 lbs. The open channel flow meter has been not been installed at the new location due to recent weather events. The meters are installed at a manhole at Grand Place and Commerce Road. Taunton Lake will be our next areas of focus. The SCADA bid results is in final review. The plant did sustain some damage due to the power outages.

Hanover Pump station had a voltage regulator failure and had to be pumped-out during the outage.

We lost several grinder pumps again throughout the sewer area.

Below are some of the highlighted major operation and maintenance items that are currently in progress or completed.

OPERATION & MAINTENANCE

- Inspect all plant fire extinguishers, eyewash, and emergency exit lighting.
- Inspected and adjusted sludge pumps in the thickener building..
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Greased gravity belt thickener.
- Inspected and cleaned polymer system.
- Cleaned secondary tanks 1&2 draft tubes.
- Cleaned gravity belt thickener belt.
- Replaced upper and lower bearings on the grit agitator drive motor.
- The rotomat needs some major work performed. (Scheduled with Kovacs Construction).
- Serviced and cleaned both Influent and effluent samplers.

PUMP STATIONS

- All pump station was checked prior to storm event.
- Replacement parts ordered for the Hanover pump station Generator. Repair schedule for Tuesday December 13th.
- Sandy Hook pump station scada system does not report back to the plant. Unable to gain access to the pump station Bristol Babcock software. (Password protect system)
Installing a temporary alarm notification system (Precision alarms) at Sandy Hook pump station.
- Supplied emergency power and pumped down as many grinder pump stations as possible during power outage.
- Replace grinder pumps at the following locations: List attached
- ADT inspected fire and intrusion alarm systems.
- Hanover pump station generator repair scheduled for December 13th.

ODOR ABATEMENT

There were no odor complaints for the month.

STAFFING

We are presently fully staffed.

TRAINING

All employees continued with our in house OSHA compliance safety training through PureSafety.

REGULATORY COMPLIANCE

The plant had no compliance problems during the month.

SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	32,500	40,625 gal/mo 2 loads/wk	0.0695MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.35	5.54	4.79	12,972

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	1	8
Plant	1	21
Odor	0	0
Grinder Systems	2	9

PLANT MAINTENANCE

The following data is provided as a record of maintenance work order activities during the month.

Type	Total This Month	Total for Year
Preventative Maintenance	26	113
Corrective Maintenance	22	120
Emergency Maintenance	19	28
Call-Before-You-Dig (CBYD)	22	145

FIELD OPERATIONS

Type	Monthly Ft	Total for Yr	Contract	Amount Left
Sewer Cleaning Scheduled	0	0	16,226 ft.	16,226
Sewer Cleaning Unscheduled	0	0	*****	*****
Other	Monthly Qty	Total for Yr	Contract	Amount Left
Manhole Inspections	0	0	*****	N/A
Grinder Replacements	5	18	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

PUMP STATIONS

Station	Baldwin	Hanover	Sandy Hook	Taunton Lake	Hawley-ville	Fairfield Hills Metering
Number Inspections/Mo.	8	8	8	8	8	8
Service Failures	0	0	0	0	0	0
Number Callouts	1	1	0	0	0	0
Maintenance & Repair	0	1	0	0	0	0
Flow (Total MG)	0.126	.369	1.903	.575	0.559	5.962
(Avg. Daily GPD)	4,229	12,333	63,437	19,195	18,661	198,733

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$7,164.13	\$26,471.27	\$21,364.60
Capital Repair and Replacement	\$95,000	\$22,323.87	\$65,442.32	\$29,557.68

FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2011	.381	663	612	January 2011	29
August 2011	.467	944	849	February 2011	36
September 2011	.638	910	860	March 2011	32
October 2011	.615	998	687	April 2011	12
November 2011	.546	903	793	May 2011	12
December 2011				June 2011	6
January 2012				July 2011	4
February 2012				August 2011	11
March 2012				September 2011	22
April 2012				October 2011	29
May 2012				November 2011	28
June 2012				December 2011	
Monthly Average	.529	884	760	Calendar Year to Date Average	20
Contract	Average 0.53 MGD Adjustment = Change in Flow in MG * \$17.83/MG	Avg. 999 lbs/day Adjustment = Change in BOD in lbs * \$0.04/lb	Avg. 703 lbs/day Adjustment = Change in TSS in lbs * \$0.16/lb	Contract	NPDES Permit Limit = 19 Lbs/day
Deviation % (+/-)	-0.2	-11	.08	Deviation % (+/-)	5.3

FAIRFIELD HILLS WTF

EXECUTIVE SUMMARY

The staff continues to improve equipment and standard operating methods to prevent Fairfield Hills WTP failures. Well # 3 is operating as the lead pump at <50 gallons per minute. The water treatment plant lost utility power 10/30/11.

1. Main water users were notified to go in to water conservation until further notification. (Garner Corrections and Nunnewauk Meadows).

2. All blow off were shut down until water storage bunkers resumed to normal capacities. Normal utility power was resumed at approximately 7:40pm 11/1/11.

There was no flushing of the lines at Fairfield Hills during the month of November.

Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

OPERATION & MAINTENANCE

- Inspected and topped off all supplies at the plant.
- Lost utility power 10/30/11.
- Resumed power at the water treatment plant at 7:40pm 11/1/11.
- Reopened blow-offs once storage bunkers were to capacity.
- Public Works and Health Directors were kept informed during the entire power outage.

STAFFING

Currently, all the regulatory required staffing positions are met for the Water Treatment Facilities.

REGULATORY COMPLIANCE

The Department of Health Monitoring Report did meet full compliance during the month.

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Plant	1	1
Well Houses	1	1
Reservoirs (Storage)	1	1
Customer Service Issues	0	0
Water Main Breaks	0	0

FAIRFIELD HILLS MAINTENANCE

The following data is provided as a record of maintenance work order activities during the month.

Type	Total This Month	Total for Year
Preventative Maintenance	8	26
Corrective Maintenance	0	0
Emergency Maintenance	0	0

FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	0
Hydrant Inspections	0	0
Service Inspections	0	0
Call-Before-You-Dig (CBYD)	0	7

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,295.12	\$9,539.56	\$5,960.44
Capital Repair and Replacement	\$20,000.00	\$0.00	\$1,785.76	\$18,214.24

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2011	1,166,000	4,733,800	0	5,899,800
August 2011	990,000	4,258,900	0	5,248,900
September 2011	950,000	4,299,000	0	5,249,000
October 2011	1,008,000	4,960,700	0	5,968,700
November 2011	663,000	3,413,900	0	4,076,900
December 2011			0	
January 2012			0	
February 2012			0	
March 2012			0	
April 2012			0	
May 2012			0	
June 2012			0	
Monthly Average	955,400	4,333,260	0	4,094,920
Daily Average	22,100	113,796	0	135,896