



MONTHLY OPERATING REPORT

July 2011

TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of July the plant process performed extremely well and the nitrogen removal was at its optimum. The facility is operating well below the plant's 6 mg/l design. Actual lbs per day average was 4 lbs. July's result has brought our average down and we are now averaging 19 lbs per day year to date. We averaged greater than **96%** removal. The open channel flow meter has been installed at the new location. 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 went through its quarterly and Chronic toxicity tests with passing results. 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 and inspect and replaced bulbs and ballast as needed on all Ultra Violet light systems and equipment.
- Cleaned and inspect Ultra Violet effluent channel.
- Cleaned gravity belt thickener belt.
- Replaced contacts on #2 turbine mixer and ordered replacements. Needs replacement starter and relays.
- Flushed alum lines in the filter building and secondary splitter box.
- Calibrated all flow meters in the plant and pump stations.
- Replaced heating system control modules in the head works.
- Replaced faulty schedule 80 PVC fitting in the filter building alum system.
- Pumped-out and inspected Bungalow Terrace septic field
- Inspect both influent and effluent composite samplers.
- Administration building air conditioning compressor needs replacement. (ordered)

PUMP STATIONS

- All pump station flow meters were checked and calibrated.
- Replaced grinder pump 3 Martin St. (Call-in)

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)	39,000	40,625 gal/mo 2 loads/wk	0.039MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	39,000	4.40	5.59	4.93	16,041

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	1	1
Plant	4	4
Odor	0	0
Grinder Systems	1	1

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	40	40
Corrective Maintenance	19	19
Emergency Maintenance	1	1
Call-Before-You-Dig (CBYD)	38	38

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	1	1	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

PUMP STATIONS

Station	Baldwin	Hanover	Sandy Hook	Taunton Lake	Hawleyville	Fairfield Hills Metering
Number Inspections/Mo.	8	8	8	8	8	8
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	1	0	0
Maintenance & Repair	1	1	1	1	1	1
Flow (Total MG)	0.121	0.386	1.827	.407	0.601	4.956
(Avg. Daily GPD)	3,916	12,472	58,945	13,155	19,390	159,879

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$7,760.09	\$7,760.09	\$47,239.91
Capital Repair and Replacement	\$95,000	\$15,743.80	\$15,743.80	\$79,256.20

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				February 2011	36
September 2011				March 2011	32
October 2011				April 2011	12
November 2011				May 2011	12
December 2011				June 2011	6
January 2012				July 2011	4
February 2012				August 2011	
March 2012				September 2011	
April 2012				October 2011	
May 2012				November 2011	
June 2012				December 2011	
Monthly Average				Calendar Year to Date Average	19
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 % (+/-)	-28	-34	-13	Deviation % (+/-)	0

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 <60 gallons per minute. In order to maintain the water quality; Sand filters were installed at Town Hall and The Youth Academy their addition has improved the water quality at each facility.

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

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

OPERATION & MAINTENANCE

- Working with Fuss & O'Neill on the water supply plan.
- A scope of work has been created and a bid will be issued for well #3.

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	0	0
Well Houses	0	0
Reservoirs (Storage)	0	0
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	8
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)	3	3

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$2,728.16	\$2,728.16	\$12,771.84
Capital Repair and Replacement	\$20,000.00	\$593.98	\$593.98	\$19,406.02

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			0	
September 2011			0	
October 2011			0	
November 2011			0	
December 2011			0	
January 2012			0	
February 2012			0	
March 2012			0	
April 2012			0	
May 2012			0	
June 2012			0	
Monthly Average	1,166,000	4,733,800	0	5,899,800
Daily Average	37,613	152,703	0	190,316