



## **MONTHLY OPERATING REPORT September 2010**

### **TOWN OF NEWTOWN WPCF**

#### **EXECUTIVE SUMMARY**

During the month of September the plant process performed well. The nitrogen removal process averaged greater than 86%. We are on a break even track with 2010 nitrogen removal. Below are some of the highlighted major operation and maintenance items that are currently in progress or completed. The laptop has not been received as of yet.

#### **OPERATION & MAINTENANCE**

- Inspect all plant fire extinguishers, eyewash, and emergency exit lighting.
- Inspect and rotate UV reactor, bank B is on lead.
- Hosed secondary wells and troughs.
- Performed complete cleaning of the gravity belt.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Pumped out and cleaned the sludge holding tank in the filter building.
- Replaced desiccants on both influent and effluent composite samplers.
- Greased the bearing on the RAS / W.A.S. pumps, the ditch slide gates, grit agitator and Rotor-mat.
- Daily inspections of the UV system.
- Greased Gravity belt thickener weekly.
- Hosed the influent channel and flume area.
- Inspect plant generator.
- Cleaned secondary tanks 1&2 draft tubes.
- Inspected and prepared #2 secondary tank for service.
- Cleaned and prepared #1 sludge pump for complete overhaul.
- Bill Roy septic pumped-out Bungalow Terrace.
- Plant truck required replacement of the starter / and wires.
- Replaced the torque controllers on both #1&2 secondary clarifiers.
- Changed air filters on the HVAC system in the headworks.
- Cleaned and back-flushed the air bleeder for the sludge discharge line.

## PUMP STATIONS

- Pumps were checked and are operating normally.
- Inspect all of the fire extinguishers.
- Replaced a pressure transducer at Taunton Lake pump station.
- September 7<sup>th</sup>, replaced grinder pump at 12 Budd Drive.

## ODOR ABATEMENT

There were no odor complaints for the month.

## STAFFING

We are presently fully staffed.

## TRAINING

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

## REGULATORY COMPLIANCE

No limits were exceeded.

## SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	48,174	40,625 gal/mo 2 loads/wk	0.0953 MG	0.488 MG 75 loads/yr

## ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	48,174	2.70	5.80	4.10	16,472

## EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	1	2
Plant	1	6
Odor	0	0
Grinder Systems	0	5

## 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	35	80
Corrective Maintenance	2	23
Emergency Maintenance	1	1
Call-Before-You-Dig (CBYD)	32	91

## 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	6	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	0	0	0
Maintenance & Repair	0	0	0	1	0	0
Flow (Total MG)	0.114	0.316	1.437	.388	0.498	3.798
(Avg. Daily GPD)	3,807	10,544	47,912	12,946	16,630	126,600

## FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$4,756.18	\$14,842.75	\$40,157.25
Capital Repair and Replacement	\$95,000	\$11,095.94	\$25,046.99	\$69,953.01

## FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2010	0.272	611	482	January 2010	26
August 2010	0.278	581	533	February 2010	21
September 2010	0.317	710	521	March 2010	38
October 2010				April 2010	17
November 2010				May 2010	14
December 2010				June 2010	11
January 2011				July 2010	6.1
February 2011				August 2010	12
March 2011				September 2010	19
April 2011				October 2010	
May 2011				November 2010	
June 2011				December 2010	
Monthly Average	0.289	634	512	Calendar Year to Date Average	18
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 % (+/-)	-45	-36	-27	Deviation % (+/-)	-5

# **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 70 gallons per minute. In order to maintain the water quality; select areas were flushed. Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

## **OPERATION & MAINTENANCE**

- Flushed the following lines of the Youth Sports Complex and the Bridgeport House.
- Flushed hydrants on Mile Hill South.
- Youth Sports Complex water color continues to be a problem.
- Flushed supply line in front of the Reed School Building.
- Flushed lines at 8 Mile Hill south and at the Horse Guard facility.
- Inspect fire extinguishers at the water treatment plant.
- Replacing chemical feed pumps (phosphate).

## **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**

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

## 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	0	2
Corrective Maintenance	0	2
Emergency Maintenance	0	0

## FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	0
Hydrant Inspections	0	5
Service Inspections	0	0
Call-Before-You-Dig (CBYD)	1	6

## FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,455.34	\$3,811.21	\$11,688.79
Capital Repair and Replacement	\$20,000.00	\$738.05	\$2,267.55	\$17,732.45

## FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2010	1,197,000	4,200,200	0	5,397,200
August 2010	1,176,000	4,522,200	0	5,698,200
September 2010	1,184,000	4,366,900	0	5,550,900
October 2010			0	
November 2010			0	
December 2010			0	
January 2011			0	
February 2011			0	
March 2011			0	
April 2011			0	
May 2011			0	
June 2011			0	
Monthly Average	1,185,666	4,363,033	0	5,548,766
Daily Average	39,488	145,563	0	185,030