



## **MONTHLY OPERATING REPORT**

### **March 2011**

### **TOWN OF NEWTOWN WPCF**

#### **EXECUTIVE SUMMARY**

During the month of March the plant process performed well and the nitrogen removal process has greatly improved, and is operating below the plant's 6 mg/l design. Although due to the heavy rain and snow melt we only averaged greater than 80% removal. The open channel flow meters have been installed at the new locations 4 and 5. The data gathered will be inspected once per month. The meters were installed at the manhole near the plant and Commerce Road. The Hanover rd and Taunton Lake rd. area are the next areas of focus. The SCADA RFP is in final review. 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.
- Inspect and tested all generators and transfer switches.
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Cleaned secondary tanks 1&2 draft tubes.
- Cleaned and inspect all Ultra Violet light systems and equipment.
- Cleaned and inspect Ultra Violet effluent channel.
- Cleaned gravity belt thickener belt.
- Inspect and service influent composite sampler.
- Inspect and service effluent composite sampler.

#### **PUMP STATIONS**

- Pumps were checked and are operating normally.
- Replaced faulty voltage regulator at Hanover rd. pump station.
- Inspect and test all generators and transfer switches.
- Hanover Rd. pump station generator's cooling radiator is weeping coolant and needs replacement asap.
- Hanover rd. pump station needs voltage potentiometer replacement.
- Inspect all of the fire extinguishers.
- Two grinder pumps were replaced at 55 Sugar st. rear lot March 11th.

- Inspected, washed down all pump stations, and FFH flume of grit March 30<sup>th</sup>.
- Replaced a grinder pump at Pitney Bowles March 31<sup>th</sup>.

## **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	0.3293 MG	0.488 MG 75 loads/yr

## **ANALYSIS OF WASTED SLUDGE**

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.45	4.87	4.69	12,799

## **EMERGENCY CALL-OUTS**

Type	Total This Month	Total for Year
Sewer Backup	0	1
Pump Station	0	3
Plant	2	9
Odor	0	0
Grinder Systems	0	6

## 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	18	215
Corrective Maintenance	13	107
Emergency Maintenance	0	1
Call-Before-You-Dig (CBYD)	29	214

## 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	3	10	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.	10	12	10	10	10	10
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	0	0	0
Maintenance & Repair	2	4	2	2	2	2
Flow (Total MG)	0.153	0.677	2.147	.858	0.656	7.531
(Avg. Daily GPD)	4,952	21,840	69,261	27,686	21,187	242,935

## FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$4,692.41	\$43,023.43	\$11,976.57
Capital Repair and Replacement	\$95,000	\$6,989.02	\$93,940.27	\$1,059.73

## 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 2011	29
August 2010	0.278	581	533	February 2011	36
September 2010	0.317	710	521	March 2011	32
October 2010	0.406	727	709	April 2011	
November 2010	0.449	846	656	May 2011	
December 2010	0.545	820	883	June 2011	
January 2011	0.477	954	761	July 2011	
February 2011	0.555	931	859	August 2011	
March 2011	.684	632	631	September 2011	
April 2011				October 2011	
May 2011				November 2011	
June 2011				December 2011	
Monthly Average	0.442	757	671	Calendar Year to Date Average	33
<b>Contract</b>	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 % (+/-)	-16.5	-24	-4.6	Deviation % (+/-)	68

# 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 65 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. **We flushed the lines to assure water quality.** Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

## OPERATION & MAINTENANCE

- Youth Sports Complex is happy with the water quality.
- Inspect fire extinguishers at the water treatment plant.
- Work order has been placed for the corrosion control (phosphate) chemical feed pumps for the Water Treatment Plant.
- Working with Fuss & Oneill on the water supply plan.
- Newtown I.T. Department working with Charter cable on storage tanks connecting streaming video surveillance system.

## 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	1
Reservoirs (Storage)	0	0
Customer Service Issues	0	0
Water Main Breaks	0	1

## 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	2	20
Corrective Maintenance	0	24
Emergency Maintenance	1	1

## 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)	5	22

## FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,233.68	\$10,648.59	\$4,851.41
Capital Repair and Replacement	\$20,000.00	\$0.00	\$13,537.46	\$6,462.54

## 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	1,028,000	4,366,600	0	5,394,600
November 2010	790,000	3,939,800	0	4,729,800
December 2010	1,002,000	4,351,000	0	5,353,000
January 2011	830,000	3,828,900	0	4,658,900
February 2011	850,000	3,776,900	0	4,626,900
March 2011	874,000	4,029,300	0	4,903,300
April 2011			0	
May 2011			0	
June 2011			0	
Monthly Average	992,333	4,153,533	0	5,146,422
Daily Average	28,193	129,977	0	158,170