



MONTHLY OPERATING REPORT March 2010

TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of March the plant process performed well. The nitrogen removal process averaged greater than 74%. We experienced a lot of heavy weather changes during the month, but we were able to maintain a stable process. Below are some of the highlighted major operation and maintenance items that are currently in progress or completed.

OPERATION & MAINTENANCE

- Cleaned under the grating system in the filter building.
- All fire extinguishers, eyewash stations, and emergency exit lighting were inspected.
- Hosed secondary wells and troughs.
- Replaced faulty proximity switch on # 1 sand filter.
- Installed new plumbing on the plant water system.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Greased the bearing on the RAS / W.A.S. pumps, the ditch slide gates, grit agitator, and Rotor-mat.
- Pressure washed UV channel.
- Cleaned and installed UV lights on Bank "A".
- Hosed the influent channel and flume area.
- Inspect plant generator.
- Repaired the alum line.
- Replaced sump pump in the filter building.

PUMP STATIONS

- Pumps were checked and are operating normally.
- Inspect all of the fire extinguishers.
- Hanover pump station was back-flushed
- Replaced a faulty phase monitor relay at Hanover pump station.
- On March 29th, replaced grinder pump at 22 Commerce Rd.

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

No limits were exceeded.

SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	13,000	40,625 gal/mo 2 loads/wk	0.2335 MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	13,000	6.50	6.70	6.60	7,129

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	0	0
Plant	0	14
Odor	0	0
Grinder Systems	1	4

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	20	226
Corrective Maintenance	4	94
Emergency Maintenance	0	0
Call-Before-You-Dig (CBYD)	22	172

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	0	0	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	2	0	0	0	0
Flow (Total MG)	0.151	0.640	1.917	1.031	0.439	7.357
(Avg. Daily GPD)	4,897	20,656	61,850	33,258	14,189	237,339

FINANCIAL STATUS - MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$6,393.60	\$30,206.63	\$24,793.37
Capital Repair and Replacement	\$95,000	\$9,356.02	\$50,519.87	\$44,480.13

FLOW AND LOADS TRACKING

Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Average N, Lbs
July 2009	0.368	692	513	13
August 2009	0.397	741	732	11
September 2009	0.353	654	630	8
October 2009	0.381	725	525	11
November 2009	0.408	232	175	19
December 2009	0.549	741	604	27
January 2010	0.515	864	814	26
February 2010	0.504	858	769	21
March 2010	0.733	989	905	38
April 2010				
May 2010				
June 2010				
Monthly Average	0.467	721	629	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	NPDES Permit Limit = 19 Lbs/day
Deviation % (+/-)	-12	-28	-11	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 75 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 has improved.
- 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.
- Repaired pipe fittings on phosphate pump.

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 of March.

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Plant	1	1
Well Houses	0	0
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	6	77
Corrective Maintenance	0	19
Emergency Maintenance	0	0

FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	9
Hydrant Inspections	0	14
Service Inspections	0	1
Call-Before-You-Dig (CBYD)	1	20

FINANCIAL STATUS - MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$889.54	\$8,691.94	\$6,808.06
Capital Repair and Replacement	\$20,000.00	\$3,090.46	\$14,315.97	\$5,684.03

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2009	1,174,000	3,842,000	0	5,016,000
August 2009	857,000	4,340,400	0	5,197,400
September 2009	597,000	4,188,300	0	4,785,300
October 2009	1,919,000	4,308,400	0	6,227,400
November 2009	1,221,000	3,791,400	0	5,012,400
December 2009	1,210,000	3,645,700	0	4,855,700
January 2010	1,187,000	3,612,100	0	4,799,100
February 2010	1,123,000	3,527,800	0	4,650,800
March 2010	1,037,000	3,567,400	0	4,604,400
April 2010				
May 2010				
June 2010				
Monthly Average	1,147,222	3,869,276	0	5,016,499
Daily Average	33,451	115,077	0	148,529