



## **MONTHLY OPERATING REPORT JUNE, 2015 TOWN OF NEWTOWN WPCF**

### **EXECUTIVE SUMMARY**

During the month of June the plant process performed well. Nitrogen average pound per day during the month was **14.10 lbs.**

SCADA project is close to completion with just some minor adjustment through the pump stations and plant.

Pump stations and plant SCADA have been in operation and working well.

There have been no operational events due to the upgrade work being performed. The DEEP has been kept in the loop as the project proceeds.

We are operating ultraviolet treatment and alum dosing process from May 1<sup>st</sup> 2015 – September 30<sup>th</sup>.

**The main focus during the month of June was to maintain plant operations during summer repairs throughout the plant.**

Plant ran well with no major issues.

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

### **PROJECTS**

#### **SCADA**

Full operations, Fire and security tie-in has been completed

#### **SOLAR**

**IS NOW OPERATIONAL!**

- **Sound Solar is our new service technicians.**

## **SEWER PLANT - OPERATIONS & MAINTENANCE**

- Cleaned Filter Building
- Replaced the tubing on the Influent sampler
- Applied a coat of paint on lab wall
- Turned off RAS #2 due to mechanical seal leaking turned on swing pump.
- Drained water from Clarifier #1 for inspection and repair
- Removed RAS #2 for repairs
- Cleaned garage and lab
- HISCO Pump worked on swing pump
- Precision Alarm working on system in Admin Bldg
- Repair of solar panels at plant
- Pumped out water of secondary containment tank
- Disposal of large trash items to the town dump
- Removed wiper from top flight on Clarifier #1 and installed new one
- Moved 10 boxes for storage in Filter Building
- Repairs on emergency lights and exit signs
- Plant Eyewash and Safety inspection

## **COLLECTION SYSTEMS –**

### **PUMP STATIONS, GRINDER PUMP, SEPTAGE AND SANITARY LINE & MANHOLES**

- Called in Wind River for 55 Sugar Street and replaced two grinder pumps on 6/21/15
- Butter worth and Scheck repaired broken force main at 55 Sugar Street on 6/27/15 and replaced two grinder pump and called Wind River – middle grinder pump station
- Butterworth & Scheck repair storm drain – not sewer at St. Rose of Lima Church

## **ODOR ABATEMENT**

No odors this month.

## **STAFFING**

We are presently fully staffed for the month of June.

## **TRAINING**

All employees continued with our in house OSHA compliance safety training through Pure-Safety.

## **REGULATORY COMPLIANCE**

In Compliance

## PLANT - SOLIDS HANDLING

Type	Gallons This Month	Target	Total Gallons This Year	Target
Sludge (SYNAGRO)	45,500	40,625 gal/mo 2 loads/wk	.382 MG	0.527 MG 75 loads/yr

## ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	45,500	4.03	4.82	4.36	16,556

## EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	0	1
Plant	0	1
Odor	0	0
Grinder Systems	4	8
Call-Before-You-Dig (CBYD)	6	6

## PROJECT MAINTENANCE

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

Type	Total This Month	Calendar Total for Year
Preventative Maintenance	19	174
Corrective Maintenance	17	130
Emergency Maintenance	0	4
Call-Before-You-Dig (CBYD)	90	251

## FIELD OPERATIONS

Type	Monthly Ft	Total for Yr	Contract	Amount Left
Sewer Cleaning Scheduled	8,748	8,748	*****	****10,000***
Sewer Cleaning Unscheduled	0	0	*****	*****
<b>Other</b>	<b>Monthly Qty</b>	<b>Total for Yr</b>	<b>Contract</b>	<b>Amount Left</b>
Manhole Inspections	0	49	*****	N/A
Grinder Replacements	4	12	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

**PUMP STATIONS**

<b>Station</b>	<b>Baldwin</b>	<b>Hanover</b>	<b>Sandy Hook</b>	<b>Taunton Lake</b>	<b>Hawleyville</b>	<b>Fairfield Hills Metering</b>
<b>Number Inspections/Mo.</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
<b>Power Failures</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Number Callouts</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Maintenance &amp; Repair</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Flow (Total MG)</b>	<b>.117</b>	<b>.327</b>	<b>3.422</b>	<b>.570</b>	<b>.633</b>	<b>4.717</b>
<b>(Avg. Daily GPD)</b>	<b>3,929</b>	<b>10,905</b>	<b>114,071</b>	<b>19,023</b>	<b>21,122</b>	<b>157,258</b>

**FINANCIAL STATUS – MAINTENANCE**

<b>Item</b>	<b>Budget \$</b>	<b>\$ Spent/Mo</b>	<b>\$ Spent/Yr</b>	<b>\$ Remaining</b>
<b>Preventative and Predictive</b>	<b>\$55,000</b>	<b>\$3,020.13</b>	<b>\$58,207.00</b>	<b>-\$3,207.00</b>
<b>Capital Repair and Replacement</b>	<b>\$95,000</b>	<b>\$31,400.77</b>	<b>\$172,800.79</b>	<b>-\$77,800.79</b>

**HAWLEYVILLE SEWER DISTRICT  
EXECUTIVE SUMMARY - OPERATION & MAINTENANCE**

**INSPECTIONS**

<b>Type</b>	<b>Total This Month</b>	<b>Total for Year</b>
<b>Hawleyville Pump Station</b>		
<b>Grinder Pump Station 1</b>		
<b>Grinder Pump Station 2</b>		
<b>Grinder Pump Station 3</b>		
<b>Grinder Pump Station 4</b>		

**EMERGENCY CALL-OUTS**

<b>Type</b>	<b>Total This Month</b>	<b>Total for Year</b>
<b>Hawleyville Pump Station</b>		
<b>Grinder Pump Station 1</b>		
<b>Grinder Pump Station 2</b>		
<b>Grinder Pump Station 3</b>		
<b>Grinder Pump Station 4</b>		

## HAWLEYVILLE 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		
Corrective Maintenance	1	2
Emergency Maintenance		

## FIELD OPERATIONS

Hawleyville District	Monthly Qty	Total for Year
Service Inspections		
Call-Before-You-Dig (CBYD)	0	0

## HAWLEYVILLE - FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive				
Capital Repair and Replacement				

## FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2014	.422	828	746	January 2015	22.73
August 2014	.351	695	513	February 2015	17.43
September 2014	.299	589	586	March 2015	19.02
October 2014	.351	650	607	April 2015	17.45
November 2014	.421	753	850	May 2015	13.05
December 2014	.604	947	815	June 2015	14.10
January 2015	.534	732	607	July 2015	
February 2015	.487	684	603	August 2015	
March 2015	.575	803	726	September 2015	
April 2015	.553	614	678	October 2015	
May 2015	.460	785	758	November 2015	
June 2015	.476	720	785	December 2015	
Monthly Average	.461	733	690	Calendar Year to Date Average	17.29
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 = 42 Lbs/day
Deviation % (+/-)	-13.00	-26.59	-1.80	Deviation % (+/-)	-58.81

# FAIRFIELD HILLS WTF

## EXECUTIVE SUMMARY

The staff continues to improve equipment and standard operating methods to prevent Fairfield Hills WTP failures. Well # 7 is operating as the lead pump and # 3 as lag. The water treatment plant operated very well in June considering the power issues from the lightning strike.

GHD and Fuss & O'Neill are working to comply with the DPH upgrade requests and all temporary repairs or modifications have been completed. Pictures of the completed work were sent to the DPH.

Check and maintain calibrations of all equipment.

**\*\*\*The 2400volt feeder to well 7 and 8 sustained damage during an apparent lighting strike during the first storm of the season.**

**It blew open one leg and caused an imbalance in the other transmission lines which broke down the insulation on all the phases.**

**During the event it also took out both of the booster pumps.**

**We manage the event without affecting the pressure and water quality to our customers!**

**This took place during the last weekend in May.**

**The Water treatment operations has resumed normal operations.**

**All our vendors performed well for the town and it a non-crisis event.**

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

## OPERATION & MAINTENANCE

- Butterworth & Scheck replacing two broken Post Indicator Valve (PIV) – one on Trade's Lane and the other on Keating Farm.
- High Voltage Electricians working at Water Treatment Plant and Well #7 on 6/2/15
- Pulled out electrical cable at WTP and Well #7 on 6/5/15
- Mermaid Trucking brought water to the bunkers – 56 trucks = 364,000 gallons
- Installed Booster pump #1 & #2
- Weed wacked Bungalow Terrace
- Cleaned chlorine system – pulled chlorine pump & injector
- Cleaned clear well
- Flushed out Well #3 prior to putting on line
- Called in for Fire Hydrant at FFH
- Closed and reopened blow off for FFH on 6/23/15
- Installing high voltage (approximately 4,000 feet) electrical lines for Well #7 on 6/23/15
- Nutmeg utility working at clear well at WTP
- Overhauled and replaced both booster pumps at WTP by HISCO Pumps

## 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 WTP	0	0
Well Houses	0	0
Reservoirs (Storage)	0	0
Customer Service Issues	0	1
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	21	72
Corrective Maintenance	13	23
Emergency Maintenance	8	11

## **FAIRFIELD HILLS WATER - FIELD OPERATIONS**

Other	Monthly Qty	Total for Year
Valve Inspections	0	3
Hydrant Inspections	0	1
Service Inspections	0	26
Call-Before-You-Dig (CBYD)	6	41

## FINANCIAL STATUS – MAINTENANCE

<b>Item</b>	<b>Budget \$</b>	<b>\$ Spent/Mo</b>	<b>\$ Spent/Yr</b>	<b>\$ Remaining</b>
<b>Preventative and Predictive</b>	<b>\$15,500.00</b>	<b>\$873.07</b>	<b>\$17,948.58</b>	<b>-\$2,448.58</b>
<b>Capital Repair and Replacement</b>	<b>\$20,000.00</b>	<b>\$2,079.14</b>	<b>\$111,006.61</b>	<b>-\$91,006.61</b>

## WELL PRODUCTION

<b>Month/Yr</b>	<b>Well No. 3 Gallons</b>	<b>Well No. 7 Gallons</b>	<b>Well No. 8 Gallons</b>	<b>Plant Production Gallons</b>
<b>July 2014</b>	<b>456,000</b>	<b>6,014,500</b>	<b>0</b>	<b>6,470,500</b>
<b>August 2014</b>	<b>1,000</b>	<b>5,589,800</b>	<b>0</b>	<b>5,590,800</b>
<b>September 2014</b>	<b>0</b>	<b>6,124,500</b>	<b>0</b>	<b>6,124,500</b>
<b>October 2014</b>	<b>0</b>	<b>6,215,200</b>	<b>0</b>	<b>6,215,200</b>
<b>November 2014</b>	<b>93,000 ***</b>	<b>2,257,500 ***</b>	<b>0</b>	<b>2,350,500 ***</b>
<b>December 2014</b>	<b>889,000</b>	<b>6,019,600</b>	<b>0</b>	<b>6,908,600</b>
<b>January 2015</b>	<b>0</b>	<b>3,674,700</b>	<b>0</b>	<b>3,674,700</b>
<b>February 2015</b>	<b>0</b>	<b>7,070,400</b>	<b>0</b>	<b>7,070,400</b>
<b>March 2015</b>	<b>0</b>	<b>4,430,500</b>	<b>0</b>	<b>4,430,500</b>
<b>April 2015</b>	<b>0</b>	<b>5,154,400</b>	<b>0</b>	<b>5,154,400</b>
<b>May 2015</b>	<b>0</b>	<b>3,608,900</b>	<b>0</b>	<b>3,608,900</b>
<b>June 2015</b>	<b>187,000</b>	<b>7,219,900</b>	<b>0</b>	<b>7,406,900</b>
<b>Monthly Average</b>	<b>325,200</b>	<b>5,281,658</b>	<b>0</b>	<b>5,417,158</b>
<b>Daily Average</b>	<b>6,233</b>	<b>240,663</b>	<b>0</b>	<b>246,897</b>

\*\*\*Water reading were only two weeks' worth of operation due to holiday schedules