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Fred Hurley,  
*Director*

**TOWN OF NEWTOWN**  
WATER AND SEWER AUTHORITY

Marianne Brown,  
*Chairman*  
Richard Zang  
Louis Carbone  
George Hill  
Alan Shepard  
Eugene Vetrano  
Carl Zencey

THESE MINUTES ARE SUBJECT TO APPROVAL BY THE WATER AND SEWER AUTHORITY

The Water and Sewer Authority held a regular meeting on January 14, 2016 at the Wastewater Treatment Plant, 24 Commerce Road, Newtown, CT. Chair Brown called the meeting to order at 7:00 pm.

**Present:** Marianne Brown, Gene Vetrano, George Hill, Dick Zang, Carl Zencey, Alan Shepard (Left at 8:05)

**Absent:** Lou Carbone

**Also Present:** Director of Public Work Fred Hurley, Mike Burke and Julio Segarra from Suez, Peter Alagna and one member of the press

**Public Participation** – None

**Approval of the Minutes** – Gene Vetrano moved to approve the minutes from the 12/10/15 meeting as presented. Motion unanimously approved.

## UNFINISHED BUSINESS

*Hawleyville Sewer Extension* – Fred Hurley reported that the extension agreement has been approved by legal. They are assessed on raw land unless they have an approved plan for development. There is a gallons per day, peak flow, and an assessment value. Grace Family Church is the only one with an approved site plan. The other large properties are assessed on the raw land. This document is the contract to financially bind the property owner. The bid award for the project cannot be made until all agreements are returned to assure there will be enough money to complete the project. Alan Shepard was not in agreement to reviewing the document at that time and left the meeting. Dick Zang moved to approve the agreement subject to any substantial objection other than administrative corrections. Gene Vetrano seconded, motion unanimously approved.

*170 Mt. Pleasant Road* – Tabled

## NEW BUSINESS

*Town of Newtown Sewer Project* – Mr. Alagna handed out an insert that will be added under acknowledgements to include David Grogins who was essential to the sewers. Since Mr. Alagna resigned from the WPCA he has not been involved at all. Carole Ross in Human Resources encouraged him to put together a report that is reader friendly and a history of what occurred. He made it available

to the First Selectman and she felt there are questions raised that need to be resolved. One question is whether the 100,000 gpd allocated from the state for FFH is sufficient for development at FFH. It is Mr. Alagna's opinion that FFH can be a destination hub for the town. If you can provide that it could become a destination place that would attract people. Dick Zang noted that the plant capacity is 932,000 gallons per day. The state has 500,000 gpd and we have 432,000 gpd. As of December, the total plant flow is just over 432,000 gallons a day. Fred Hurley clarified that in their dialog with the state, they made it clear that capacity for development is not desirable. Environmental request are a very different issue. At this time we don't know what the potential land use is for FFH and current capacity seems adequate.

The second question was raised by the Dauti court case. Sewer avoidance is important because it protects the foot print of the sewer system. Attorney Dave Grogins recommended to the WSA that there should not be any reference to zoning in the allocation matrix and that has been removed. Fred Hurley indicated that the current approach is to license the capacity. The water pollution control plan was changed taking out the reference to Zoning. They also revised the sewer use regulations. The user has now paid for capacity regardless if it is used it or not.

Fred Hurley explained that plan needs to come from the WSA. Mr. Alagna asked if the WSA is satisfied with the plan. Dick Zang replied that this is a history and not a plan and thanked Mr. Alagna for his efforts.

The printed document has many changes that need to be made. Alan Shepard made motion to allow additional spending to have this reprinted. Gene Vetrano seconded, motion unanimously approved.

*Reported by Suez Water Environmental* – December 2015 monthly operating report is attached. The transformer has been replaced and is in place for well 8 project to begin. The portable generator was put into use for 3 days when putting in the transformer and it worked good. SCADA – As soon as the data is ironed out, they will be ready for training

*Report by Public Works Director* – Julio Segarra and Fred Hurley were helping Edmond Hall with an odor issue.

On 302 near Elm Drive the State is replacing a culvert. The tip of the wing wall will be on the sewer line. They would like to encase the sewer line in concrete. This project has been in the works for 2 years because of the utilities.

Having no further business the meeting was adjourned at 8:24pm.

Respectfully Submitted,  
Arlene Miles



**MONTHLY OPERATING REPORT  
DECEMBER, 2015  
TOWN OF NEWTOWN WPCF**

**EXECUTIVE SUMMARY**

During the month of December the plant process performed well. Nitrogen average pound per day during the month was **9.38 lbs.**

All annual, and semi-annual tests performed during December were completed with excellent results. ☺

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

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.

Schedule to be performed is to update the plant influent meter and Parshall Flume meter at Fairfield Hill.

The ultraviolet treatment and alum dosing has been shut down since October 1, 2015 and will restart on April 2016. The ultraviolet system bank B is presently being over hauled due to new installation and will be done by January or February 2016.

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

Plant ran well with no major issues.

Highlighted below are some of the major operations 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 out RAS lines at secondary tank
- Manual backflush on sand filter #2
- Simplex inspecting sprinkler system
- Simplex Grinnell checking alarm issues.
- Aaron Ass. installed new flow meter at headworks
- Repaired garage door at headworks
- Inserted plow guides around facility
- Sand filter #2 taken offline for electrical works and sand filter #1 was put on line.
- Checking on flow from ditch to splitter box to clarifier
- Cleaned grit channel at headworks
- Pump out clarifier #1 and dry well
- Cleaned out baffle at clarifier #2
- Wind River emptied scum pit
- Shoveled and snow plowed at facility
- Contractor working on boiler system

## **COLLECTION SYSTEMS –**

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

- Clean out distilling tubes at pump stations.
- Changed grinder pump at 55 Sugar Street
- Replaced air compressor check valve at Hawleyville pump station.
- Emergency lighting replacement at pump stations.
- Blow back pump#2 at Sandy Hook pump station

## **ODOR ABATEMENT**

No odors this month.

## **STAFFING**

We are presently fully staffed for the month of December.

## **TRAINING**

All employees continued with our in house OHSA 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)	32,500	40,625 gal/mo 2 loads/wk	.370 MG	0.527 MG 75 loads/yr

## ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.49	5.37	4.92	13,325

## EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	0	3
Plant	0	1
Odor	0	0
Grinder Systems	1	19
Call Before You Dig (CBYD)	2	21

## PROJECT MAINTENANCE

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

Type	Total This Month	Calenda Total for Year
Preventative Maintenance	35	304
Corrective Maintenance	21	228
Emergency Maintenance	1	7
Call-Before-You-Dig (CBYD)	26	580

## FIELD OPERATIONS

Type	Monthly Ft	Total for Yr	Contract	Amount Left
Sewer Cleaning Scheduled	8448	08448	*****	****7650****
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	1	68	*****	N/A
Grinder Replacements	1	21	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>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>Flow (Total MG)</b>	<b>.124</b>	<b>.318</b>	<b>1.562</b>	<b>.416</b>	<b>.789</b>	<b>2.829</b>
<b>(Avg. Daily GPD)</b>	<b>4,022</b>	<b>10,264</b>	<b>50,418</b>	<b>13,451</b>	<b>25,482</b>	<b>91,258</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>\$4,737.82</b>	<b>\$16,019.11</b>	<b>\$38,980.89</b>
<b>Capital Repair and Replacement</b>	<b>\$95,000</b>	<b>\$19,830.93</b>	<b>\$21,923.36</b>	<b>\$73,076.64</b>

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

**INSPECTIONS**

Type	Total This Month	Total for Year
Hawleyville Pump Station		
Grinder Pump Station 1		
Grinder Pump Station 2		
Grinder Pump Station 3		
Grinder Pump Station 4		

**EMERGENCY CALL-OUTS**

Type	Total This Month	Total for Year
Hawleyville Pump Station		
Grinder Pump Station 1		
Grinder Pump Station 2		
Grinder Pump Station 3		
Grinder Pump Station 4		

**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		
Emergency Maintenance		

**FIELD OPERATIONS**

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

**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, 2015	0.516	1,313	1,453	January, 2015	22.73
August, 2015	0.354	724	735	February, 2015	17.43
September, 2015	0.542	742	861	March, 2015	19.02
October, 2015	0.372	575	601	April, 2015	17.45
November, 2015	0.376	684	599	May, 2015	13.05
December, 2015	0.347	612	592	June, 2015	14.1
January, 2016				July, 2015	11.63
February, 2016				August, 2015	9.95
March, 2016				September, 2015	10.72
April, 2016				October, 2015	12.20
May, 2016				November, 2015	14.65
June, 2016				December, 2015	9.38
Monthly Average	0.418	775	807	Calendar Year to Date Average	14.35
<b>Contract</b>	<b>Average 0.53 MGD Adjustment = Change in Flow in MG * \$17.83/MG</b>	<b>Avg. 999 lbs/day Adjustment = Change in BOD in lbs * \$0.04/lb</b>	<b>Avg. 703 lbs/day Adjustment = Change in TSS in lbs * \$0.16/lb</b>	<b>Contract</b>	<b>NPDES Permit Limit = 42 Lbs/day</b>
Deviation % (+/-)	-21.16	-22.42	14.77	Deviation % (+/-)	-65.98



# FAIRFIELD HILLS WTF

## EXECUTIVE SUMMARY

The staff continues to improve equipment and standard operating methods to prevent Fairfield Hills WTP failures. Well # 3 is offline presently and well # 7 is lead pump. The next step in the sanitary survey completion will be preparing the interior to be cleaned and painted. The step down transformer at well 7 wiring was completed as of 12/3.

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 Water treatment operations have resumed normal operations.

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

## OPERATION & MAINTENANCE

- Pick up generator at well#7 and refuel
- Aaron Ass. Installed and calibrated new flow meter at Parshall Flume
- Northeast Comm working at Bunker
- Put Well#3 off line and Well#7 as lead pump
- Flushing both lines at Fairfield Hills
- Replaced inserts for electrical for all manholes at Well#7

## 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	1
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	9	147
Corrective Maintenance	5	65
Emergency Maintenance	0	14

## FAIRFIELD HILLS WATER - FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	5	9
Hydrant Inspections	8	57
Service Inspections	0	26
Call-Before-You-Dig (CBYD)	1	69

## FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,956.67	\$4,613.64	\$10,886.36
Capital Repair and Replacement	\$20,000.00	\$2,508.15	\$21,690.23	-\$1,690.23

## WELL PRODUCTION

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2015	74,000	5,478,200		5,552,200
August 2015	810,000	5,592,100		6,402,100
September 2015	1,264,000	3,948,200		5,212,200
October, 2015	1,426,000	4,765,900		6,191,900
November 2015	479,000	4,198,000		4,677,000
December 2015	594,000	4,092,000		4,686,000
January 2016				
February 2016				
March 2016				
April 2016				
May 2016				
June 2016				
Monthly Average	774,500	4,679,067	#DIV/0!	5,453,567
Daily Average	19,161	132,000	0	151,161