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Fred Hurley,
Director

TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY

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

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

The Water and Sewer Authority held a regular meeting directly following its public hearing on June 11, 2015 at the Waste Water Treatment Plant, 24 Commerce Road, Newtown, CT. Chairman Brown called the meeting to order at 7:08pm.

Present: Dick Zang, Gene Vetrano, Marianne Brown, Carl Zencey, Alan Shepard, Lou Carbone, George Hill

Also Present: Director of Public Works Fred Hurley, Mike Burton, Kurt Mailman of Fuss & O'Neill, Wes Thompson and 2 members of the press

Public Participation - None

Approval of the Minutes – The previously distributed minutes of the regular meeting and public hearing meeting of 5/14/15 was approved. Alan Shepard abstained.

UNFINISHED BUSINESS

Hawleyville Sewer Extension – The sewer extension agreements to give to the property owners are almost ready. There will be a not to exceed benefit assessment dollar amount in that agreement, as well as a contracted maximum flow.

Grace Christian Fellowship will have plans soon for the Covered Bridge parcel, which includes approximately 180 units of Incentive Zone Housing. 90 Mt. Pleasant has an initial concept proposal of approximately 150 (IZH) units. We are going to have to re-investigate doing a feed to them from Mt. Pleasant. The potential benefit assessment would be larger than the cost for this change. The last major project area is the 100 acres parcel which does not have as much detail as the other parcels. The entity involved has done two medical buildings on Mt. Pleasant. They are considering about 300,000sf of commercial office space with a flow of approximately 40,000 gallons per day.

For design purposes, the WSA Regulations defines a unit as 125 (gpd) . But, the board feels more comfortable with higher gallons per unit for design purposes. Mr. Hurley articulated that Hawleyville is different than the central district; it has always been a negotiated district and the WSA board can set parameters.

5 School House Hill Road – Mr. Hurley does not have a final number for that project. The homeowner has a septic problem and they would need a grinder pump to hook up to the sewer system. He will try to

get a resolution by the next meeting. Mr. Zang moved to table action, Mr. Shepard seconded, motion unanimously approved.

4 Berkshire Road – The number of people in the sewer service area who are not connected that pay an administrative fee is minimal. There are 13 properties that are impacted. Some are vacant lots and some of homes that are not hooked up. They are paying about \$40 per quarter. Mr. Shepard moved to allow Mr. Hurley to wave the admin fees for the properties that are not hooked up to the sewer system in accordance with section 5.6 of the regulations. Mr. Vetrano seconded, motion unanimously approved.

Mr. Zencey moved to waved the penalty on the non-hooked up administration fees. According the regulations, this is good for one year. Mr. Hill seconded, motion unanimously approved.

10-22 Washington Avenue – Mr. Shepard has abstained from the discussion. Modified plans have been received from Mr. Burton which Fuss & O'Neill has reviewed. In conclusion, the revised documents submitted are suitable to handle the design wastewater flow of 3,000 gpd in a subsurface disposal system. Mr. Hurley explained that this is in the Aquifer Protection Zone (APZ) and that the Health Department would prefer that the parcels be connected to the sanitary sewers in light of their location in the APZ.

Mr. Vetrano moved to include 12 and 16A Washington Avenue into the sewer service area based on meeting the requirements of proposing a feasible subsurface disposal system and the Health Department recommendation that the parcels be connected to the sanitary sewer system because they are in the Aquifer Projection Zone. Mr. Zang seconded, motion unanimously approved.

Mr. Hurley stated that there is nothing in the plans now that do not meet the intent of the WSA Regulations for the entire project. The proposal also meets the intent of the Town with respect to the IHZ. Finally, the recommendation by the Health Department to include the overall project in the sewer service area because of its location in the APZ is consistent with all previous recommendations.

Mr. Hill moved to approve the preliminary project approval to develop 74 units of incentive zone housing for 10-22 Washington Avenue subject to approval from other town agencies, Mr. Zang seconded. Motion approved with one abstention (Shepard).

NEW BUSINESS

6 Washington Avenue – Mr. Shepard abstained from the discussion. This is the redevelopment at 6 Washington Avenue. There is a building in back that needs a benefit assessment and then a public hearing will need to be scheduled.

Mr. Zang moved to have Mr. Hurley obtain an benefit appraisal for 6 Washington Avenue from Fazio and Karin, LLC, Mr. Zencey seconded, motion unanimously approved.

170 Mt. Pleasant Road – The benefit assessment came in at \$236,000. Mr. Zencey moved to have the public hearing on July 9, 2015. Mr. Shepard seconded, motion unanimously approved.

Committee Reports – Regulations – Mr. Zang presented the June 10, 2015 DRAFT which represents how the regulations would appear on the website. The primary purpose of the redraft is to better bring the regulations in line with the State General Statutes and regulations of various state agencies. Once the draft is final with the WSA, then it needs to go to the town and the Town Attorney for review.

Solar – Mr. Hurley received a proposal from Sound Solar to revamp the existing Opel system. They are proposing a cost of \$10,000 to revamp the entire solar system. The solar panels will be placed in a stationary position to relieve the previous maintenance nightmare. The board concurred with moving forward.

Sewer Service Area Mapping – Mr. Mailman is working with GIS. Mr. Hurley explained that we want availability for access online. Mr. Zang provided guidelines from DEEP as to what should be included in the map.

Report by United Water Environmental Services – Attached

Report by Public Works Director – There was a huge lightning strike last weekend that hit the electric lines for well 7. This in turn knocked out the booster pumps and the ability to pump water to the reservoirs. Water was tankered to the reservoirs so that at no time did customers get impaired water, lose pressure or have interrupted services. This will be an insurance claim but we do not know the extent of reimbursement. Repairs included new electrical wires to well 7, a new transformer and rebuilt booster pumps.

Adjourned 8:53pm

Arlene Miles, Clerk



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

EXECUTIVE SUMMARY

During the month of May the plant process performed well. Nitrogen average pound per day during the month was **13.0lbs**. The open channel flow meters have been removed from each location at a cross lot manhole on Taunton Lake Dr. coming from Diamond Dr. and directly prior to the Taunton Lake pump station. Over 8400 feet was jetted by public works and the lower portion was video inspected.

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 1st 2015 – September 30th.

The main focus during the month of May 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 and tests remains

SOLAR

Not operating

- **Solar panels waiting for repair from service technician.**
- **Sound Solar may be our new service technicians.**

SEWER PLANT - OPERATIONS & MAINTENANCE

- Replaced battery in town truck and lawn mover
- Replaced brushes on Clarifier #1
- Repaired hydrant where Synagro loads the truck
- Wash down sludge loading area
- Attended Safety Meeting
- Cleaned and greased around storm drain on side of Filter Building
- Cleaned basement in Filter Building
- Collected a sludge sample for Synagro
- Recalibrated chlorine meter and adjusted chlorine
- Cleaned lab and prepped for paint
- Scrubbed down scum and algae on Clarified #2 and replaced brushes
- Cleaned weir on Clarified #2
- Greased GBT and TWAS pumps.
- Greased and checked belts for WAS & RAS pumps - tightened belts for RAS pump#1
- Knapp Engineering worked on UV system
- Hung a communications white board and cork board in hallway

COLLECTION SYSTEMS –

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

- Replaced grinder pump at 16 Bend Drive
- Butterworth and Scheck repaired manhole on corner of Washington and Church Hill
- Pulled grinder pump at Rand & Whitney and Moran Environmental - chemical found in wet well
- Back flushed pump #1 at Sandy Hook
- Opened four manholes on West Street for Burns Construction
- Called Knapp Engineering for Hawleyville Pump Station – pump #1 and pump #2
- Pulled pump #2 at Hawleyville and pulled rags out of pump
- Precision alarm hooking up fire alarm to SCADA
- Replaced grinder pump at 40 Hanover Road
- Knapp Engineering worked at Hawleyville Pump Station
- Checked sink hole at Saint Rose church. (not ours)

ODOR ABATEMENT

No odors this month.

STAFFING

We are presently fully staffed for the month of May.

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)	32,500	40,625 gal/mo 2 loads/wk	.337 MG	0.527 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.22	5.00	4.69	10,170

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	0	4

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	29		155
Corrective Maintenance	21		113
Emergency Maintenance	1		4
Call-Before-You-Dig (CBYD)	38		161

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	*****	*****
Other	Monthly Qty	Total for Yr	Contract	Amount Left
Manhole Inspections	0	49	*****	N/A
Grinder Replacements	2	8	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
Power Failures	0	0	0	0	0	0
Number Callouts	0	0	0	0	0	0
Maintenance & Repair	0	0	0	0	1	0
Flow (Total MG)	.121	.343	1.928	.532	.614	4.597
(Avg. Daily GPD)	3,920	11,082	62,202	17,178	19,810	148,298

FINANCIAL STATUS – MAINTENANCE

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

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	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	
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				November 2015	
June 2015				December 2015	
Monthly Average	0.460	734	681	Calendar Year to Date Average	17.93
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 % (+/-)	-13.26	-26.47	-3.02	Deviation % (+/-)	-57.29

FAIRFIELD HILLS WTP

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. The water treatment plant operated very well in April.

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.

We presently are still under standby power at well 7 and have replaced 1800 feet of the feeder line with approximately 2000 feet remains to be replaced.

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

- Flushed Hydrant by Military Dogs
- Opened water hydrants next to ball field
- Turned water on for Parks and Recreation at dog park
- Installed backflow on hydrant for Parks and Recreation
- Cleaned grit from flume
- Precision alarm replaced panel at Taunton Lake
- Hand delivered FFH 2014 Annual Water Report to all clients
- Weed wacked ground around flume
- Low level alarm at bunker – well #7 had voltage loss on one phase. Called Huntington Power which brought a generator
- Opened valve for water irrigation system at Youth Academy ball field
- Flushed the entire Fairfield Hills distribution.

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	11	51
Corrective Maintenance	4	10
Emergency Maintenance	1	3

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)	18	35

FINANCIAL STATUS – MAINTENANCE

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

WELL PRODUCTION

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2014	456,000	6,014,500	0	6,470,500
August 2014	1,000	5,589,800	0	5,590,800
September 2014	0	6,124,500	0	6,124,500
October 2014	0	6,215,200	0	6,215,200
November 2014	93,000 ***	2,257,500 ***	0	2,350,500 ***
December 2014	889,000	6,019,600	0	6,908,600
January 2015	0	3,674,700	0	3,674,700
February 2015	0	7,070,400	0	7,070,400
March 2015	0	4,430,500	0	4,430,500
April 2015	0	5,154,400	0	5,154,400
May 2015		3,608,900	0	
June 2015			0	
Monthly Average	143,900	5,105,455	0	5,236,273
Daily Average	0	116,416	0	116,416

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