

4 Turkey Hill Road
Newtown, CT 06470
Tel (203) 270-4300
Fax (203) 426-9968



Richard B. Zang,
Chairman
Marianne Brown
Louis Carbone
Richard Conte
Alan Shepard
Eugene Vetrano
Carl Zencey

Fred Hurley,
Director

TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY

The Water and Sewer Authority held its regular meeting on January 12, 2012 at the Waste Water Treatment Plant, 24 Commerce Road, Newtown, CT. Chairman Zang called the meeting to order at 7:00pm.

Present: Richard Zang, Carl Zencey, Gene Vetrano, Marianne Brown, Alan Shepard

Absent: Lou Carbone, Richard Conte

Also Present: Director of Public Works Fred Hurley, Jason O'Brien and Julio Segarra of United Water Environmental Services and one member of the press.

Public Participation – NONE

Approval of Minutes – The previously distributed minutes of the regular meeting of 12/8/11 were unanimously approved.

OLD BUSINESS

Gallons processed vs gallons billed study/flow monitoring – The indication is that the rain is influencing to some degree. One meter has been moved to isolate the Taunton area the other meter will remain on Commerce Road.

Capital Needs – SCADA system, new well – The new well is still on hold. The SCADA system/Fred Hurley spoke with CH2Mhill and they are working on the scope and it should be done in the next week.

Fairfield Hills sewer service area – This is discussed under New Business/Water Pollution Control Plan

Renewable Energy Project – Wetlands will give the official sign off at their next meeting which is two week. Many of the parts for the project are already here. None of the project is in wetlands however; a fence on the west end will go through it.

NEW BUSINESS

2012 Budgets – Julio Segarra provided an updated WSA improvement plan. For the water side the largest item is the back-up generator. Fred explained that there is movement at the state level from the Department of Public Health. There may be some grants or group purchases available. The Fire hydrant replacements, new well and the SCADA system are the major expenses expected in 2012.

For the sewer side, the grinder pump generator transfer switch has been added to the list.

Rec'd. for Record 1-17 2012
Town Clerk of Newtown 8:30am
Debbie A. Aurilio

Dick Zang made an updated budget by Object Code to match with the Finance Department. Alan Shepard articulated that he doesn't believe that the Hawleyville sewer Phase 2 and Fairfield Hill sewer replacement should be in the WSA 5 year capital plan. By having it in the plan it insinuates that they are going to do. They will probably be the driving force to get something done; however, they should not be the financial force. Alan Shepard moved to accept the budget and forward it to the Finance Department. Marianne Brown seconded, motion unanimously accepted.

Amendments to Water Pollution Control Plan – A copy of the draft is attached (*Attachment A*). The major change is to take out the priority list and adding in the Hawleyville district.

Report by United Water Environmental Service, Inc. – A copy of the December Monthly Operating Report is attached (*Attachment B*). The water supply plan is a week or two away from completion.

Report by Public Works Director – Reported above in discussions.

Any other business – NONE

Having no further business meeting was adjourned at 8:00pm

Arlene Miles, Clerk

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**TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY**

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~~Phil Cruz~~ Vetrano
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WATER POLLUTION CONTROL PLAN

Amended 8/13/2009 1/12/2012 Draft

I. Authority and Purpose

The Newtown Water Pollution Control Authority was established as an agency of the Town by Ordinance 56, adopted by the Legislative Council on May 7, 1980, in accordance with Chapter 103 of the Connecticut General Statutes and redesignated as the Water and Sewer Authority ("WSA") by Ordinance 56A adopted by the Legislative Council on April 7, 2004.

The WSA hereby establishes this Water Pollution Control Plan for the Town of Newtown. The purpose of the plan is to designate and delineate the boundaries of areas to be served by Town sewers and areas where sewers are to be avoided and to describe the policies and programs to be carried out to control surface and groundwater pollution control problems.

II. Facilities Plans

At a Town Meeting in March 1992, the Town accepted the recommendations for wastewater treatment as described in the "Town of Newtown, Connecticut Water Pollution Control Facilities Plan" dated September 1989, as amended by "Addendum #1" dated September 27, 1990 and "Addendum #2" dated October 10, 1991, prepared by Consulting Environmental Engineers, Inc. of West Hartford, CT.

The Town had rejected the original version of the Facilities Plan in 1989 and the first amended plan in 1990. Each of the two addenda scaled back the sewer service area based on lot-by-lot surveys undertaken by members of the Health Department and the WSA.

The plans for wastewater treatment were modified by the State/Town Intergovernmental Sewerage Agreement which calls for the discharge of sanitary sewage from State facilities into the Town plant. During design other plan improvements were made including the elimination of the need for four pump stations and a community treatment facility at Treadwell Park.

The wastewater treatment facility serves the central sewer service area consisting generally of the Borough, an area north of Taunton Pond, a portion of Sandy Hook, State-owned properties, and, as a result of the 2004 property transfer from the State to the Town, the Fairfield Hills ~~sewer service area~~ campus.

Additional treatment capacity for economic development is available in the Hawleyville area as a result of interlocal agreements with Danbury and Bethel, CT. The Hawleyville Area Facility Plan prepared by Fuss & O'Neill Inc. Consulting Engineers of Manchester, CT was adopted by the WSA on November 12, 1998.

III. Sewer Avoidance

In January, 1978 the State Department of Environmental Protection published "A Report to the Joint Standing Committee on the Environment On the Establishment and Administration of a Municipal and Town Sewer Avoidance Program." The document served as a principal basis for the 1978 amendments to Section 7-246 of the Connecticut General Statutes that provided for the preparation of a Water Pollution Control Plan by municipalities. Sewer avoidance was recognized to be a desirable policy in rural communities where sewers do not exist and are not planned.

Based on Facilities Plan as amended, the WSA concludes that sewer avoidance is an appropriate policy for areas outside the sewer service areas as defined herein. The Town does not intend extend sewers to areas outside the sewer service areas and intends to control surface and groundwater pollution problems in these areas through aggressive administration of a sewer avoidance policy to the extent permitted by zoning regulations. This policy requires the support of all Town agencies to avoid future problems with onsite disposal.

IV. Policies and Objectives

In accordance with Town Policy, any new development outside a sewer service area shall not exceed the ability of the land on which it is located to support property subsurface wastewater disposal on site except where specifically permitted by zoning regulations. The design of such onsite disposal systems shall meet all current State and Town regulations, standards, and codes.

A sewer avoidance policy shall be adopted which shall promote the vigorous enforcement of technical standards for new and repaired disposal systems, the proper operation of disposal systems through public education, the monitoring of disposal systems and their effects on surface water and groundwater, and the identification of malfunctioning disposal systems and implementation of effective onsite repairs or alternative solutions.

The WSA adopted a priority matrix for the central sewer service area to ensure that the limited treatment plant capacity of 332,000 gallons per day ("gpd") can be allocated in a logical manner. As used herein, the terms existing and current refer to the adoption date of this matrix, April 28, 1994.

Priority	Allocation (gpd)	Allocation by type of development
1 st priority	260,000	Existing development within the sewer service area
2 nd priority	30,000	Potential development meeting current zoning within the sewer service area
3 rd priority	4,000	Existing development along sewer transmission routes
4 th priority	21,000	Existing development outside the sewer service area identified as areas of concern in the Facilities Plan and reasonably close to the sewer service area
5 th priority	17,000	Other existing development outside the sewer service area but in close proximity

V. Designation and Delineation of Sewer Service Areas

The ~~central~~ Central sewer ~~Sewer service~~ Service area ~~Area~~ includes all properties that were determined to require sewer service during preparation of the Facilities Plan. The outline of the area generally follows that shown on Plate 1 "Recommended Plan," dated September 3, 1991 of the Facilities Plan but it has been modified during design and by inclusion of the Fairfield Hills campus as a result of the 2004 property transfer from the State to the Town. The WSA hereby adopts and incorporates in this plan the central sewer service areas ~~area~~ as delineated on the map entitled "Sewer Service Area, Newtown Sewerage System," dated May 11, 1994 and any revisions or additions to sewer service areas on maps subsequently approved by the WSA.

The Hawleyville Sewer Service Area was established to encourage economic development of commercial and industrial parcels along Routes 6 and 25 south of I-84 exit 9. Sewer connections must be approved by the WSA and the Town. The sewer service area is connected to the Danbury Water Pollution Control Plant for sewage treatment and disposal as governed by agreements with the City of Danbury and the Town of Bethel. The WSA hereby adopts and incorporates in this plan the Hawleyville sewer service area as delineated on the map entitled "Hawleyville Sewerage District, Town of Newtown Sewerage System, Collection System Map" dated September 25, 2001 and any revisions or additions to sewer service areas on maps subsequently approved by the WSA.

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VI. Effective Date

The date of adoption shall be deemed the effective date of this Water Pollution Control Plan. This plan may be amended by the WSA with the approval of the Board of Selectmen. A copy of this plan and any updates shall be filed with the State Commissioner of Environmental Protection.

The original Water Pollution Plan was adopted on February 9, 1995 and previously amended on June 24, 1999 and August 13, 2009.

Date: _____ Amended: _____
Richard B. Zang, WSA Chairman

Date: _____ Approved: _____
Joseph BorstPatricia E. Llodra, First Selectman



MONTHLY OPERATING REPORT DECEMBER 2011 TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of December the plant process performed. Nitrogen removal has improved. The average pound per day during the month was 22 lbs. The open channel flow meter has been removed from the Grand Place location. It is being cleaned and inspected prior to it being installed at the new location. The meters are to be installed at a manhole on Main Street near School House rd. and Commerce Road. Taunton Lake will be our next areas of focus. The SCADA bid results is in final contract negotiations. Hanover Pump station generator has been repaired and is now in service.. 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.
- Inspected and adjusted sludge pumps in the thickener building..
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Greased gravity belt thickener.
- Inspected and cleaned polymer system.
- Cleaned secondary tanks 1&2 draft tubes.
- Cleaned gravity belt thickener belt.
- Replaced upper and lower bearings on the grit agitator drive motor.
- Placed #2 Secondary Clarifier in service.
- Performed service and inspection of the heating system in the headworks building.
- Replaced a bad coil to a solenoid on the rotomat.
- Ordered replacement fuses for the PLC to the rotomat.
- The rotomat needs some major work performed. (Scheduled with Kovacs Construction).
- Serviced and cleaned both Influent and effluent samplers.

PUMP STATIONS

- Replacement parts ordered for the Hanover pump station Generator. Repair was done on Tuesday December 13th.
- Sandy Hook pump station scada system does not report back to the plant. Unable to gain access to the pump station Bristol Babcock software. (Password protect system)
Installing a temporary alarm notification system (Precision alarms) at Sandy Hook pump station. Complete

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	0.102MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.41	4.49	4.45	12,067

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	1	9
Plant	0	21
Odor	0	0
Grinder Systems	0	9

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	131
Corrective Maintenance	4	124
Emergency Maintenance	0	28
Call-Before-You-Dig (CBYD)	66	211

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	5	18	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

PUMP STATIONS

Station	Baldwin	Hanover	Sandy Hook	Taunton Lake	Hawley-ville	Fairfield Hills Metering
Number Inspections/Mo.	8	8	8	8	8	8
Service Failures	0	0	0	0	0	0
Number Callouts	0	1	0	0	0	0
Maintenance & Repair	0	1	3	0	0	0
Flow (Total MG)	0.138	.494	2.03	.678	0.559	6.587
(Avg. Daily GPD)	4,478	15,955	65,500	21,899	18,661	212,505

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$5,264.88	\$38,900.28	\$16,099.72
Capital Repair and Replacement	\$95,000	\$87,089.18	\$152,531.50	-\$57,531.50

FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2011	.381	663	612	January 2011	29
August 2011	.467	944	849	February 2011	36
September 2011	.638	910	860	March 2011	32
October 2011	.615	998	687	April 2011	12
November 2011	.546	903	793	May 2011	12
December 2011	.639	1096	1165	June 2011	6
January 2012				July 2011	4
February 2012				August 2011	11
March 2012				September 2011	22
April 2012				October 2011	29
May 2012				November 2011	28
June 2012				December 2011	22
Monthly Average	.548	919	828	Calendar Year to Date Average	20
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 = 19 Lbs/day
Deviation % (+/-)	3.4	-8	17.8	Deviation % (+/-)	5.3

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 <50 gallons per minute. The water treatment plant operated very well in December.

The Water Supply Plan is near completion.

There was no flushing of the lines at Fairfield Hills during the month of December.

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

OPERATION & MAINTENANCE

- Inspected and made adjustments as needed.

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

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	8	34
Corrective Maintenance	0	0
Emergency Maintenance	0	0

FIELD OPERATIONS

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

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$844.37	\$10,383.93	\$5,116.07
Capital Repair and Replacement	\$20,000.00	\$0.00	\$1,785.76	\$18,214.24

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2011	1,166,000	4,733,800	0	5,899,800
August 2011	990,000	4,258,900	0	5,248,900
September 2011	950,000	4,299,000	0	5,249,000
October 2011	1,008,000	4,960,700	0	5,968,700
November 2011	663,000	3,413,900	0	4,076,900
December 2011	731,000	4,019,700	0	4,750,700
January 2012			0	
February 2012			0	
March 2012			0	
April 2012			0	
May 2012			0	
June 2012			0	
Monthly Average	918,000	4,281,000	0	5,199,000
Daily Average	23,580	129,667	0	153,248