

**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING MINUTES
OCTOBER 17, 2013**

Vice Chairman Rimas Balsys called the regular meeting to order at 6:07 PM with the following in attendance:

MEMBERS:

Rimas Balsys, Vice Chairman
Pat Mallane
Catherine Aresta, Secretary

OTHERS:

Jim Stewart, Public Works Director
Debbie Lichwalla, WPCA Secretary
John Batorski, Veolia

ABSENT: Ron Merancy, Chairman

VISITORS:

Attorney Ned Fitzpatrick
George Pendleton, Kleinfelder
Larry Edwards, of J. Edwards & Associates, LLC
Mario Olivieri, Owner of Property on Spruce Drive

1. **Rimas Balsys opened the meeting with the Pledge of Allegiance.**
2. **Executive Session with Borough Attorney Ned Fitzpatrick Regarding Veolia Contracts.**

Executive Session.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ENTER** into Executive Session Inviting in the Borough Attorney Ned Fitzpatrick and James Stewart at 6:07 P.M.

VOTE: In Favor: 3 Opposed: 0 Abstained: 0
Motion Carried: 3-0-0

VOTED: Unanimously on a motion by Catherine Aresta and seconded by Rimas Balsys to **EXIT** out of Executive Session and **Reconvene** into the Regular Meeting at 6:15 P.M.

VOTE: In Favor: 3 Opposed: 0 Abstained: 0
Motion Carried: 3-0-0

WPCA Regular Meeting Minutes – October 17, 2013

3. New Business and Correspondence.

A. Commission Discussion Regarding The Proposed Sewer Relocation Plan for Spruce Drive with Engineer, Larry Edwards for Applicant Mario Olivieri.

Project: #0 Spruce Drive Sewer Relocation

Comments: James Stewart, P.E. & L.S., Director of Public Works

The applicant Mario Olivieri is proposing to relocate an 8” sanitary sewer at 0 Spruce Drive in order to create a building lot.

1. Show the existing and proposed easements on the plan.
2. Provide copies of the existing and proposed easements for review and approval by the WPCA and the Board of Mayor and Burgesses
3. Provide details matching the Standard Town Details Including SMH, Trench, and Frame and Cover.
4. Provide notes on removal/ abandonment of existing sewer line.
5. Show lateral connection for proposed home site and detail.
6. All Sewer connection fees shall be paid prior to applying for a building permit.
7. The construction shall comply with the Borough of Naugatuck Ordinances and the Water Pollution Control Authority “Standard Conditions for Sanitary Sewer Extensions and Sanitary sewer Construction.

Attorney Fitzpatrick commented and requested a legal description and easement.

Jim Stewart commented that the applicant should come back to discuss any other changes to the existing plan.

B. Commission Discussion Regarding 113 Beacon Valley Road with Attorney Fitzpatrick.

Attorney Fitzpatrick commented on a letter written by Jacqueline Hawes, the owner of 113 Beacon Valley Road. Ms. Hawes is in the process of refinancing her mortgage and would like the Water Pollution Control Authority to work with her and come to an agreement to help satisfy the delinquent balance on her sewer usage account and to remove the lien.

Attorney Fitzpatrick commented that he was waiting to hear back from her Attorney to discuss what the current principal balance of her mortgage is and what the principal amount being requested for a new mortgage will be. The discussion between Attorneys’ would be in regards to subordinating a lien to a new mortgage.

The Commissioners agreed to wait for Attorney Fitzpatrick to receive more information before making a decision.

WPCA Regular Meeting Minutes – October 17, 2013

Attorney Fitzpatrick also commented that they have sent out demand letters on nine other properties in Beacon Falls to give homeowners a chance to pay on their account before liens are placed.

C. Commission Discussion Regarding Waterbury Municipal Agreement with Attorney Fitzpatrick.

Attorney Fitzpatrick commented that this is regarding an agreement which is dated 1985 and is a 25 year agreement expiring in 2010.

Jim Stewart commented that they started building the sewer in 2012 and it takes 3 years to design and construct it, therefore, the agreement really started as of the date the sewer was built in 2012.

Attorney Fitzpatrick commented that the agreement expired and essentially what happens is that there is a sharing of obligations. They want us to renegotiate the components of the agreement which includes Operations and Maintenance. They want us to pay toward a percentage of upgrades to their plant meeting various ways to justify what the planning, design and construction includes.

Attorney Fitzpatrick commented that no vote is required for now. Discussions and updates will continue.

D. Correspondence from Chemtura Dated June 25, 2013 Regarding the Discharge Monitoring Report for May 2013.

No Discussion.

E. Correspondence from Chemtura Dated July 26, 2013 Regarding the Discharge Monitoring Report for June 2013.

No Discussion.

F. Correspondence from Chemtura Dated August 27, 2013 Regarding the Discharge Monitoring Report for July 2013.

No Discussion.

G. Correspondence from Chemtura Dated August 28, 2013 Regarding the Annual Monitoring Report for the Naugatuck Water Pollution Control Facility Effluent – Permit SP0000065.

No Discussion.

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H. Correspondence from DEEP Dated August 13, 2013 Regarding the Wastewater Infrastructure Improvements for Fiscal Year (FY) 2014 and (FY) 2015 Clean Water Fund Priority List.

No Discussion.

I. Correspondence from DEEP Dated August 14, 2013 Regarding Notice of Sale of Equivalent Nitrogen Credits.

A check was received on August 22, 2013 in the amount of \$39,499.00 from CT DEEP regarding the sale of equivalent nitrogen credits.

J. Commission Discussion Regarding the Municipal NPDES Permit with Correspondence from DEEP Regarding the Municipal NPDES Permit “DRAFT” Facility ID: 088-001, Permit ID: CT0100641.

Jim Stewart commented that they met with engineers and people from Veolia to review the draft permit. They had questions on the arsenic, phosphorus, copper, temperature and other items. They made significant changes in the permit concerns and will get back together in the next few weeks to discuss it. They need the permit to be issued and advertised shortly.

4. Old Business.

A. Commission Discussion Regarding The Wastewater Facilities Study Plan.

George Pendleton of Kleinfelder advised the commission of an update. George commented that they are working with Veolia and have had several meetings and discussions regarding small changes to the amendment for additional analysis for the preliminary arsenic sampling.

An additional discussion related to the Waterbury Sludge Sewage Swap. Waterbury brought CDF Smith on board to study their end and Kleinfelder has a scope worked out to study their end.

The draft odor report had comments from the Borough and is being revised and will be reviewed when ready by the Borough for any other comments. Kleinfelder is still working on the I/I study and mentioned that it will be progressing in the next couple of months. Discussion and updates to follow.

WPCA Regular Meeting Minutes – October 17, 2013

5. Acceptance of Regular Meeting Minutes for June 20, 2013.

VOTED: Unanimously on a motion by Catherine and seconded by Rimas Balsys to **ACCEPT** the Regular Meeting Minutes for June 20, 2013 with one minor change in regards to changing the vote to 2 and the abstained vote to “0”.

VOTE: **In Favor: 2** **Opposed: 0** **Abstained: 0**
Motion Carried: 2-0-0

Minutes Approved.

6. Following are the WWTF Monthly Operations Summary Reports.

- A. Monthly Operations for June 2013.**
- B. Monthly Operations for July 2013.**
- C. Monthly Operations for August 2013.**
- D. Monthly Operations for September 2013.**

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Monthly WPCF Report June 2013
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P1

This report summarizes the activities at the Borough POTW for June 2013:

1. Highlights and Significant Issues: Please refer to the report.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports and graphs for additional performance details.

Plant Process Data	Limit	Actual
Total Suspended Solids (mg/l)		
Influent Avg.	-	187
Effluent Avg.	30	5
Removal Efficiency	85%	97%
Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	96
Effluent Avg.	30	4
Removal Efficiency	85%	97%

	Naugatuck	Middlebury	Oxford	OTR
June Flow Avg. (MGD)	7.0	0.999	*	N/A
Sludge Liquid Total (MGal)				3338.0
Sludge Cake Total (Wet Tons)				5900.01
Septage Total (MGal)	50,275	67,000	165,950	687,000
Discharge Permit Exceedance: None				

* Unavailable at time of report.

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	1
Lost Time Accidents	0	1
Odor Complaints	1	8
Unconfirmed Odor Complaints	0	1

1. Compliance & Regulatory Issues

- a. There was one recorded Odor Complaints for June 2013.
- b. Lou Santos, CTDEEP Air Inspector visited the plant on June 18, 2013 to inspect the WESP repairs. As a result of his visit, he stated he would recommend closing the NOV for the WESP. During his visit he stated he was downwind of the facility for approximately 1 ½ hours and did not detect any odors. He also stated he observed no odors on site during the WESP inspection.
- c. The annual stack test is being scheduled for late Sept. 2013. CK Environmental will prepare the ITT to CTDEEP.
- d. Kleinfelder and TRC staff spent several days on site during the month evaluating the odor control equipment and incinerator emission equipment.

2. Personnel

- a. No report.

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3. Health & Safety

- a. Ellen Murray, Deputy Fire Chief of Naugatuck toured the plant on June 18. We have a Power Point presentation for the fire department depicting the locations of all chemicals, fire hydrants, and switchgear. During July the entire department will tour the facility on three dates. A copy of the Power Point is attached for reference.

4. Operational Information

- a. Replacement aeration diffusers are on site and installation is being planned for the month of July.
- b. On June 14, the average daily flow was 14.5 MG. Flows peaked that day to 20.2 MG! Normal average daily flow is 5 MG. There were 4 days that average daily flows exceeded 10 MG. Monthly average flow was 7.0 MGD as opposed to historical average flow of 5.0 MGD. The abnormal flows were the result of heavy rainfall and increased the lbs. /day of nitrogen.

5. Collections

- a. The Inwood Avenue pump station control panel required replacement. The replacement panel was ordered at approximately \$14,000.
- b. The original Plattsmill pump station control panel requires replacement. We are requesting quotes to replace that panel.
- c. The annual cost to jet the sewers has been calculated and will be reported in the annual report. The contract year average hourly wage for the collections employees, multiplied by a conservative 1.5 benefit rider, multiplied by 8 hours per day, provides the daily cost for those two employees. The vac truck annual maintenance and fuel costs for the contract year are divided by 12 to provide an average monthly cost. The collection system personnel average daily cost is multiplied by the number of days the vac truck was used in each month. That total cost (labor and vac truck maintenance and fuel) is divided by the number of feet of sewer that was cleaned in that month. This method of calculating the flushing provides a cost range of approximately \$0.71 to \$0.90/foot range over the last 4 years. Since the crew frequently uses the CCTV camera when jetting, this cost would include the camera services as well. The CCTV cost could be added as a separate line which would increase the overall cost. In addition, overtime is also not shown in the average flushing cost. The total cost average flushing /CCTV over the last 4 years averages approximately \$113,000 per year.

6. Maintenance

- a. Spirac VC4 (Vertical Conveyor) broke on May 30. VC1 broke on June 5, 2013. Critical Spirac spares were ordered at a cost of \$37,143.
- b. Spare impellers and a seal kit was ordered (fits either new ABS pump) for the new raw sewage pumps as critical spares for \$5,807.
- c. Aeration tank 3B internal recycle pump failed on June 16, 2013 and the spare pump installed. Repair costs were unavailable at the time of the report.
- d. The expansion joints for the aeration tank air headers are starting to deteriorate. Replacement expansion joints are expected to cost approximately \$4000 and were ordered.
- e. One primary tank remains out of service for repairs. We anticipate the tank repairs to be complete the week of July 12, 2013. The tank required a complete rebuild (chain, flights, wear shoes, support brackets, and wear strips).

f. Critical spare Abel parts (sludge feed pumps) have been ordered at a cost of \$25,900.

g. The north J Spin was sent to Centrysis for evaluation. This centrifuge has not had repairs since 2007. Repair costs are \$66,000 and a PO was issued for repairs.

h. On June 17 the main electrical breaker for the incinerator opened. We could not find a reason why it opened. That event triggered a series of problems when the breaker was reset.

- i. The CEM sample pump UPS failed and was replaced.
- ii. The CEM sample pump itself failed. When the sample pump was changed, there was moisture in the sample line.
- iii. The CEM CO analyzer failed and was replaced by CK Environmental.
- iv. The incinerator purge air blower tripped out.
- v. On Wednesday, June 19 the sludge feed port to the incinerator failed. All new sludge feed ports were installed (~\$13,000). Upon restart, there were numerous issues with the fluidizing air blower. The PLC was faulted out. A control fuse for the FAB I/O module was blown, timing relay failed, another 110v pilot relay also failed. In addition, the soft start was changed (it also had a fault).
- vi. The actuator for the hot oil temperature control valves failed on June 20, 2013.
- vii. The PLC processor board for the North Abel failed and was replaced.
- viii. The VFD for the air compressor cooling fan failed on Monday June 24. Repairs are scheduled.

6. Capital Projects

- a. The Pillar turbo aeration blowers arrived July 5, 2013. The week of August 12, 2013 has been scheduled by Pillar to have their controls expert on site. Their person, from Bosnia will work with our SCADA person to make certain the new blowers operate as designed. Installation for the piping, conduits and new breaker has started.

**Borough of Naugatuck
Collections Systems Report
Jun-13**

Calls for Service:	This Month	Contract
	4	Year to Date
1 66 Olive Street		23
2 61 Olive Street		
3 147 Morning Mist Road		
4 49 Deering Lane		

Calls Caused By Collection System:	Reason
1 61 Olive Street	When flushing line for call to 66, water came up from toilets.
Line Flushing (feet)	

Date		This Month	Year to Date
		13980	141715
		Feet	Feet
4	Nicholes Road	400	
		325	
		300	
5	Olive Street	300	
9	Morning Mist Road	360	
		200	
11	Irving Street	290	
		310	
		625	
12	Lynn Circle	140	
	Deering Lane	360	
		120	
	Phyllis Drive	285	
		230	
		250	
		200	
		185	
13	Deering Lane	175	
17	Bridal Trail Drive	375	
		105	
		200	
		275	
	Stoneybrook Road	175	
		190	
		210	
19	Partridgetown Road	325	
		245	
20	Fairfield Court	200	
		225	
	King Street	410	
		275	
		235	
		135	
25	Crown Street	6 Month 190	
		6 Month 285	
26	Allen Street	185	
		225	
		185	
		575	
		385	
	Heritage Drive	400	
	Ash Street	245	
		665	
28	Brennan Street	6 Month 480	
	Cherry Street	6 Month 365	
	High Street	6 Month 275	
	Porter Ave	6 Month 160	
	Spring Street	6 Month 500	
		6 Month 225	

		Year to Date
Root Treatment (chemical or simply use of root cutter)	0	5715
1 None this month		

Line TV (feet)	This Month	Year to Date
	200	1850
1 Olive Street	200	
2 Morning Mist Road	400	

- Pump Station Cleanings:**
- 1 6/5/2013 Landscaping at Maple & May
 - 2 6/17/2013 Cleaned float at Platts Mill due to low level alarm
 - 3 6/18/2013 Landscaping work at Inwood, Horton Hill, and Platts Mill
 - 4 6/19/2013 Landscape work at Hop Brook and Platts Mill
 - 5 6/24/2013 Vacced and cleaned tank at Inwood. Landscaping at Maple & May

- Pump Station Inspections:**
- 1 6/3/2013 Checked all 5 stations because of heavy rain
 - 2 6/7/2013 Checked all 5 stations
 - 3 6/14/2013 Checked all 5 stations
 - 4 6/21/2013 Checked all 5 stations
 - 5 6/27/2013 Checked all 5 stations

Vac Truck Information				
Days Out In Use	This Month	Remaining		YTD
Contract	13	-7		157
150				

Fuel Information	Fuel Cost	Fuel Used			
	\$228.00	54.3	Gal	Total Year to Date Gallons	
	\$123.00	123.0	Gal	1213.8	Gal
			Gal	Total Year to Fuel Date Cost	
This Months Total	\$351.00	177.3	Gallons	\$6,137.00	

vac truck	Mileage	YTD	Engine Hours	
	Month Start	164404.4	Month Start	4385.9
	Month End	165117.3	Month End	4432.5
	Total	712.9	Total	46.6

Utility Truck	Fuel Cost	Fuel Used		Total Year to Date
Fuel Information	\$110.00	28.836	Gal	Year Date Gallons
	\$120.00	28.578	Gal	532.022
			Gal	
	\$230.00	55.414	Gallons	Year to Date Fuel Cost
				\$2,319.14

- 6/1/2013 Called in to repair header on airation blower because no maintainence personel could be contacted. Cleaned vactor truck in preperation for Duck Day.
- 6/2/2012 Dack Day event
- 6/3/2013 Finished May monthly report. Ordered parts from Family Ford.
- 6/4/2013 Picked up parts at Family Ford.
- 6/5/2013 Went to buy new weed wacker head and repaired it.
- 6/8/2013 Weed wacked about half of lagoon hill. Fixed May report. Printed and went over past few years reports with RS for the work orders that were open for collections.
- 6/7/2013 Picked up paint supplies for plant.
- 6/10/2013 Vacced Primary Clairifier skimmings. Marked laterals on Morning Mist Road where we were doing CCTV work.
- 6/11/2013 Helped Sibby's Automotive figure out if storm drain was leaking into their shop.
- 6/13/2013 Tried to vac out drains by polymer pumps that were plugged.
- 6/17/2013 1 load of Primary Clairfier skimmings vacced from tank.
- 6/18/2013 Purchased new lawn mower and weed wacker for landscaping.
- 6/19/2013 Vacced and cleaned Primary Clairfier tank sump.
- 6/26/2013 Repaired strap that holds reel on vac truck up.
- 6/27/2013 Typed Jun monthly report. Made new binder for next fiscal year that we put our records in.

Borough of Naugatuck
Monthly WPCF Report July 2013
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This report summarizes the activities at the Borough POTW for July 2013:

1. **Highlights and Significant Issues:** Please refer to the report.
2. **Collection System Update:**
Please see attached Collections Report.
3. **Plant Performance Summary:**

Please see the attached reports and graphs for additional performance details.

Plant Process Data	Limit	Actual
Total Suspended Solids (mg/l)		
Influent Avg.	-	238
Effluent Avg.	30	6
Removal Efficiency	85%	97%
Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	165
Effluent Avg.	30	4
Removal Efficiency	85%	98%



	Naugatuck	Middlebury	Oxford	OTR
July Flow Avg. (MGD)	4.6	0.535	*	N/A
Sludge Liquid Total (MGal)				3674.5
Sludge Cake Total (Wet Tons)				6190.2
Septage Total (MGal)	45,335	55,000	147,250	762,250
Discharge Permit Exceedance: None				

* *Unavailable at time of report (new flowmeter installation).*

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	1
Lost Time Accidents	0	1
Odor Complaints	2	10
Unconfirmed Odor Complaints	0	1

1. Compliance & Regulatory Issues

- a. There were two recorded Odor Complaints for July 2013.
- b. The annual stack test is being scheduled for Sept. 17-19, 2013.
- c. NOV 17013 for the WESP has been closed by CTDEEP. A letter (attached) dated July 5, 2013 from CTDEEP confirms the closure of that NOV.

2. Personnel

- a. One employee was terminated July 25, 2013 for not adhering to attendance policies.

3. Health & Safety

- a. The Naugatuck Fire Department toured the facility Thursday, July 11, 18, 2 and 31. They were given handouts depicting locations of the chemical storage tanks, switchgear, and critical equipment.
- b. Two Borough personnel attended the OSHA 10 training on July 15th and 16th along with 6 Naugatuck staff and one person from the Gloucester project.

4. Operational Information

- a. Replacement aeration diffusers were installed in aeration tanks #2 and #3.
- b. The #2 Primary tank repairs are almost complete. Basically, the entire collector mechanism was rebuilt (bottom wear strips, new return rails and support

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Monthly WPCF Report June 2013
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brackets, new chain, new sprockets, and new shear pin hubs). In addition, the grease scum troughs were replaced as the original troughs had holes in them.

5. Collections

a. The original Plattsmill pump station pump rails require replacement at an estimated cost of \$7800. The original rails are severely corroded. This is the last pump station that requires new rails.

6. Maintenance

a. Caldon and G&L contractors have been used to augment maintenance as they are short two personnel. Overtime has also been used as need to keep up with plant maintenance during this period.

b. The main bearings on the silo bottom conveyors require replacement. That job will be contracted out to Northeast Water.

c. The expansion joints for the aeration tank air headers have been replaced on tanks #2 and #3.

d. The north J Spin was sent to Centrysis for evaluation. Repairs cost \$66,000.

e. Work continued on primary tank repairs.

f. The internal recycle pump was changed in the aeration tank #3.

6. Capital Projects

a. The Pillar turbo aeration blower project is on schedule for an Aug 12, 2013 startup. The piping and electrical work for that project should be complete by Aug 8, 2013.

High Velocity Cleaning			
	Street Name	Date	Footage
1			
2	Clearview Circle	2nd	295
3		2nd	200
4		2nd	100
5	Galpin Street	2nd	155
6	Brighton Road	10th	310
7		11th	185
8		11th	200
9	Lantern Park Easment	11th	225
10		23rd	300
11		23rd	425
12		23rd	500
13	North Main Street	23rd	200
14	Moonlight Circle	2nd	775
15		24th	375
16	Moonlight Circle Easment	24th	400
17	Morning Mist Road	24th	270
18	Rustling Reed Road	24th	415
19	Fox Run Drive	25th	350
20	Rustling Reed Road	25th	615
21		25th	200
22		25th	150
23	Sunburst Road	25th	500
24	General Patton Drive	25th	750
25		30th	545
26	Old Farm Road	30th	255
27		30th	300
28		30th	300
29		30th	300
30	Beacon Vally Road	30th	145
31	Bowman Drive	31st	560
32	Homestead Ave	31st	300
33		31st	275
34		31st	340
35		31st	320
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			

6 month list
Call for service

This Month
11535 Feet

Year to Date
11535 Feet

Vac Truck Information

Days out of the plant working		
This Month	YTD	Remaining
13	13	137

Fuel Information	Fuel Cost	Fuel Used		
	\$245.00	58.3	Gallons	YTD Gallons
\$150.00	35.7	Gallons	94.0	Gallons
		Gallons		
		Gallons	YTD Fuel Cost	
This Months Total	\$395.00	94.0	Gallons	\$395.00

Mileage		Engine Hours	
Month Start	165117.3	Month Start	4432.5
Month End	165890	Month End	4481
Total	772.7	Total	48.5

Utility Truck Information	Fuel Cost	Fuel Used		
	\$130.00	31.7	Gallons	YTD Gallons
	\$107.00	25.4	Gallons	57.1
			Gallons	
			Gallons	YTD Fuel Cost
	\$237.00	57.1	Gallons	\$237.00

Other tasks and notes

1	1st - Measured tree branches in Latern Park and contact Burough to trim so we could clean easment.
2	2nd - Flow study on Cliff Street to find lines.
3	8th - Dropped off F-350 for service.
4	9th - Repairs and monthly PM on Vac Truck.
5	10th - Replaced rubber tube on Vac Truck from tank to boom. Went over work order stuff with Ray.
6	11th - Took Ford Transit to Skrip's Autobody to get part. Picked up F-350.
7	15th, 16th - Colt attended OSHA 10 hour class. Stayed late to vac and clean storm drain sump.
8	20th, 21st - Worked on Airation Tank project.
9	22nd - Helped install sump pump in Airation Tank.
10	23rd - Fixed area Vac Truck sunk into on Latern Park Easment.
11	24th - Helped clean Airation Tank.
12	31st - Met with G&L on Spring Street to check on manhole projects.
13	
14	
15	
16	
17	
18	
19	
20	

Root Treatment			
	Street Name	Type	Footage
1	None this month		
2			
3			
			This Month
			0 Feet
			Year to Date
			0 Feet

Video Inspections			
	Street Name	Type	Footage
1	Clearview Circle	Push	750
2	Marburn Lane	Push	200
3			
4			
5			
			This Month
			950 Feet
			Year to Date
			950 Feet

Pump Station Services				
	Work performed	Location	Date	Notes
1	Cleaned up litter	All 5	3rd, 12th	
2	Checked stations, pump install/removal	All 5	5th	Installed new pump at Horton Hill also
3	Cut Grass. Cleaned floats. New zip-ties	PM, I, M&M	8th	Call in for Low Levels at PM and M&M
4	Vacced and cleaned wetwells.	HB, HH	9th	
5	Check pump stations	All 5	12, 19, 26	Weekly checks
6	Replaced 2 floats, Low Level call in	PM	13th	Floats were bad. Replaced + tested.
7	New pump install	I	15th, 16th	Replaced burnt out pump. Wired connectors.
8	Vacced + cleaned wetwell. Installed new grinder.	M&M	17th	
9	Vacced and cleaned wetwells.	PM, I	18th	
10	Fixed leaking check valve.	I	19th	
11	Service 2 check valves. Losen pump from rail.	PM	29th	New pump was laso installed.

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Monthly WPCF Report August 2013
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P. 1

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1. Highlights and Significant Issues: Please refer to the report.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports and graphs for additional performance details.

Plant Process Data		Limit	Actual		
Total Suspended Solids (mg/l)					
Influent Avg.		-	334		
Effluent Avg.		30	5		
Removal Efficiency		85%	98%		
Plant Process Data*		Limit	Actual		
Carbonaceous BOD					
Influent Avg.		-	237		
Effluent Avg.		30	5		
Removal Efficiency		85%	98%		
	Naugatuck	Middlebury	Oxford	OTR	
June			0.110*		
July			0.072*		
August	Flow Avg. (MGD)	4.3	0.437	0.058	N/A
	Sludge Liquid Total (MGal)				4178.0
	Sludge Cake Total (Wet Tons)				5413.9
	Septage Total (MGal)	50,250	73,000	189,950	682,400
Discharge Permit Exceedance: None					

* Data from new flowmeter installation

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	5	15
Unconfirmed Odor Complaints	0	1

1. Compliance & Regulatory Issues

a. There were 5 recorded Odor Complaints for August 2013 (as of Aug 30). Three complaints were from the area north of the plant, one complaint was from the area around the Inwood Pump station and one complaint from Meadowbrook Place. The Aug 10 odor complaint (north of the plant) most likely as a result of a failure of the Spirac conveyors. The complaint was received Saturday evening as the conveyor was cleaned for repairs. Odor control measures were taken however a complaint was still received. A complaint was received on August 14 from people walking by the Inwood pump station. There have been no previous complaints from that pump station area. On August 16 an Odor complaint was received approximately 3 PM. I told the caller I would respond myself and was at her home on Meadowbrook within 10 minutes. Upon my arrival. Mrs. Merrill indicated the odor had just gone away. The wind direction at the plant was from the SSW thus she was upwind of the facility. Mrs. Merrill contacted CTDEEP and requested a plant tour. On Sept 11, 2013 at 9 AM, Lou Santos, CTDEEP will accompany Mrs. Merrill on a tour of the Naugatuck wastewater facility. This tour

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will also include Jim Stewart, Kleinfelder, and TRC's odor group. Dan Gorka will also attend.

b. On Sept 4, 2013, Carlos Esguerra from CTDEEP visited the site to offer a chance to discuss the preliminary draft NPDES permit. Jim Stewart, Bill Hardy Dan Gorka and Kathy Luvisi attended the meeting.

2. Personnel

a. One collections employee resigned effective Aug 30, 2013 to accept a position in Texas. The position has been filled with a start date of Sept 11, 2013.

b. One operator transferred to the Redding facility. A second operator submitted his resignation to accept a position at a Quick-Lube center. Both positions have been filled with start dates of Sept 9 and 10, 2013.

c. The filling of the vacant Electrician position will take time to find a qualified candidate.

d. Our summer intern returned to college on Aug 13, 2013.

3. Health & Safety

a. Staff received training on the MSDS updates.

4. Operational Information

a. The #2 Primary tank repairs are complete. Basically, the entire collector mechanism was rebuilt (bottom wear strips, new return rails and support brackets, new chain, new sprockets, and new shear pin hubs. In addition, the grease scum troughs were replaced (~\$7400).

b. The Collections crew assisted with Operations personnel removed a heavy grease buildup from the wet well. That task took in excess of 12 hours to complete.

c. The Piller blowers were started August 15, 2013. Due to factory related electrical issues, the blowers are not fully operable. A Piller service Tech will be onsite in September to make the required repairs.

d. The 1985 Ford dump truck we have been using for plowing is owned by the Borough. The truck has reached the end of its useful life. Repairs are estimated at over \$5,000 as the cab is basically rusted through. The issue is that this vehicle was used for plowing and sanding. While we have an ARI vehicle that can plow (a utility pickup for collections), we have no vehicle for sanding. We have asked the Borough for input regarding their plans for this vehicle.

e. Small brush growth along the access road has blocked the road markers on each side of the road. The brush along the road requires trimming.

f. A spare internal recycle pump was purchased for approximately \$54k. This pump has a 14 to 20 week lead time.

5. Collections

a. The original Plattsmill pump station pump rails require replacement at an estimated cost of \$7800. The original rails are severely corroded. This is the last pump station that requires new rails.

6. Maintenance

a. On Aug 10, 2013 vertical (VC4) conveyor and an intermediate horizontal conveyor failed. Both were repaired and returned to service.

b. The main bearings on the silo bottom conveyors require replacement.

c. The air dryer was replaced at a cost of \$9770.

d. The incinerator recycle tray scrubber water pump installation is complete and testing is underway.

- e. The expansion joints for the aeration tank air headers have been replaced on tanks #2 and #3.
- f. The incinerator exhaust duct and inlet to the primary heat exchanger was cleaned of ash deposits on Aug. 12, 2013.
- g. The ventilator fan for the wet well failed as the drive shaft broke. This is an original fan that is approximately 40 years old. We are having a new shaft fabricated.
- h. The north J Spin was rebuilt. Once the discharge gate mechanism is rebuilt, the centrifuge will be return to service.

6. Capital Projects

- a. The Piller turbo aeration blower project electrical installation was completed on Aug 6, 2013. To date there have been minor issues to correct. We expect the mechanical issues to be corrected by mid-September.

P 4 High Velocity Cleaning		(Continued)	
	Street Name	Date	Footage
40	inwood road	14th	225
41		14th	360
42		14th	445
43		14th	200
44	schmitz way easment	15th	550
45	little river dr	15th	310
46	vally drive	15th	550
47	beacon manor rd	16th	275
48		16th	410
49	meadow brook	19th	120
50		19th	300
51	beacon manor rd	19th	300
	loccust st	20th	400
		20th	350
	loccust st easment	20th	225
	sheffield st	20th	225
	fairview st	20th	410
	sheffield st	21th	320
	prospect st siphon	21st	345
		21st	100
	golden hill st	23rd	375
	endogen st	23rd	400
	stanley st	23rd	310
	throwbridge place	23rd	385
	woodland st	26th	300
		26th	200
	coen st	26th	425
	oak st	26th	120
	bradley st	26th	400
	hill st	26th	130
	pleasant ave	27th	440
		27th	110
	sharon ave	27th	350
		This Month	Year to Date
		20765 Feet	32300 Feet
Root Treatment			
	Street Name	Type	Footage
	dukes root control	foam/chem	4600
		This Month	Year to Date
		4600 Feet	4600 Feet
Video Inspections			
	Street Name	Type	Footage
	Great Hill Road	Push	250
		This Month	Year to Date
		250 Feet	1200 Feet
Pump Station Services			
	Work performed	Location	Date
	Pump Station Checks	All 5	2nd
			Notes
			Weekly check performed
1	Cut grass and picked up trash	M&M	12th
2	pump station checks	all 5	9th
3	pump station checks	all 5	16th
4	pump station checks	all 5	22nd
5	pump station checks	All 5	27th
			heavy rain
6	pump station checks	All 5	30th

**Borough of Naugatuck
Collections Systems Report
August 2013**

P. 5

Calls for Service			
1	150 may st. lateral problem.		
2			
3			
4			
5			
6			

This Month	Year to Date
1	2

Calls Caused By Collection System		Reason
1		
2		
3		
4		

High Velocity Cleaning			
	Street Name	Date	Footage
1	Tawny Trush Road	1st	600
2		1st	120
3		1st	150
4		1st	250
5		1st	280
6		1st	80
7		1st	175
8	Meadow Lark Road	1st	420
9		1st	145
10		1st	175
11		1st	105
12	Red Robin Road	1st	150
13		1st	105
14		5th	210
15		5th	180
16		5th	175
17		5th	160
18		5th	190
19		5th	110
20		5th	430
21	Morning Dove Road	5th	850
22		5th	120
23	Rain Dance Circle	5th	245
24	Morning Dove Road	6th	240
25		6th	200
26		6th	150
27		6th	300
28		6th	225
29		6th	225
30		6th	200
31		6th	250
32	Morning Dove Road Easment	7th	850
33	Horton Hill Road	7th	320
34		7th	500
35	Horton Hill Road	8th	200
36	margret circle	13th	250
37		13th	540
38		13th	350
39		13th	175

6 month list	
Call for service	

P. 6 **Vac Truck Information**

Days out of the plant working		
This Month	YTD	Remaining
16	29	121

Fuel Information	Fuel Cost	Fuel Used		YTD Gallons	
	\$190.00	16.4	Gallons		
	\$137.00	32.9	Gallons	143.3	Gallons
			Gallons		
			Gallons	YTD Fuel Cost	
This Months Total	\$327.00	49.3	Gallons	\$722.00	

	Mileage		Engine Hours
Month Start	165890	Month Start	4481
Month End	166598	Month End	4520.5
Total	708	Total	39.5

Utility Truck Information	Fuel Cost	Fuel Used		YTD Gallons
	\$131.00	31.19	Gallons	
	\$96.00	23.42	Gallons	111.71
			Gallons	
			Gallons	YTD Fuel Cost
	\$227.00	54.61	Gallons	\$464.00

Other tasks and notes

- 2nd - Went to RPM to get a new chainsaw for the plant. Cleared all brush by back road sign so it was visible.
- 1 7th - Marked out a lateral for Manny T. with the Borough of Naugatuck on Great Hill Road.
- 2 12th - Vacced plant wetwell out.
- 3 12th cut grass at maple and may
- 4 19th cut grass at platts mill
- 5 kingsley power serviced all pump station generators
- 6 29th dukes root control

**Borough of Naugatuck
Monthly WPCF Report September 2013
Page 1 of 2**

This report summarizes the activities at the Borough POTW for September 2013:

1. Highlights and Significant Issues: Please refer to the report.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports and graphs for additional performance details.

Plant Process Data	Limit	Actual		
Total Suspended Solids (mg/l)				
Influent Avg.	-	323		
Effluent Avg.	30	5		
Removal Efficiency	85%	98%		
Plant Process Data*	Limit	Actual		
Carbonaceous BOD				
Influent Avg.	-	162		
Effluent Avg.	30	5		
Removal Efficiency	85%	97%		
Sept. Flow Avg. (MGD)	Naugatuck	Middlebury	Oxford	OTR
Sludge Liquid Total (MGal)	3.8	0.390	0.051	N/A
Sludge Cake Total (Wet Tons)				4674.2
Septage Total (MGal)	49,500	56,000	222,400	5406.2
Discharge Permit Exceedance:	None			
				648,450

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	1
Lost Time Accidents	0	1
Odor Complaints	0	15
Unconfirmed Odor Complaints	0	1

1. Compliance & Regulatory Issues

- a. There were no recorded Odor Complaints during September 2013.
- b. On Sept 11, 2013 at 9 AM, Lou Santos, CTDEEP accompanied Mrs. Merrill on a tour of the Naugatuck wastewater facility. This tour also included Dan Gorka, Jim Stewart, Kleinfelder, and TRC's odor group.
- c. On Sept 4, 2013, Carlos Esguerra from CTDEEP visited the site to offer a chance to discuss the preliminary draft NPDES permit. Dan Gorka, Jim Stewart, Bill Hardy as well as Kathy Luvisi attended. A second meeting was held Sept 26 at Atty Fitzpatrick's office without Carlos Esguerra from CTDEEP.
- d. The annual stack test took place on Sept. 17-19, 2013.

2. Personnel

- a. Brian Howard was hired replace Colt Sczcygiel who resigned to accept a position in Texas. Brian is a CDL driver assigned to the Collections system.
- b. Two operators (Andre Yontef and Shelby Jackson) were hired to replace George Ciccone who transferred to the Redding facility and Julio Tapia who resigned to work at a Quick Lube.
- c. Maintenance staff received 2 hours of bearing installation, lubrication and operation from SKF bearings.

3. Health & Safety

- a. No report.

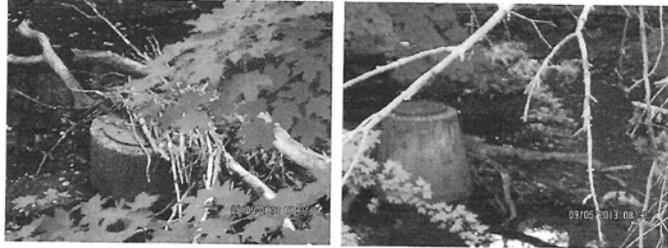
Borough of Naugatuck
Monthly WPCF Report September 2013
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4. Operational Information

- a. Aeration tank #3 developed a leak near the condensate drain line. That leak will require the draining of the tanks which is scheduled for Tuesday, Oct 1.
- b. The Piller blowers are operational. We expect minor debugging to continue.

5. Collections

a. Collections personnel remove debris from manholes in Hop Brook. The pictures on the right are attached for reference.



b. The original Plattsmill pump station pump rails were replaced.

c. A siphon near Route 8 requires repair as the structure surround the siphon has failed. Since the siphon is next to a bridge, CTDOT, Bridge repairs must approve the repairs. We are investigating what other approvals may be required before repairs are started. Pricing for the repair was not available at the time of this report.

d. Several feet of sewer was replaced on Chestnut Street after CCTV inspection revealed a cracked 8 inch clay pipe.

e. Several feet of lateral in the Lounsbury Street area must be replaced. Evidentially, a series of homes were connected to a single lateral. Presently, the lateral has dropped and the original clay pipe must be replaced.

6. Maintenance

- a. The second new primary sludge pump (Vaughn chopper) was installed.
- b. A cleanout was installed on the elbow of #1 raw sewage pump. The cleanout should eliminate the need to lift the pump to derag.
- c. The transformer for the WESP failed and was replaced.
- d. The main bearings on the silo bottom conveyors require replacement. That job will be contracted out to Northeast Water and is scheduled to start Oct. 1.
- e. The original PACO sludge transfer pump was replaced with a Vaughn chopper pump.
- f. The original hot oil pump for the TDU (thermal dryer unit) developed a seal leak and was immediately removed from service.
- g. Northeast Water will replace the return rail supports, install new FRP rails and replace the wear strips for secondary tank #4.
- h. The dewatering screw for the east belt press broke and a replacement was installed.

6. Capital Projects

- a. The Piller turbo aeration blower project electrical installation is complete.

**Borough of Naugatuck
Collections Systems Report
September 2013**



Calls for Service	
1	287 N. Main st lateral line issue 9/29/2013
2	184 Lewis st back up jetted 275ft 9/23/2013
3	
4	
5	
6	

This Month	Year to Date
2	4

Calls Caused By Collection System	
1	
2	
3	
4	

Reason

High Velocity Cleaning			
	Street Name	Date	Footage
1	charles st	3-Sep	110
2			125
3	charles court	3-Sep	445
4	baldwin st	4-Sep	345
5	bowman	4-Sep	300
6	bingham st	4-Sep	315
7	auburn st	4-Sep	400
8	allerton rj	4-Sep	400
9	alma st	4-Sep	450
10	phyllis jr	4-Sep	175
11	damson ln	4-Sep	765
12	fern st	5-Sep	480
13	casper ct	5-Sep	510
14	pondview dr	9-Sep	240
15			400
16			340
17			130
18			140
19	pondview dr easemant	9-Sep	260
20	david st	9-Sep	860
21	elm st. syphon	10-Sep	75
22	elm st.	10-Sep	380
23	cherry st	10-Sep	365
24			250
25	brookside ave	10-Sep	300
26			410
27	moonlight cir	12-Sep	445
28			415
29	moonlight cir easement	12-Sep	260
30	morning mist	12-Sep	350
31	George st	23-Sep	325
32	spencer st	23-Sep	260
33	central ave school	23-Sep	195
34	chestnut st	24-Sep	400
35	may ave	24-Sep	220
36	park ave	24-Sep	500
37	city hill school	25-Sep	250
38	john st	25-Sep	550
39	chestnut st	26-Sep	400
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			1

6 month list
 Call for service

This Month	Year to Date
13541 Feet	45991 Feet

Root Treatment			
	Street Name	Type	Footage
1	chestnut st	mechanical	80
2			
3			1
		This Month	81
		Feet	
		Year to Date	4681
		Feet	

Video Inspections			
	Street Name	Type	Footage
1	chestnut st	CCTV	225
2			
3			
4			
5			1
		This Month	226
		Feet	
		Year to Date	1426
		Feet	

Pump Station Services			
	Work performed	Location	Date
1	weekly pump station checks	all 5	9/6/2013
2	weekly pump station checks	all 5	9/13/2013
3	weekly pump station checks	all 5	9/20/2013
4	weekly pump station checks	all 5	9/27/2013
5			
6			
7			

Vac Truck Information			
Days out of the plant working			
	This Month	YTD	Remaining
	16	45	105

Fuel Information			
	Fuel Cost	Fuel Used	
	\$260.00	60.8	Gallons
	\$116.00	27.1	Gallons
	\$174.08	40.7	Gallons
	\$175.59	41.0	Gallons
This Months Total	\$725.67	169.6	Gallons
			YTD Gallons
			312.9
			Gallons
			YTD Fuel Cost
			\$1,447.67

		Mileage	Engine Hours	
Month Start	166598	Month Start	4520	
Month End	167580	Month End	4577	
Total	982	Total	57	

Utility Truck Information			
	Fuel Cost	Fuel Used	
	\$1.00	1	Gallons
			YTD Gallons
			112.71
			Gallons
			YTD Fuel Cost
	\$1.00	1	Gallons
			\$465.00

Other tasks and notes	
1	inspect manholes on proposed paving project 3-Sep
2	skimmings 9/03
3	Maple and May landscape 5-sep and replace battery at Inwood station 5-sep
4	skimmings 6-Sep
5	hop brook cleared debris from manholes in stream 7-sep
6	skimmings 9-sep
7	checked inwood power failure 10-Sep
8	cleaned floats at platts mill 11-Sep
9	measured floats at platts mill 12-Sep
10	skimmings and lift manholes for NFD and call to dog pound jetted 85FT 16-Sep
11	Bring truck to Tire Pro to have 2 tires patched 17-Sep
12	Vac septic drop area at plant and inspected influents at plant 17-Sep
13	Vac Hop Brook and Platts Mill 18-Sep
14	By-pass platts mill for pumpstation repair 19-Sep
15	measure manholes @ moonlight cir for inflow protectors and 20-Sep
16	onsight for platts mill repair and then landscaped maple/may station 20-Sep
17	vac maple/may 24-Sep
18	vac inwood station 25-Sep
19	excavate damaged sewer line at chestnut st 26-Sep and bypassed / repair on the 27-Sep
20	locate Arch and Scott st manholes 9-50, 9-51, 9-85 and also vac out 287 N.main st on 30-Sep

WPCA Regular Meeting Minutes – October 17, 2013

7. Jim Stewart Added Comments Regarding a Sewer Repair for Loundsbury Street / North Main Street.

Jim Stewart commented that 6 homes tied into the same lateral on Loundsbury Street are backing up due to tree roots. Jim mentioned that he called Ron Merancy to advise him of the problem. Ron agreed that the break in the pipe should be fixed.

John Batorski commented that there is no manhole there and it has never been flushed or maintained. They sent a camera down the lateral and found a low spot where they saw a crack in a 6 inch clay pipe, and they fixed it. This allowed them to push the camera further. They found more problems, 70 feet from North Main Street and mentioned that it will be difficult to repair due to the fact that it is on a very steep hill.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta for a Sewer Repair to Loundsbury Street.

Jim Stewart also commented that there is another one on Union City Road that they took a look at. It's another 6 inch pipe, it has no manhole and it's connected to 6 houses. It goes down Mr. Saverese's driveway, past a few houses and goes to a private road off East Waterbury Road. He had it camered due to occasional back-ups and found it to be a broken pipe.

Mr. Saverese will want to speak to the Water Pollution Control Authority (WPCA) next month to make a determination.

Jim Stewart commented that a sketch should be done to see what they believe the sewers look like on both locations. The Water Pollution Control Authority (WPCA) can look at the sketches and make a determination on whether they are public or private matters.

8. Jim Stewart Added Correspondence Received by the Borough Clerk Regarding Notification from Chemtura.

No Discussion.

9. Adjournment.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADJOURN** the meeting at 7:30 P.M.

Attest: Catherine Aresta, Secretary/dl