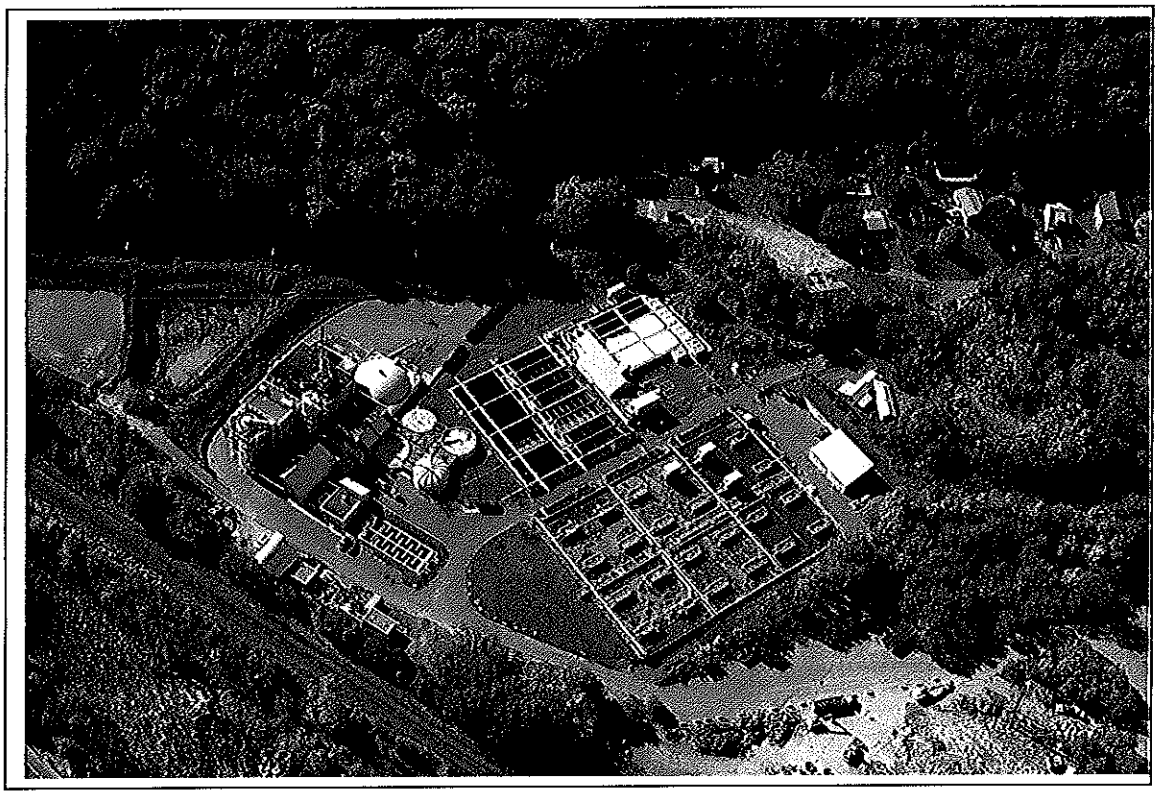

Borough of Naugatuck
Water Pollution Control Facility
Monthly Operating Report
June 2014

Table of Contents

June 2014

1. June 2014 Operating Report – Cover Letter — Page 1
2. Monthly WPCF Report, June 2014 — Page 2
3. Collection Systems Report, June 2014 — Page 4
4. June 2014 Reports
   a. Cover Letter — Page 7
   b. MOR — Page 8
   c. Nutrient Analysis Report — Page 10
   d. Seasonal Total Phosphorus Report — Page 11
   e. Monthly Total Phosphorus Report — Page 12
   f. Samples – Intake Summary — Page 13
   g. Nutrient Analysis Report – Nitrogen — Page 19
   h. DMR
      a. June 2014 — Page 20
5. CEMS Cylinder Gas & Opacity Audit, 2nd Qtr. 2014 — Page 24
6. Monthly Charts
   a. Daily Min/Max/Total Flow — Page 37
   b. Naugatuck, Middlebury, Oxford Flows — Page 38
   c. Collection System: Total Feet Sewers — Page 39
7. Odor Complaints — Page 41

VEOLIA
WATER

July 11, 2014

Mr. Ronald Merancy, Chairman
Water Pollution Control Authority
Borough of Naugatuck
229 Church Street
Naugatuck, CT 06770

Re: **June 2014 Monthly Operating Report**

Dear Mr. Merancy;

Enclosed please find Veolia Water's Monthly Operating Report for the month of June 2014. Please contact me at the address below if you have any questions about this report.

Sincerely,

VEOLIA WATER NORTH AMERICA – NORTHEAST, LLC

John Batorski
Plant Manager
Veolia Water Naugatuck

Cc: WPCA members: Rimas Balsys, Catherine Aresta, Pat Mallane, James R. Stewart PE, LS, Director of Public Works, Borough of Naugatuck, Kathleen Luvisi, Senior Environmental Engineer, Alternative Resources, Inc.

Encl.

Veolia Water North America
500 Cherry St., Naugatuck, CT 06770
Tel: 203.723.1433 • Fax: 203.723.8539
www.veoliawaterna.com

Borough of Naugatuck
Monthly WPCF Report June 2014

This report summarizes the activities at the Borough POTW for June 2014:

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.	-	201
Effluent Avg.	30	5
Removal Efficiency	85%	98%
Plant Process Data*	Limit	Actual
Carbonaceous BOD		
Influent Avg.	-	121
Effluent Avg.	30	4
Removal Efficiency	85%	97%

Discharge Permit Exceedance: None

	Naugatuck	**Middlebury**	**Oxford**	**OTR**
June Flow Avg. (MGD)	5.5	0.582	0.046	N/A
Sludge Liquid Total (MGal)				4017.2
Sludge Cake Total (Wet Tons)				4793.9
Septage Total (MGal)	64,000	47,500	204,750	725,250

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	0
Lost Time Accidents	0	0
Odor Complaints	3	6
Unconfirmed Odor Complaints	1	1

1. **Compliance & Regulatory Issues**
   - **a.** There were 4 recorded Odor Complaints for June 2014. One complaint was from a homeowner on a septic system (not sewer related). The address was 2.1 miles from the plant and was upwind of the facility.
2. **Personnel**
   - **a.** The Maintenance III Tech position was advertised again
3. **.Health & Safety**
   - **a.** Monthly safety meetings were held.
4. **Operational Information**
   - **a.** Due to the lack of a headwork's, a road cone worked its way into the wet well, through the new raw sewage pumps and into the primary tank.
   - **b.** The #4 secondary tanks were removed from service to repair a broken cross collector. That tank will require new return rails, wear strips, sprockets, and supports. Repairs are still underway and should be completed by early July.

Borough of Naugatuck
Monthly WPCF Report June 2014

5. .**Collections**
   a. Staff continues to work with a flowmeter issue on the Platts Mill pump station.

6. **Maintenance**
   a. Repairs have started on secondary tank #4. New support rails, brackets, sprockets, sleeves, wear strips, chain and collectors are being installed. Repairs to the #3 collector took precedence, followed by primary tank #2 (damaged by a road cone).
   b. A July 1, 6 to 8 hour incinerator shutdown was scheduled. During that period, the soft start for the 400 HP induced draft fan was changed. Ceramic refractory patches and scheduled PM's was also scheduled.
   c. The hot oil cooler and piping installation is underway.
   d. Northeast Water performed annual inspections and maintenance on the Spirac and related conveyors. Many liners required replacement.
   e. The dewatering screw #1 broke and was replaced with a screw in inventory. This was an original screw with over 25% wear.
   f. Haarslev installed new bearings, new drive shaft, and new sleeves on the thermal dryer. Maintenance installed a new rotary seal on the non-drive end and well new inlet/discharge flex joints. A rebuilt 150 HP motor was also installed along with new drive belts.
   g. The freight elevator in the dewatering failed and was repaired by an elevator contractor. That elevator is needed to move equipment up/down the 4 levels of the building. Repairs cost approximately $20k.
   h. A Cisco 24 port network switch failed on June 25. That switch took the entire SCADA system down meaning incineration could not operate. The switch was down from approximately 2 PM to 7 PM, was replaced early Thursday evening, and incineration resumed.
   i. A 75 HP VFD cooling fan failed on June 27 for the plant service water pumps.

7. **Capital Projects**
   a. The hot oil cooler project is underway. First weld inspections are scheduled for the week of June 23.

Borough of Naugatuck
Collections Systems Report
June 2014

VEOLIA WATER

	Calls for Service
1	43 Croen st. 06/05/14. main line was clear
2	
3	
4	
5	
6	

This Month	Year to Date
1	27

	Calls Caused By Collection System	Reason
1	none	
2		
3		
4		

	High Velocity Cleaning		
	Street Name	Date	Footage
1	Walnut st. 6-162 to 6-161	6/3/2014	160
2	Walnut st. 6-161 to 6-160	6/3/2014	550
3	Walnut st. 6-160 to 6-155	6/3/2014	290
4	Inwood dr. 8-7 to 8-6	6/4/2014	300
5	Inwood dr. 8-6 to 8-5	6/4/2014	100
6	Inwood dr. 8-5 to 8-4	6/4/2014	220
7	Evening Star dr. 11-80 to 11-84	6/5/2014	470
8	Evening Star dr. 11-84 to 8-1	6/6/2014	905
9	Evening Star dr. 8-1 to 8-4	6/6/2014	370
10	Inwood dr. 8-4 to 8-9	6/6/2014	275
11	Pearl rd. no # to 6-338	6/9/2014	402
12	Salem blvd. no # to 6-339	6/9/2014	440
13	Platts Mill force main	6/11/2014	400
14	High st. 10-150 to no #	6/24/2014	620
15	High st. 10-137 to 10-139	6/24/2014	275
16	Mulberry st. 11-2 to 11-3	6/24/2014	300
17	Brennan st. 7-42 to 7-51	6/24/2014	480
18	Diamond st. 7-41 to 7-52	6/24/2014	200
19	Porter ave. 3-10 to 2-30	6/24/2014	160
20	Spring st. 2-14 to 2-14A	6/24/2014	225
21	Spring st. 7-16 to 7-41	6/24/2014	500
22	Millville ave. 6-115 to 6-167	6/26/2014	225
23	Quinn st. 6-171 to 6-173	6/30/2014	525
24	Rockwell ave. 7-24 to 7-33	6/30/2014	620
25			
26			
27			
28			
29			
30			
51			1

This Month		Year to Date	
9013	Feet	154359	Feet

6 month list
Call for service

Root Treatment

	Street Name	Type	Footage
1			
2			
3			1

This Month		Year to Date	
1	Feet	4689	Feet

Video Inspections

	Street Name	Type	Footage
1	06/04/14 Walnut st from 6-224 downstream	cctv	80
2	06/12/14 Hoadley st from 6-115 to Rubber ave	cctv	1840
3	06/18/14 Wooster st from 7-146b to 7-138	cctv	1012
4	06/11/14 Platts Mill rd force main m/h	cctv	200
5			1

This Month		Year to Date	
3133	Feet	8855	Feet

Pump Station Services

	Work performed	Location	Date	Notes
1	Pump Station Services	all 5	6/6/2014	
2	Pump Station Services	all 5	6/12/2014	
3	Pump Station Services	all 5	6/20/2014	Replaced sequencer at Maple/May
4	Pump Station Services	all 5	6/27/2014	
5				
6				
7				

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
Inwood	End Reading	687.2	2429.5	2836.9
	Start Reading	686.7	2429.5	2743.6
	Hrs Run	0.5	0	93.3

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
MAPLE & MAY	End Reading	32758.51		N/A
	Start Reading	32708.4		N/A
	Hrs Run	50.11	0	

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
Platts Mill	End Reading	3841	4412.6	N/A
	Start Reading	3682.7	4346	N/A
	Hrs Run	158.3	66.6	

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
Hopbrook	End Reading	1001.3	673.1	N/A
	Start Reading	988.7	667.3	N/A
	Hrs Run	12.6	5.8	

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
HORTON HILL	End Reading	7337.1	9208.5	N/A
	Start Reading	7287.4	9163.1	N/A
	Hrs Run	49.7	45.4	

Vac Truck Information

Days out of the plant working		
This Month	YTD	Remaining
16	173	-23

Fuel Information	Fuel Cost	Fuel Used			
	$294.38	67.2	Gallons	YTD Gallons	
			Gallons	1218.8	Gallons
			Gallons		
			Gallons	YTD Fuel Cost	
This Months Total	$294.38	67.2	Gallons	$5,401.20	

	Mileage		Engine Hours
Month Start	174033.5	Month Start	4981.9
Month End	174736.5	Month End	5021.4
Total	703	Total	39.5

Utility Truck Information	Fuel Cost	Fuel Used		
	$139.98	32.56	Gallons	YTD Gallons
	$137.46	31.39	Gallons	709.144
			Gallons	
			Gallons	YTD Fuel Cost
	$277.44	**63.95**	Gallons	$3,088.97

Other tasks and notes

1	06/02/14 Confined space at Platts Mill for check valve work
2	06/02/14 Vac out and clean Platts Mill wetwell
3	06/06/14 Landscaped and cleaned floats at all 5 pumpstations
4	06/10/14 Confined space at Platts Mill for check valve work, new psi gauge, cleaned dry well
5	06/11/14 Confined space at force main m/h. Vac out and clean m/h, put valve on force main cover, jetted and camera
6	06/16/14 Landscaped all 5 pumpstations and vac out and clean Hopbrook wetwell
7	06/16/14 Washed the outside walls of maple/may pumpstation
8	06/18/14 Main water line on vac truck under the reel was replaced
9	06/19/14 Confined space on Platts Mill force main m/h to install an access point to attach the jetter hose to flush the line
10	06/19/14 Confined space at Platts Mill drywell to install lighter weights on check valves and replace the other psi gauges
11	06/20/14 Did draw down tests at Platts Mill
12	06/23/14 Vac out and clean wetwell at Maple/May, Vac out and clean wetwell at Inwood station, skimmings at plant
13	06/26/14 Main water line on the reel of the vac truck broke and was replaced. Painted reel while hose was off.
14	06/30/14 Landscaped Platts Mill and Maple/May stations
15	
16	
17	
18	
19	
20	

VEOLIA
WATER

Sent via certified mail #7009 2820 0004 1018 1054 on July 9, 2014

Municipal Wastewater Monitoring Coordinator
Connecticut Department of Environmental Protection
Bureau of Water Management
79 Elm Street
Hartford, CT 06106-5127

July 9, 2014

Re: June 2014 Reports for Naugatuck, CT WPCF, NPDES # CT0100641

Dear Sir/Madam:

Enclosed please find the *Monthly Operating Report, Monthly Total Phosphorus, Seasonal Total Phosphorus and Nutrients Analysis Report* for the month for June 2014. The *Nutrients Analysis Report for Compliance with General Permit for Nitrogen Discharges and Discharge Monitoring Report* was submitted electronically. There were no exceptions to the reports.

Also enclosed is a summary of sludge sources received at this facility during the month of June 2014.

Please contact me if you have any questions regarding the enclosed revised report.

Sincerely,
Veolia Water North America – Northeast, LLC

John Batorski

John Batorski
Plant Manager

cc: James R. Stewart PE, LS, Director of Public Works, Borough of Naugatuck
(Enclosure)

Veolia Water NA -Naugatuck
500 Cherry Street, Naugatuck, CT 06770
Tel 203-723-1433 / 203-723-8539
www.veoliawaterna.com

Facility: Naugatuck WWTF
Sample month: Jun,2014
Facility ID: 088-001
Page 1 of MOR for permit # CT0100641

Chief Operator: John Batorski
Permit expiration date: August 7, 2006

Please return forms to: DEP-BWM
79 Elm Street
Hartford, CT 06106-5127

Date received: (stamped)

	Daily Flow			Primary Sludge			Aeration Tanks				Return sludge		Waste sludge	Dry solids to incineration	Waste accepted		CBOD (5-day)			Suspended Solids			Settleable Solids	Turbidity	Comments
	Max.	Min.	Total	Vol.	%	wt.	MLSS	SVI	DO Hi	DO Lo	% flow	% solids			septic	indust	Inf.	Prim. Eff.	Final Eff.	Inf.	Prim. Eff.	Final Eff.	Eff.	Eff.	
Day	mgd			gal.	solids	lbs.			mg/l				lbs	lbs	gal	gal	mg/l			mg/l			ml/l	NTU	
	daily			work day			work day				work day		work day	work day	work day		Daily			Daily			work day	work day	
01	8.0	4.8	6.3						2.00	0.60	113		0	75,529	0										
02	7.6	4.4	6.3				4,578	88	2.20	0.70	110	1.01	1,718	66,495	33,250		130	99	<4	210	130	<5	0.0	1.7	
03	7.8	4.8	6.4				4,608	87	1.80	1.00	88	1.06	1,803	56,414	41,700		140	160	<4	250	210	<5	0.0	3.8	
04	7.6	4.8	6.3				4,702	88	1.90	0.90	129	1.11	5,640	81,557	54,250		120	120	<4	220		<5	0.0	3.2	
05	7.6	4.6	6.4				4,982	81	1.90	0.80	145	0.85	5,247	85,051	39,000								0.0	3.8	
06	7.8	4.6	6.2				4,880	84	5.00	0.50	163	0.99	6,737	183,672	58,050								0.0	2.7	
07	7.8	4.5	6.1						3.10	0.40	160		4,211	180,900	3,000										
08	6.9	4.4	5.8						1.90	0.90	146		4,211	191,784	0										
09	7.1	3.9	5.9				4,800	76	1.90	0.90	169	0.77	0	185,772	57,750		140	120	<4	250	110	<5	0.0	2.7	
10	7.0	4.1	5.9				5,248	71	1.80	1.00	156	1.00	6,805	187,236	60,250		130	150	<4	200	190	<5	0.0	2.6	
11	6.8	1.9	5.4				4,842	72	2.20	0.00	175	0.88	3,722	185,772	58,750		130	120	<4	200	120	<5	0.0	2.4	
12	6.8	4.1	5.8				4,632	73	1.90	0.00	170	0.92	2,335	183,384	39,150								0.0	2.7	
13	9.1	4.2	6.6				4,534	72	5.00	0.00	151	0.84	2,144	186,235	45,500								0.0	2.9	
14	7.7	4.7	6.0						2.60	1.00	152		2,144	176,928	9,750										
15	7.3	1.5	5.7						5.00	0.00	157		3,144	190,800	0										
16	8.2	4.3	6.4				2,820	71	2.30	0.70	119	0.25	0	185,772	53,000		90	150	<4	99	350	<5	0.0	3.4	
17	6.8	3.8	5.6				3,380	70	4.30	0.00	150	0.27	0	168,540	47,700		110	230	<4	120	160	<5	0.0	2.4	
18	7.0	3.9	5.6				3,826	67	4.00	0.00	146	0.47	0	115,440	33,500		69	220	<4	120	140	<5	0.0	2.3	
19	7.0	3.8	5.6				3,862	67	2.10	0.00	147	0.40	0	183,672	45,500								0.0	3.2	
20	6.7	3.9	5.4				3,886	72	2.00	0.00	151	0.41	0	196,152	63,450								0.0	1.8	
21	6.4	3.7	4.9						4.50	0.00	161		698	170,069	21,500										
22	13.2	0.2	4.3						2.70	0.00	188		0	155,291	0										
23	5.8	2.3	4.5				3,910	66	2.10	0.00	196	0.50	0	179,184	40,250		110	160	<4	150	68	<5	0.0	2.3	
24	5.7	3.1	4.8				5,776	48	2.40	0.00	222	0.93	3,956	174,024	47,500		100	280	<4	200	210	<5	0.0	2.6	
25	6.5	3.0	4.7				5,478	47	3.80	0.00	206	0.83	4,913	124,165	39,700		110		<4	210		<5	0.0	3.5	
26	5.9	3.3	4.8				4,068	64	2.30	0.00	197	0.95	2,829	143,208	37,000								0.0	2.9	
27	6.3	2.9	4.4				5,304	52	5.00	0.00	242	1.02	4,317	116,589	46,000								0.0	2.4	
28	5.9	2.8	4.3						2.00	0.20	221		2,590	173,004	9,500										
29	5.5	2.5	4.2						2.10	0.20	243		2,590	173,004	0		180		<4	280		<5			
30	5.8	2.6	4.3				4,400	59	1.90	0.20	243	0.79	3,005	162,102	56,500		130	100	<4	300	120	<5	0.0	1.9	
TOT			164.7										74,759	4,637,745	1,041,500										
AVG	7.2	3.6	5.5				4,501	70	0.9	0.7	167	0.8	2,492	154,591	34,717		121	159	4	201	164	5	0.0	2.7	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Authorized Official: John Batorski Title: Plant Manager Signature: John Batorski Date: 7-9-14

	Chlorine Dose		Chlorine Residual		Fecal Coliform	Ammonia			Nitrate			Nitrite			TKN			D.O.	pH		Ortho P	Total Phosphorus		Temp.		Zinc	Copper	Comments
			high	low		Inf.	Prim.	Eff.	Inf.	Prim.	Eff.	Inf.	Prim.	Eff.	Inf.	Prim.	Eff.	Eff.	Inf.	Eff.	Eff.	Inf.	Eff.	Inf.	Eff.	Eff.	Eff.	
Day	lbs	mg/l	mg/l		#/100 ml	mg/l			mg/l			mg/l			mg/l			mg/l	S.U.		mg/l	mg/l		Deg F		kg/d	kg/d	
	Daily		4/work day		daily	weekly			weekly			weekly			weekly			week	work day		weekly	wee k		work day		work day	work day	
01	59.28	1.13	0.04	0.00																								
02	57.82	1.11	0.05	0.00		16.7	16.2	0.20	0.67	0.49	2.3	0.130	0.2	<0.01	30.5	30.8	1.36	7.8	7.5	6.9	3.5	4.2	3.5	63	73	1.58	0.19	
03	60.15	1.12	0.04	0.01	50	16.6	21.4	0.20			3.8			<0.01			1.62	8.0	7.3	6.8	5.1		5.6	65	74			
04	61.24	1.17	0.05	0.02	250	17.2	22.2	0.18		190.00	3.6			<0.01			1.78	8.0	7.2	6.9				66	74			
05	62.08	1.17	0.04	0.02	150													8.9	7.2	6.9				64	73			
06	54.84	1.06	0.04	0.02														7.6	7.1	6.9				64	75			
07	63.99	1.26	0.04	0.00																								
08	47.20	0.97	0.04	0.01																								
09	48.29	0.97	0.02	0.00		20.4	19.3	0.28			2.9			0.02			1.75	7.7	7.2	6.7	7.8		7.6	67	80	1.41	0.25	
10	56.03	1.14	0.05	0.00	25	18.2	23.3	0.19			4.1			0.03			1.77	7.6	7.2	6.7	8.4		7.8	67	82			
11	59.05	1.32	0.04	0.02	10	18.5	19.7	0.18			3.7			0.01			1.61	8.2	7.1	6.8	7.0		7.0	68	82			
12	60.77	1.26	0.04	0.02	10													8.0	7.2	6.7				67	81			
13	64.78	1.18	0.04	0.00														7.5	7.0	6.6				68	81			
14	62.50	1.24	0.04	0.01																								
15	58.40	1.23	0.04	0.00																								
16	60.02	1.12	0.04	0.00		16.9	21.4	0.17			3.9			<0.01			1.71	7.2	7.2	6.6	10.1		9.3	68	79	1.55	0.22	
17	60.92	1.30	0.05	0.00	160	18.4	18.4	0.21			0.9			<0.01			1.44	7.4	7.2	6.8	8.9		10.1	66	79			
18	64.07	1.38	0.03	0.00	100	16.6	18.8	0.29			0.8			<0.01			1.41	7.6	7.1	7.1				70	82			
19	70.95	1.52	0.04	0.01	100													7.3	7.1	7.1				67	82			
20	74.73	1.66	0.03	0.00														8.4	7.2	7.1				67	83			
21	75.14	1.83	0.02	0.00																								
22	64.69	1.80	0.04	0.01																								
23	63.51	1.71	0.04	0.01		20.8	22.6	0.23			2.2			<0.01			1.61	7.7	7.3	7.0	1.4		1.6	68	83	1.52	0.09	
24	68.84	1.74	0.03	0.00	125	19.7	25.6	0.21			2.2			<0.01			1.56	9.0	7.3	7.4	2.1		2.5	67	81			
25	62.89	1.62	0.04	0.01	70	20.2		0.35			2.0			<0.01			4.17	8.4	7.1	7.2				66	84			
26	76.31	1.89	0.03	0.00	90													8.2	7.3	7.2				66	84			
27	72.19	1.99	0.04	0.01														8.6	7.5	7.2				67	85			
28	65.38	1.81	0.05	0.02																								
29	63.20	1.82	0.04	0.02		24.6		0.25			3.5			<0.01			1.85											
30	64.67	1.82	0.04	0.00	80	23.0	20.8	0.24			4.0			<0.01			2.34	8.4	7.3	6.8	12.0		12.3	69	84			
TOT																												
AVG			0.039	0.007	66	19.1	20.8	0.23	0.7	95.2	2.9	0.1	0.2	0.01	30.5	30.8	1.86	8.0	7.2	6.9	6.6	4.2	6.7	67	80	1.51	0.19	

Nutrient Analysis Report

Town/Facility: Naugatuck WWTF

Flow Rate: 6.3 MGD

Sampling Date: 06/02/14

Parameter	Raw Influent		Primary Effluent		Final Effluent				Plant Efficiency
	mg/l	lbs/day	mg/l	lbs/day	mg/l	lbs/day	mg/l	lbs/day	(%)
Ammonia	16.7		16.2		0.2				
Nitrites	0.13		0.15		<0.01				
Nitrates	0.7		0.5		2.3				
TKN	30.5		30.8		1.4				
Total Nitrogen	31.3	1,637	31.4	1,644	3.7	194			88
Orthophosphates	1.4	71			3.5	183			
Total Phosphorus	4.2	220			3.5	185			

Permit # CT0100641

Seasonal Total Phosphorus Report

Average from April 1st through October 30th

for compliance with NPDES permit

Submit this report by November 15th

Permit # CT0100641

Month	Average in lbs/d
April	374
May	311
June	299
July	501
August	
September	
October	

Average Seasonal Load Cap in lbs/d	Seasonal Average in lbs/d
Load Capacity N/A	371

Monthly Total Phosphorus Report

for compliance with NPDES permit

Use this report from April 1st through October 30th

Facility Name: Naugatuck

Permit # : CT0100641

Month of: June, 2014

Sample Date	Flow (mgd)	Effluent Total Phosphorus (mg/l) Max. Daily Limit - - for comparison purposes only	X	Total Phosphorus (lbs/d)
06/02/2014	6.3	3.53	8.34	185
06/03/2014	6.4	5.61	8.34	301
06/09/2014	5.9	7.60	8.34	377
06/10/2014	5.9	7.79	8.34	383
06/11/2014	5.4	7.03	8.34	315
06/16/2014	6.4	9.27	8.34	495
06/17/2014	5.6	10.10	8.34	475
06/23/2014	4.5	1.61	8.34	60
06/24/2014	4.8	2.51	8.34	99
06/30/2014	4.3	12.30	8.34	

Average Monthly Total Phosphorus Limit (mg/l)	Average Monthly Total Phosphorus (mg/l)	Average Seasonal Load Cap (lbs/d)	Average Monthly Total Phosphorus Load (lbs/d)
	6.74		299

VEOLIA WATER

Naugatuck Plant Samples by Intake Forecast Summary

Sample Date Range 6/1/2014 - 6/30/2014
Forecast Date Range 7/1/2014 - 6/30/2014
Number of Forecast Days: 0

	Forecasted New Intake	Forecasted Total
Bates, Inc.		
Liquid Sludge		
Total Gallons: 24,000		
Total Samples for Bates, Inc.: 4	0	24,000
Beacon Falls Treatment		
Liquid Sludge		
Total Gallons: 162,500		
Total Samples for Beacon Falls Treatment: 25	0	162,500
Bennett Septic		
Septage		
Total Gallons: 199,000		
Total Samples for Bennett Septic: 52	0	199,000
Bill Dunn Sanitation		
Septage		
Total Gallons: 46,600		
Total Samples for Bill Dunn Sanitation: 24	0	46,600
Bill Marek Excavating & Septic Systems		
Septage		
Total Gallons: 48,000		
Total Samples for Bill Marek Excavating & Septic Systems: 16	0	48,000
Bristol		
Cake Sludge		
Total Tons: 302.91		
Total Samples for Bristol: 17	0	303
Casella Chicopee		
Cake Sludge		
Total Tons: 417.00		
Total Samples for Casella Chicopee: 16	0	417
Casella Glen Cove		
Cake Sludge		
Total Tons: 268.12		
Total Samples for Casella Glen Cove: 11	0	268

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	Forecasted New Intake	Forecasted Total
Casella Huntington		
Cake Sludge		
Total Tons: 329.65		
Total Samples for Casella Huntington: 12	0	330
Casella Suffolk NY		
Cake Sludge		
Total Tons: 1,170.74		
Total Samples for Casella Suffolk NY: 43	0	1,171
Casella Yorktown Heights		
Cake Sludge		
Total Tons: 93.09		
Total Samples for Casella Yorktown Heights: 7	0	93
Chatfield		
Septage		
Total Gallons: 12,800		
Total Samples for Chatfield: 16	0	12,800
East Coast Septic		
Septage		
Total Gallons: 168,000		
Total Samples for East Coast Septic: 42	0	168,000
Grieger Excavating		
Septage		
Total Gallons: 32,500		
Total Samples for Grieger Excavating: 13	0	32,500
Heritage Village Water		
Liquid Sludge		
Total Gallons: 19,500		
Total Samples for Heritage Village Water: 3	0	19,500
HI Stone Septic		
Industrial Waste Water		
Total Gallons: 17,000		
Total Samples for HI Stone Septic: 4	0	17,000
Koseski Septic		
Septage		
Total Gallons: 116,250		
Total Samples for Koseski Septic: 40	0	116,200

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Litchfield

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 52,000		
Total Samples for Litchfield: 8	0	52,000

Lynnwood Place

Septage	Forecasted New Intake	Forecasted Total
Total Gallons: 32,500		
Total Samples for Lynnwood Place: 5	0	32,500

Mahopac Septic

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 833,000		
Total Samples for Mahopac Septic: 140	0	833,000

Maslar's Party Rentals

Septage	Forecasted New Intake	Forecasted Total
Total Gallons: 270		
Total Samples for Maslar's Party Rentals: 1	0	300

New England Septic

Septage	Forecasted New Intake	Forecasted Total
Total Gallons: 144,000		
Total Samples for New England Septic: 48	0	144,000

New Hartford

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 26,000		
Total Samples for New Hartford : 4	0	26,000

New Rochelle

Cake Sludge	Forecasted New Intake	Forecasted Total
Total Tons: 2,045.19		
Total Samples for New Rochelle: 87	0	2,045

North Canaan

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 39,000		
Total Samples for North Canaan: 6	0	39,000

Oxbury Sanitation

Septage	Forecasted New Intake	Forecasted Total
Total Gallons: 51,000		
Total Samples for Oxbury Sanitation: 17	0	51,000

Pawling

	Forecasted New Intake	Forecasted Total

Liquid Sludge		
Total Gallons: 22,200		
Total Samples for Pawling: 4	0	22,200

Plymouth

	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 182,000		
Total Samples for Plymouth: 28	0	182,000

Prospect Sanitation

	Forecasted New Intake	Forecasted Total
Septage		
Total Gallons: 30,000		
Total Samples for Prospect Sanitation: 12	0	30,000

Rhinebeck

	Forecasted New Intake	Forecasted Total
Cake Sludge		
Total Tons: 10.31		
Total Samples for Rhinebeck: 1	0	10

Salisbury

	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 95,200		
Total Samples for Salisbury: 15	0	95,200

Shelton Septic

	Forecasted New Intake	Forecasted Total
Septage		
Total Gallons: 30,000		
Total Samples for Shelton Septic: 15	0	30,000

Stratford

	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 838,000		
Total Samples for Stratford: 129	0	838,000

Superior Sanitation

	Forecasted New Intake	Forecasted Total
Septage		
Total Gallons: 33,000		
Total Samples for Superior Sanitation: 22	0	33,000

Synagro

	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 499,500		
Total Samples for Synagro: 81	0	499,500

Talarico Septic

	Forecasted New Intake	Forecasted Total
Septage		

Total Gallons: 240,000		
Total Samples for Talarico Septic: 70	0	240,000

Thomaston

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 39,000		
Total Samples for Thomaston: 6	0	39,000

Torrington

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 416,000		
Total Samples for Torrington: 64	0	416,000

Veolia Bedford Hills

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 26,000		
Total Samples for Veolia Bedford Hills: 4	0	26,000

Veolia Danbury

Cake Sludge	Forecasted New Intake	Forecasted Total
Total Tons: 23.66		
Total Samples for Veolia Danbury: 1	0	24

Veolia North Haven

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 136,500		
Total Samples for Veolia North Haven: 21	0	136,500

Veolia Pepsi

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 6,500		
Total Samples for Veolia Pepsi: 1	0	6,500

Veolia Poughkeepsie

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 350,800		
Total Samples for Veolia Poughkeepsie: 54	0	350,800

Veolia Redding

Liquid Sludge	Forecasted New Intake	Forecasted Total
Total Gallons: 6,500		
Total Samples for Veolia Redding: 1	0	6,500

Veolia Seymour

Cake Sludge	Forecasted New Intake	Forecasted Total
Total Tons: 133.26		
	0	133

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Total Samples for Veolia Seymour: 13

VES Americas Styrenics	Forecasted New Intake	Forecasted Total
Industrial Waste Water		
Total Gallons: 10,500		
Total Samples for VES Americas Styrenics : 2	0	10,500

VES Styron	Forecasted New Intake	Forecasted Total
Industrial Waste Water		
Total Gallons: 20,900		
Total Samples for VES Styron: 5	0	20,900

Vogler	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 19,500		
Total Samples for Vogler: 3	0	19,500

Westport	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 123,500		
Total Samples for Westport: 19	0	123,500

Windham	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 325,000		
Total Samples for Windham: 50	0	325,000

Total Gallons for all Customers 6/1/2014 - 6/30/2014: 5,474,520	0	5,474,500
Total Tons for all Customers 6/1/2014 - 6/30/2014: 4,793.93	0	4,794
Total Samples for all Customers 6/1/2014 - 6/30/2014: 1282		

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Nutrient Analysis Report

For compliance with General Permit for Nitrogen Discharges

Facility Name: NAUGATUCK TREATMENT Co.
Permit Number: CT0100641

Month: Jun-14
Design Flow: 10.3 MGD

Final Effluent

Plant Name	Sample Date (mm/dd/yyyy)	Average Daily Flow (mgd)	TKN (mg/l)	(Nitrite + Nitrate) (mg/l)	Total Nitrogen (mg/l)	Total Nitrogen (lbs/d)
NAUGATUCK TRE	6/2/2014	6.27	1.36	2.34	3.7	193
NAUGATUCK TRE	6/3/2014	6.44	1.62	3.76	5.4	290
NAUGATUCK TRE	6/4/2014	6.26	1.78	3.61	5.4	282
NAUGATUCK TRE	6/9/2014	5.94	1.75	2.92	4.7	233
NAUGATUCK TRE	6/10/2014	5.9	1.77	4.1	5.9	290
NAUGATUCK TRE	6/11/2014	5.38	1.61	3.72	5.3	238
NAUGATUCK TRE	6/16/2014	6.4	1.71	3.9	5.6	299
NAUGATUCK TRE	6/17/2014	5.64	1.44	0.93	2.4	113
NAUGATUCK TRE	6/18/2014	5.55	1.41	0.81	2.2	102
NAUGATUCK TRE	6/23/2014	4.46	1.61	2.23	3.8	141
NAUGATUCK TRE	6/24/2014	4.75	1.56	2.17	3.7	147
NAUGATUCK TRE	6/25/2014	4.66	4.17	1.99	6.2	241
NAUGATUCK TRE	6/29/2014	4.17	1.85	3.52	5.4	188
NAUGATUCK TRE	6/30/2014	4.25	2.34	4.03	6.4	227
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
				Total Pounds		2984
				Average Pounds		213.1428571

Date of Last Calibration of Flow Meter: 7/15/2013

Statement of Acknowledgement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Authorized Official: _____ **Title:** _____

Sent electronically 7-9-14
John Balant

DMR Copy of Record

Permit

Permit #:	CT0100641	**Permittee:**	NAUGATUCK WPCF	**Facility:**	NAUGATUCK, BOROUGH OF
Major:	Yes	**Permittee Address:**	500 CHERRY STREET NAUGATUCK, CT 06770	**Facility Location:**	500 CHERRY STREET NAUGATUCK, CT 06770
Permitted Feature:	001 External Outfall	**Discharge:**	001-1 SANITARY SEWAGE		

Report Dates & Status

Monitoring Period:	From 06/01/14 to 06/30/14	**DMR Due Date:**	07/15/14	**Status:**	NetDMR Validated

Considerations for Form Completion

MONTHLY AVERAGE CONCENTRATIONS SHALL NOT BE EXCEEDED BY > 1.5 DURING ANY WEEK.GRAB SAMPLES SHALL BE TAKEN DURINGPERIODS OF DAILY PEAK FLOW.SAMPLES COLLECTED FOR BACTERIOLOGICAL EXAM SHALL BE COLLECTED BTW 11AM & 3PM OR DURING PEAK HORLY FLOW.

Principal Executive Officer

First Name:	John	**Title:**	Plant Manager	**Telephone:**	203-723-1433
Last Name:	Batorski				

No Data Indicator (NODI)

Form NODI: –

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00011	Temperature, water deg. fahrenheit	1 - Effluent Gross	0	–	Sample										=	85	15 - deg F		01/01 - Daily	GR - GRAB
					Permit Req.											Req Mon INST MAX	15 - deg F		01/01 - Daily	GR - GRAB
					Value NODI															
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	–	Sample						=	7.2					19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.						>=	5.0001 INST MIN					19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	–	Sample						=	6.6			=	7.4	12 - SU		01/01 - Daily	GR - GRAB
					Permit Req.						>=	6 INST MIN			<=	9 INST MAX	12 - SU		01/01 - Daily	GR - GRAB
					Value NODI															
00410	Alkalinity, total [as CaCO3]	1 - Effluent Gross	0	–	Sample										=	70	19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.											Req Mon INST MAX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	–	Sample								=	5	=	5	19 - mg/L		12/30 - Twelve Per Month	CP - COMPOS
					Permit Req.								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L		12/30 - Twelve Per Month	CP - COMPOS
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	–	Sample								=	201			19 - mg/L		12/30 - Twelve Per Month	CP - COMPOS
					Permit Req.									Req Mon MO AVG			19 - mg/L		12/30 - Twelve Per Month	CP - COMPOS
					Value NODI															
00545	Solids, settleable	1 - Effluent Gross	0	–	Sample										<	0.01	25 - mL/L		01/07 - Weekly	GR - GRAB
					Permit Req.											Req Mon INST MAX	25 - mL/L		01/07 - Weekly	GR - GRAB
					Value NODI															
00600	Nitrogen, total	1 - Effluent Gross	0	–	Sample										=	6.2	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											Req Mon DAILY MX	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Value NODI															
00600	Nitrogen, total	C - Nitrogen, Removal Complete	0	–	Sample	=	215			26 - lb/d									02/07 - Twice Every Week	CP - COMPOS
					Permit Req.		Req Mon MO AVG			26 - lb/d									02/07 - Twice Every Week	CP - COMPOS
					Value NODI															
					Sample								=	0.2	=	0.4	19 - mg/L		12/30 - Twelve Per Month	CP - COMPOS

00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	–	Permit Req.						<=	.10 MO AVG		Req Mon DAILY MX	19 - mg/L	12/30 - Twelve Per Month	CP - COMPOS
					Value NODI												
					Sample								=	0.03	19 - mg/L	01/30 - Monthly	CP - COMPOS
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample								=	4.1	19 - mg/L	01/30 - Monthly	CP - COMPOS
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample								=	4.2	19 - mg/L	01/30 - Monthly	CP - COMPOS
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample								=	12.3	19 - mg/L	01/30 - Monthly	CP - COMPOS
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample								=	2.4	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01002	Arsenic, total [as As]	S - See Comments	0	–	Permit Req.									Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI												
					Sample								<	0.38	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01012	Beryllium, total [as Be]	S - See Comments	0	–	Permit Req.									Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI												
					Sample								<	0.001	19 - mg/L	01/30 - Monthly	CP - COMPOS
01027	Cadmium, total [as Cd]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample	=	0.19	=	0.25	01 - kg/d						01/07 - Weekly	CP - COMPOS
01042	Copper, total [as Cu]	1 - Effluent Gross	0	–	Permit Req.	<=	1.4 MO AVG	<=	2.56 DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
					Value NODI												
					Sample								<	0.001	19 - mg/L	01/30 - Monthly	CP - COMPOS
01077	Silver, total [as Ag]	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample	=	1.51	=	1.58	01 - kg/d						01/07 - Weekly	CP - COMPOS
01092	Zinc, total [as Zn]	1 - Effluent Gross	0	–	Permit Req.	<=	4.85 MO AVG	<=	11.11 DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
					Value NODI												
					Sample	=	5.5			03 - MGD						99/99 - Continuous	TM - TOTALZ
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	–	Permit Req.	<=	10.3 MO AVG			03 - MGD						99/99 - Continuous	TM - TOTALZ
					Value NODI												
					Sample								=	0.04	19 - mg/L	04/01 - Four Per Day	GR - GRAB
50060	Chlorine, total residual	1 - Effluent Gross	0	–	Permit Req.								<=	.06 DAILY MX	19 - mg/L	04/01 - Four Per Day	GR - GRAB
					Value NODI												
					Sample								=	12	19 - mg/L	01/30 - Monthly	CP - COMPOS
70507	Phosphorous, in total orthophosphate	1 - Effluent Gross	0	–	Permit Req.									Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
					Value NODI												
					Sample						=	94	=	250	13 - #/100mL	12/30 - Twelve Per Month	GR - GRAB
					Permit												

74055	Coliform, fecal general	1 - Effluent Gross	0	–	Req.			<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	12/30 - Twelve Per Month	GR - GRAB
					Value									
					NODI									
					Sample									
78467	Zinc, dry weight	S - See Comments	0	–	Permit Req.					=	751	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78468	Lead, dry weight	S - See Comments	0	–	Permit Req.					=	47	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78469	Nickel, dry weight	S - See Comments	0	–	Permit Req.					=	21	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78471	Mercury, dry weight	S - See Comments	0	–	Permit Req.					=	0.56	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78473	Chromium, dry weight	S - See Comments	0	–	Permit Req.					=	28	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78475	Copper, sludge, tot, dry weight [as Cu]	S - See Comments	0	–	Permit Req.					=	606	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
78476	Cadmium, sludge, tot dry weight [as Cd]	S - See Comments	0	–	Permit Req.					=	1.69	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value						Opt Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					NODI									
					Sample									
80126	BOD, carbonaceous, 5 day, 5 C	1 - Effluent Gross	1	–	Permit Req.			=	4	=	4	19 - mg/L	12/30 - Twelve Per Month	CP - COMPOS
					Value			<=	30 MO AVG	<=	40 DAILY MX	19 - mg/L	12/30 - Twelve Per Month	CP - COMPOS
					NODI									
					Sample									
80126	BOD, carbonaceous, 5 day, 5 C	G - Raw Sewage Influent	0	–	Permit Req.			=	121			19 - mg/L	12/30 - Twelve Per Month	CP - COMPOS
					Value				Req Mon MO AVG			19 - mg/L	12/30 - Twelve Per Month	CP - COMPOS
					NODI									
					Sample									
81011	Solids, suspended percent removal	K - Percent Removal	0	–	Permit Req.	=	97					23 - %	01/30 - Monthly	CA - CALCTD
					Value	>=	85 MN % RMV					23 - %	01/30 - Monthly	CA - CALCTD
					NODI									
					Sample									
81383	Carbonaceous oxygen demand, % removal	K - Percent Removal	0	–	Permit Req.	=	97					23 - %	01/30 - Monthly	CA - CALCTD
					Value	>=	85 MN % RMV					23 - %	01/30 - Monthly	CA - CALCTD
					NODI									
					Sample									
TGA3D	Pass/Fail Static 48Hr Acute D. Pulex	T - See Comments	1	–	Permit Req.				Opt Mon AVERAGE			9A - pass=0/fail=1	01/90 - Quarterly	CP - COMPOS
					Value				9 - Conditional Monitoring - Not Required This Period					
					NODI									
					Sample									
TGA6C	Pass/Fail Static 48Hr Acute Pimephales	T - See Comments	1	–	Permit Req.				Opt Mon AVERAGE			9A - pass=0/fail=1	01/90 - Quarterly	CP - COMPOS
					Value				9 - Conditional Monitoring - Not Required This Period					
					NODI									

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NAUGATUCK WPCF

User:	John.Batorski@Veoliawaterna.com
Name:	John Batorski
E-Mail:	John.Batorski@Veoliawaterna.com

Date/Time: 2014-07-09 08:33 (Time Zone: -04:00)

Sent electronically 7-9-14 John Batorski

Test Report – CEMS Cylinder Gas & Opacity Audit Second Quarter 2014

CEMS/COMS Monitoring the Fluidized Bed Incinerator
Borough of Naugatuck
Naugatuck, CT

PREPARED FOR:	Veolia Water 500 Cherry Street Naugatuck, Connecticut 06770
CONCERNING:	Cylinder Gas Audit (CGA) and Opacity Audit Fluidized Bed Incinerator 500 Cherry Street Naugatuck, Connecticut 06770
PREPARED BY:	CK Environmental, Inc. 1020 Turnpike Street, Suite # 8 Canton, MA 02021

CK Project No. 4613

July 2, 2014

CK Environmental, Inc.
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Environmental

REPORT REVIEW CERTIFICATION

I, the undersigned, hereby certify that I have personally reviewed this report and to the best of my knowledge all information and calculations contained herein are true, accurate, and complete.

Prepared by: _____
Joseph Duggan / Project Manager

Reviewed by: _____
Michael Unterweger / Project Manager

Environmental

TABLE OF CONTENTS

SECTION

1.0 INTRODUCTION
- 1.1 Summary of Test Program
- 1.2 Key Personnel

2.0 PLANT AND SAMPLING SYSTEM DESCRIPTION
- 2.1 Process Description and Operation
- 2.2 Continuous Emissions Monitoring System

3.0 SUMMARY OF RESULTS
- 3.1 Objectives
- 3.2 Field Test Changes
- 3.3 Presentation of Results

4.0 SAMPLING AND ANALYTICAL PROCEDURES
- 4.1 Cylinder Gas Audit
- 4.2 Opacity Audit Procedure

5.0 CK'S QUALITY ASSURACE PROCEDURES
- 5.1 Sampling
- 5.2 Reporting

TABLES

Table 1-1 Key Personnel
Table 2-1 CEMS Specifications
Table 3-1 Summary of Results – Cylinder Gas Audit
Table 3-2 Summary of Results – Opacity Audit

APPENDICES

Appendix A Field Data & Calculation Sheets
Appendix B Facility CEMS & COMS Data
Appendix C Opacity Filter & Calibration Gas Certificates

TEST SUMMARY

Facility Name:	**Veolia Water North America – Northeast, LLC** 500 Cherry Street Naugatuck, Connecticut
Facility Contact:	**Veolia Water NA – Northeast, LLC** John Batorski / Plant Manager Tel. No. 203-723-1433 Email: john.batorski@veoliawaterna.com
Regulatory Agency: Contact:	**State of Connecticut** **Department of Energy and Environmental Protection** John Degirolamo / Air Pollution Control Engineer Tel. No. 203-424-3562
Testing Organization:	**CK Environmental, Inc.** 1020 Turnpike Street, Suite 8 Canton, Massachusetts 02021
Project Manager:	Mr. Michael Unterweger / Project Manager Tel. No. 781-828-5200 Email: munterweger@ckc.us
Test Personnel:	Mr. Michael Unterweger / Project Engineer
Unit Tested:	Sludge Incinerator Exhaust Stack
Test Date:	June 18, 2014
Report Date:	July 2, 2014

1.0 INTRODUCTION

1.1 Summary of Test Program

CK Environmental, Inc. (CK) was contracted by Veolia Water North America to conduct a cylinder gas audit (CGA) and an opacity audit on the Continuous Emissions Monitoring System (CEMS) which monitors the emissions at the Fluidized Bed Incinerator located in Naugatuck, Connecticut. The CEMS/COMS monitor the emissions of oxygen, carbon monoxide and opacity from the incinerator operated at this facility. Auditing of the CEMS/COMS was conducted on June 18, 2014.

The purpose of this test program was to demonstrate that the accuracy of the CEMS/COMS operated at this facility and to ensure that it met the acceptance criteria for relative accuracy (RA) as required by the Code of Federal Regulations, Title 40 - Part 60, Appendix F, Section 5.0. The opacity audit was performed to satisfy the quarterly "Performance Specification 1, Section 7.0.

A brief description of the facility is contained in Section 2.0. Section 3.0 of this test report summarizes the results of this testing program. Section 4.0 describes the test methods and procedures used. The CK quality assurance procedures are detailed in Section 5.0. Test field data sheets have been included in Appendix A. Facility CEMS and process data printouts are presented in Appendix B. All relevant calibration documentation has been provided in Appendix C.

1.2 Key Personnel

The test program was coordinated by John Batorski. Mr. Michael Unterweger of CK is the project manager for this effort and was responsible for all on-site audit activities. Contact information for key personnel can be found in Table 1-1 below.

Table 1-1
Key Personnel

Contact	Company	Telephone No.
John Batorski	Veolia Water	203-723-1433
Michael Unterweger	CK Environmental, Inc.	781-828-5200

2.0 PLANT AND SAMPLING SYSTEM DESCRIPTION

2.1 Process Description and Operation

Veolia Water North America Northeast, LLC operates the Borough of Naugatuck POTW which incinerates approximately 51 dry tons of municipal sludge per day and processes nonhazardous industrial waste water. A fluidized bed incinerator (FBI) is used to incinerate sludge. The POTW also houses settling tanks, aeration tanks, thickening tanks, holding tanks, and sludge belt filter presses.

The Zimpro fluidized bed incinerator has a sludge design feed rate of 3.5 DT/hr. Sludge is fed to the bottom of the sand bed where air is injected at high pressure under the bed, fluidizing the sand and the sludge. Processing of sludge within the sand bed consists of evaporation of water and pyrolysis of organic material. The remaining carbon and combustible gases are burned in the freeboard area above the sand bed. Oil lances are located within the sand bed in order to deliver auxiliary fuel to maintain the desired combustion temperature if necessary. All ash generated in the combustion chamber leaves the top of the incinerator.

After the flue gas passes through the waste heat recovery unit, particulate is removed by a combined venturi and impingement tray scrubber system, and wet electrostatic precipitators (WESP). The venturi section consists of a narrow, adjustable throat, which increases gas velocity, turbulence and contact with added water, in order to collect ash particles and acid gases. The impingement tray scrubber provides cool plant effluent, which removes additional particulate and acid gases. There are two identical WESPs located in parallel of which only one operates at any given time.

2.2 Continuous Emission Monitoring System

The continuous emissions/continuous opacity monitoring system is designed to meet the requirements of 40 CFR, §60.13, §60.150 and 40 CFR, Part 503, Subpart E, §503.40., and 40 CFR, Part 60, Appendix B, PS 1. The extractive CEMS transport sample gas from the stack mounted sample probe via heated lines and sample conditioning system to the analyzers for continuous monitoring of gaseous pollutants. Effluent concentrations of carbon monoxide (CO) and oxygen (O2) are measured by the CEM system. In addition, the system monitors opacity at the outlet stack of the FBI.

The CEM sampling system is full dry extractive design. The system extracts a sample from the gas stream through a primary filter located at the sample probe, and transports it from the sampling location to the CEMS analysis enclosure in a heated sample line. The sample lines and filter are maintained at 250 °F to prevent the sample from condensing during transportation to the sample conditioning system. The heated line terminates at a thermo-electric condenser where moisture is removed from the sample gas stream. Dry sample gas exiting the condenser passes through a second particulate filter, the single head heated sample pump, and a backpressure regulator prior to distribution to the analyzers via separate flow controlling rotometers. The sample probe located on the exhaust stack is of sufficient length to reach the center sampling point of the stack.

The moisture removal systems continuously remove moisture from the sample gas while maintaining minimal contact between the condensate and the sample gas. The M&C Tech Group Model ECS

thermoelectric gas sample chiller contains two (2) glass heat exchangers that are continuously drained of condensate by a dual head peristaltic pump. Temperature of the chiller is regulated and set to maintain a temperature of 40 °F.

A single head - heated, diaphragm pump is used to transport the gas sample through the system to the analyzers. This pump is manufactured by Air Dimensions and all parts coming into contact with the sample gas stream are Teflon, Kynar or stainless steel.

The COM system monitors the opacity emissions present in the exit gas of the FBI stack. The COMS utilizes a Land Combustion, Model 4500 Mark II, opacity monitor. This monitor is a microprocessor based system and operates in a dual pass mode in the visible light spectrum. Data collection and daily calibration error checks are performed by the data acquisition handling system (DAHS).

Table 2-1
CEMS Specifications

Parameter	Manufacturer	Model	Serial No.	Range
O2, Dry	Siemens	Oxymat 6E	7MB20211 EAOOOAA 1	0-25%
CO	Thermo Environmental	48i	1405660903	0-300 ppmvd
Opacity	Land	4500 Mark II	0095478	0-100%

A Contec Data Acquisition Handling System (DAHS) uses an Allen Bradley programmable logic controller (PLC), an Ethernet data highway, a Dell computer, and Windows XP operating system. The system is designed to meet 40 CFR §60.13, 40 CFR 60, Subpart 0, section §60.155, 40 CFR, Part 503, Subpart E, sections §503.41 (f), (h) and CTDEP requirements as provided in the Facilities Title V permit.

The Allen Bradley SLC 505 PLC is the foundation of the data collection, data averaging, alarm, and warning functions. These functions are performed in standard ladder logic. Additionally, the PLC is responsible for daily calibration error checking, short-term data storage, and communications over an Ethernet module to the DAHS computer.

The Contec Data Acquisition Handling System software is configured to display pollutants in units of concentration and in units of emissions. The DAHS also collect process data for Subpart "0" reporting requirements. Data is provided on the display screens as 1 minute averages, 6 min averages (opacity only), 1-hour averages, and 24-hour averages. The system performs standard reporting functions including minute, hourly, daily, and monthly reports, daily calibration and system downtime summaries, and source and analyzer downtime reports. Additionally, the Contec software provides the CEMS data in a graphics mode as trend panels, bar graphs, and strip chart displays. The graphic displays show the CEMS data as real-time or as historical trends. The system also displays and record process data as 1-minute, 1-hour, and 24-hour averages.

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3.0 SUMMARY OF RESULTS

3.1 Objectives

The purpose of this test program was to demonstrate that the accuracy of the CEMS/COMS operated at this facility and to ensure that it met the acceptance criteria for relative accuracy (RA) as required by the Code of Federal Regulations, Title 40 - Part 60, Appendix F, Section 5.0. The opacity audit was performed to satisfy the quarterly Performance Specification 1, Section 7.0. The testing satisfies the requirements set forth in the facility's Title V permit (Permit No 109-0059-TV).

3.2 Field Test Changes

All testing was conducted in accordance with the current regulations listed in Section 3.1 of this report. No field changes were necessary for this test program.

3.3 Presentation of Results

A CGA was conducted on the outlet CEMS installed on the incinerator operated at this facility to document the CEMS RA for the second quarter 2014. The CEMS oxygen and carbon monoxide CGA and opacity audits were conducted on June 18, 2014.

The CGA was conducted in accordance with the test procedures and acceptance criteria of 40 CFR 60, Appendix B. All pollutant and diluent gas monitors were each challenged three times with two different calibration standards, a low-audit point and a mid-audit point. The concentrations of audit gases conformed to range specifications defined in 40 CFR 60, Appendix A. The responses of the monitors to the gas standards were recorded by the facility data acquisition and handling system (DAHS) as one-minute averages. The RA of each monitor was determined for each standard as the difference between the average response to the standard, and as a percentage of the standard concentration. The protocol calibration gases were directed into the same location that the gases are sent into for the daily calibrations.

The opacity audit was performed by alternately passing three filters of differing optical density (≈ 10%, 20% and 35%) in to the opacity monitor. The results of the audit were calculated using the average response of the monitor over the passes of the filters. The outcome of the opacity audit is based on the results of five passes of the filters.

Table 3-1 summarizes the test results for each of the parameters of the CEMS. All monitors were able to demonstrate compliance with the acceptance criteria of 40 CFR Part 60, Appendix B of less than or equal to 15 percent of each audit gas standard concentration during the CGA. Table 3-2 summarizes the COMS test results with criteria found in Performance Specification 1 with the opacity monitor reading with less than 3% difference from the corrected filter value.

4.0 SAMPLING AND ANALYTICAL PROCEDURES

4.1 Cylinder Gas Audit Procedure

The CGAs were conducted in accordance with the test procedures and acceptance criteria of 40 CFR 60, Appendix F. All pollutant and diluent gas monitors were each challenged three times with two different calibration standards, a low audit point and a mid-audit point. The responses of the monitors to the gas standards were recorded by the facility data acquisition and handling system (DAHS). The RA of each monitor was determined for each standard as the difference between the average response to the standard and the standard concentration as an absolute difference, and as a percentage of the standard concentration.

4.2 Opacity Audit Procedure

The opacity audit was performed by alternately passing three filters of different known opacity values (9.92, 20.28, and 32.77) in to the opacity monitor. The results of the audit were calculated using the average response of the monitor over the passes of the filters. The outcome of the opacity audit is based on the results of five passes of the filters.

5.0 CK's QUALITY ASSURANCE PROCEDURES

CK's emission test teams are committed to providing high quality source emissions measurement services. To meet this commitment, CK follows appropriate US EPA sampling procedures and implements appropriate quality assurance/quality control (QA/QC) procedures with all test programs. These procedures ensure that all sampling is performed by competent, trained individuals and that all equipment used is operational and properly calibrated before and after use. Records of all CK equipment calibrations are maintained in CK's files.

The CK quality assurance program generally follows the guidelines of the US EPA *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III - Stationary Source-Specific Methods* (EPA/600/R-94/038c - September 1994) as well as CK's in house Quality Manual.

5.1 Sampling

Compressed gases used as audit standards are always US EPA Traceability Protocol certified calibration gas standards, certified in accordance with Procedure No. G1 with an analytical accuracy of +/- 1 percent. The Certificates of Analysis for the gas standards used during the performance of the CGA were available on site and are presented in Appendix C.

All opacity filters are calibrated and certified by Environmental Monitor Service, Inc. Each filter is assigned a serial number and calibrated on an annual basis. All calibration certificates can be found in Appendix C.

5.2 Reporting

All reports undergo a tiered review. The first review of the report and calculations are made by the report's author. A second review is then performed by another Project Engineer/Scientist. The review process is verified by the signed Report Review Certification which has been included as part of this test report.

TABLES

Table 3.1 Summary of Results
Cylinder Gas Audit
FB Incinerator
Veolia Water NA - Naugatuck, CT
Naugatuck, Connecticut
2nd Qtr - 2014

CEMS	Test Date	Monitor	Span / Units	Cylinder Gas Audit				
				Standard Conc.	Average Response	Error (% of std.conc.)	Error (abs. diff.)	CGA Criteria
Oxygen	06/18/14	Siemens	0-25%	5.01	4.90	2.20	0.11	15.0% or 0.5% O_2
				10.00	9.90	1.00	0.10	15.0% or 0.5% O_2
Carbon Monoxide	06/18/14	TECO	0-300 ppm	75.00	76.63	2.18	1.63	15.0% or 5 ppm
				167.80	164.63	1.89	3.17	15.0% or 5 ppm

Table 3.2 Summary of Results

OPACITY AUDIT CALCULATION SHEET

CLIENT: Veolia Water NA - Naugatuck, CT
SOURCE: FB Incinerator

DATE: 6/18/14
AUDITOR: MU

Run #	Zero	Low	Mid	High
1	0.00	7.12	15.19	25.42
2	0.00	7.09	15.09	25.33
3	0.00	7.05	15.24	25.39
4	0.00	7.14	15.25	25.39
5	0.00	7.06	15.27	25.36
6 Min Avg	0.01	7.13	15.13	25.37

	Actual Filter Values		Corrected Filter Values (2)
PATH LENGTH CORRECTION FACTOR (PLCF) =	0.714	-	N/A
LOW CALIBRATION FILTER VALUE =	9.92	-	7.19
MID CALIBRATION FILTER VALUE =	20.28	-	14.94
HIGH CALIBRATION FILTER VALUE =	32.77	-	24.69

N	Low	Value	Delta L	Del L^2
1	7.1	7.2	0.4	0.1
2	7.1	7.2	-0.1	0.0
3	7.1	7.2	-0.1	0.0
4	7.1	7.2	0.0	0.0
5	7.1	7.2	-0.1	0.0
Sum =			0.0	0.2
A = Sum (Delta L) ^ 2 =			0.0	
B = Sum (Delta L ^ 2) =			0.2	
N =			5.0	
(N * B) - A =			0.9	

Mean Error (ME) = (Sum Delta L / N)

ME = **0.0**

Confidence Interval (CI) = SQRT((N*B)-A)*0.2776

CI = **0.3**

Calibration Error = ABS (ME) + CI

Calibration Error (1) = **0.3**

6 Minute Average Mean Error = **-0.1**

N	Mid	Value	Delta L	Del L^2
1	15.2	14.9	0.2	0.1
2	15.1	14.9	0.1	0.0
3	15.2	14.9	0.2	0.1
4	15.3	14.9	0.3	0.1
5	15.3	14.9	0.3	0.1
Sum =			1.3	0.4
A = Sum (Delta L) ^ 2 =			1.8	
B = Sum (Delta L ^ 2) =			0.4	
N =			5.0	
(N * B) - A =			0.1	

Mean Error (ME) = (Sum Delta L / N)

ME = **0.3**

Confidence Interval (CI) = SQRT((N*B)-A)*0.2776

CI = **0.1**

Calibration Error = ABS (ME) + CI

Calibration Error(1) = **0.4**

6 Minute Average Mean Error = **0.2**

N	High	Value	Delta L	Del L^2
1	25.4	24.7	0.7	0.5
2	25.3	24.7	0.6	0.4
3	25.4	24.7	0.7	0.5
4	25.4	24.7	0.7	0.5
5	25.4	24.7	0.7	0.5
Sum =			3.5	2.4
A = Sum (Delta L) ^ 2 =			12.0	
B = Sum (Delta L ^ 2) =			2.4	
N =			5.0	
(N * B) - A =			0.0	

Mean Error (ME) = (Sum Delta L / N)

ME = **0.7**

Confidence Interval(CI)=SQRT((N*B)-A)*0.2776

CI = **0.0**

Calibration Error = ABS (ME) + CI

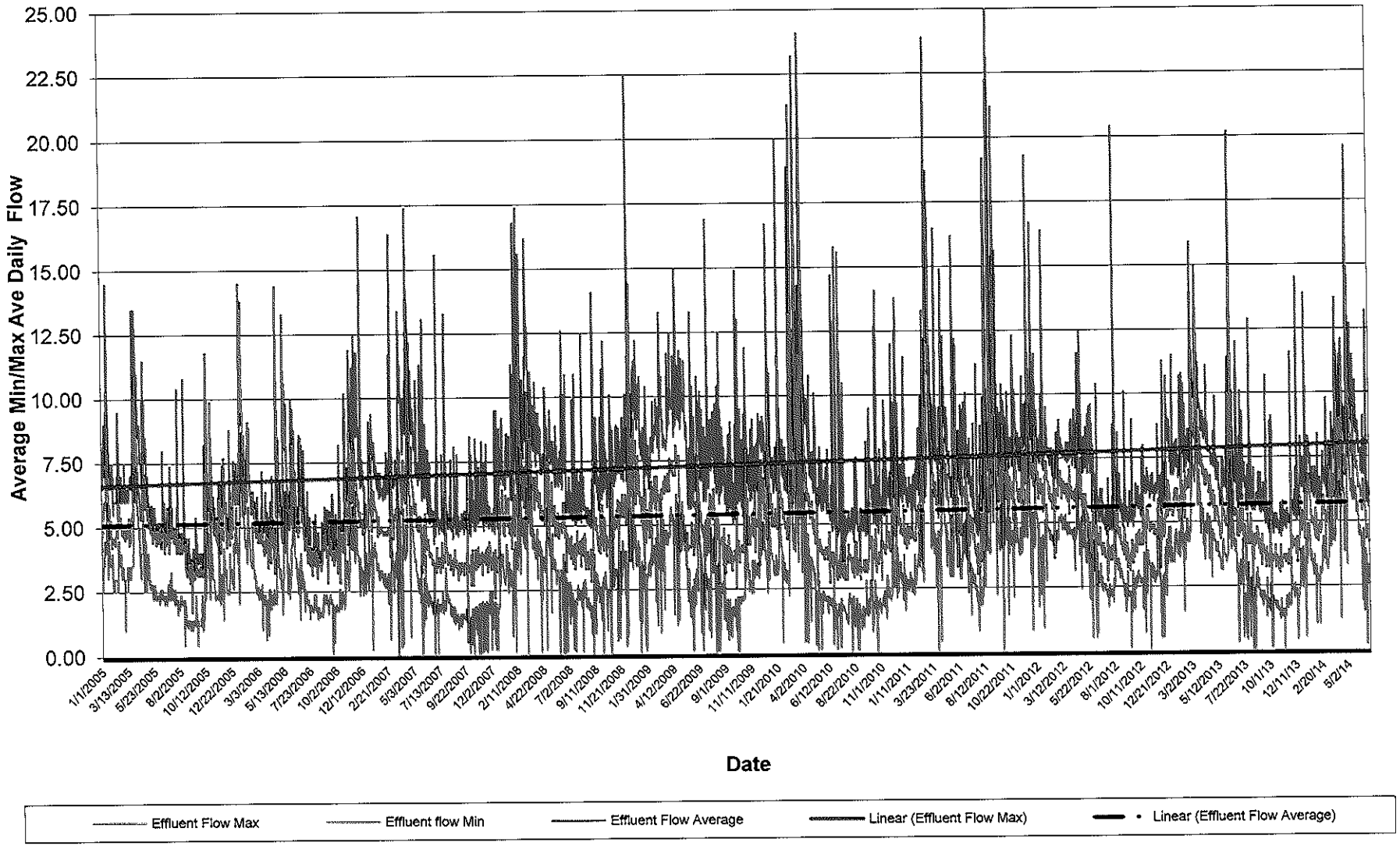
Calibration Error (1) = **0.7**

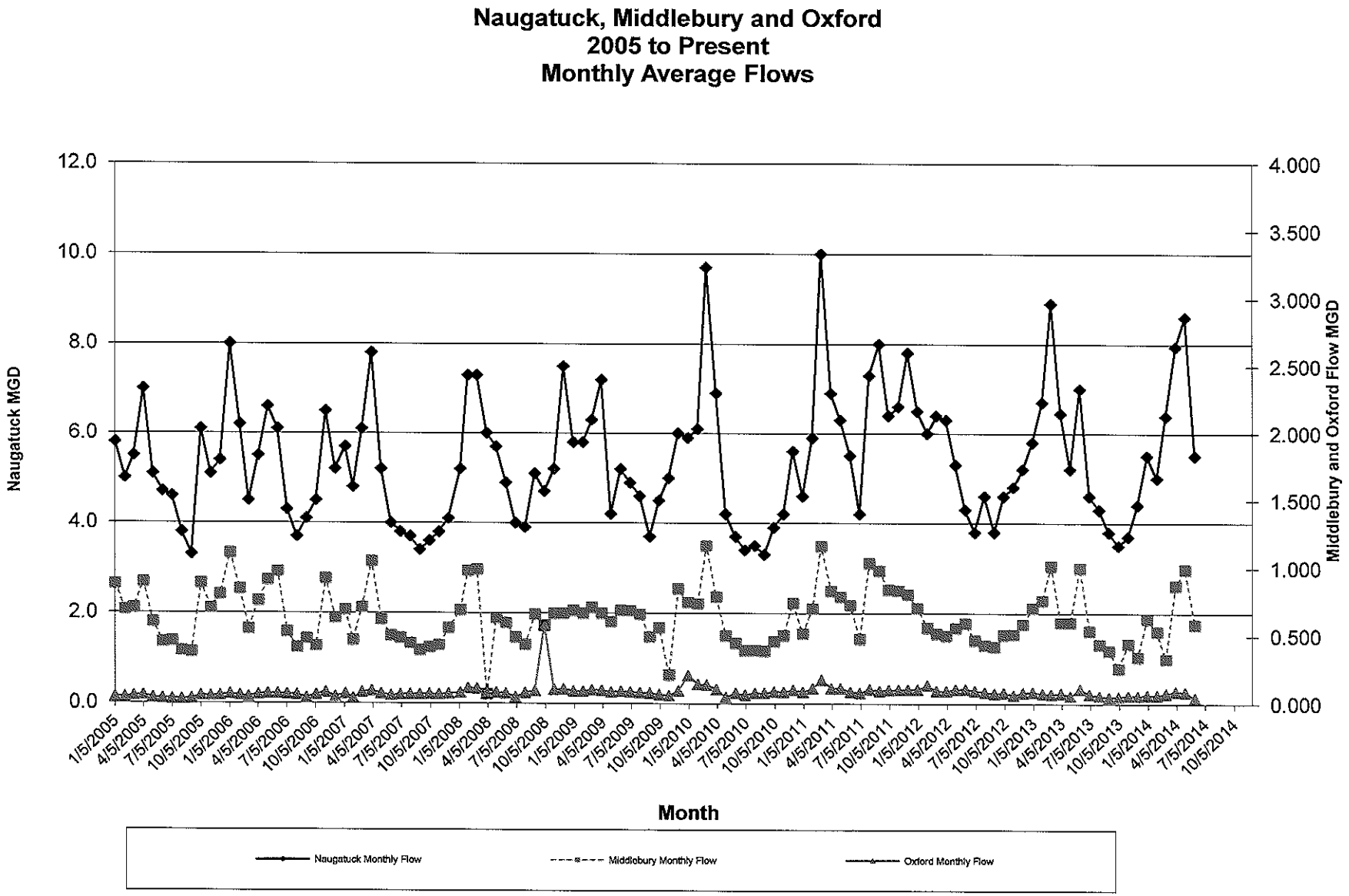
6 Minute Average Mean Error = **0.7**

(1) - Corrected Filter Value = 1-(1-Actual Filter Value)^{PLCF}

where the actual filter value = (Labeled % opacity / 100)

Naugatuck WPCF Daily Min/Max/Total Flow Data
2005 to Present




Naugatuck, Middlebury and Oxford
2005 to Present
Monthly Average Flows
Naugatuck MGD
Middlebury and Oxford Flow MGD
12.0
10.0
8.0
6.0
4.0
2.0
0.0
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
1/5/2005
4/5/2005
7/5/2005
10/5/2005
1/5/2006
4/5/2006
7/5/2006
10/5/2006
1/5/2007
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4/5/2013
7/5/2013
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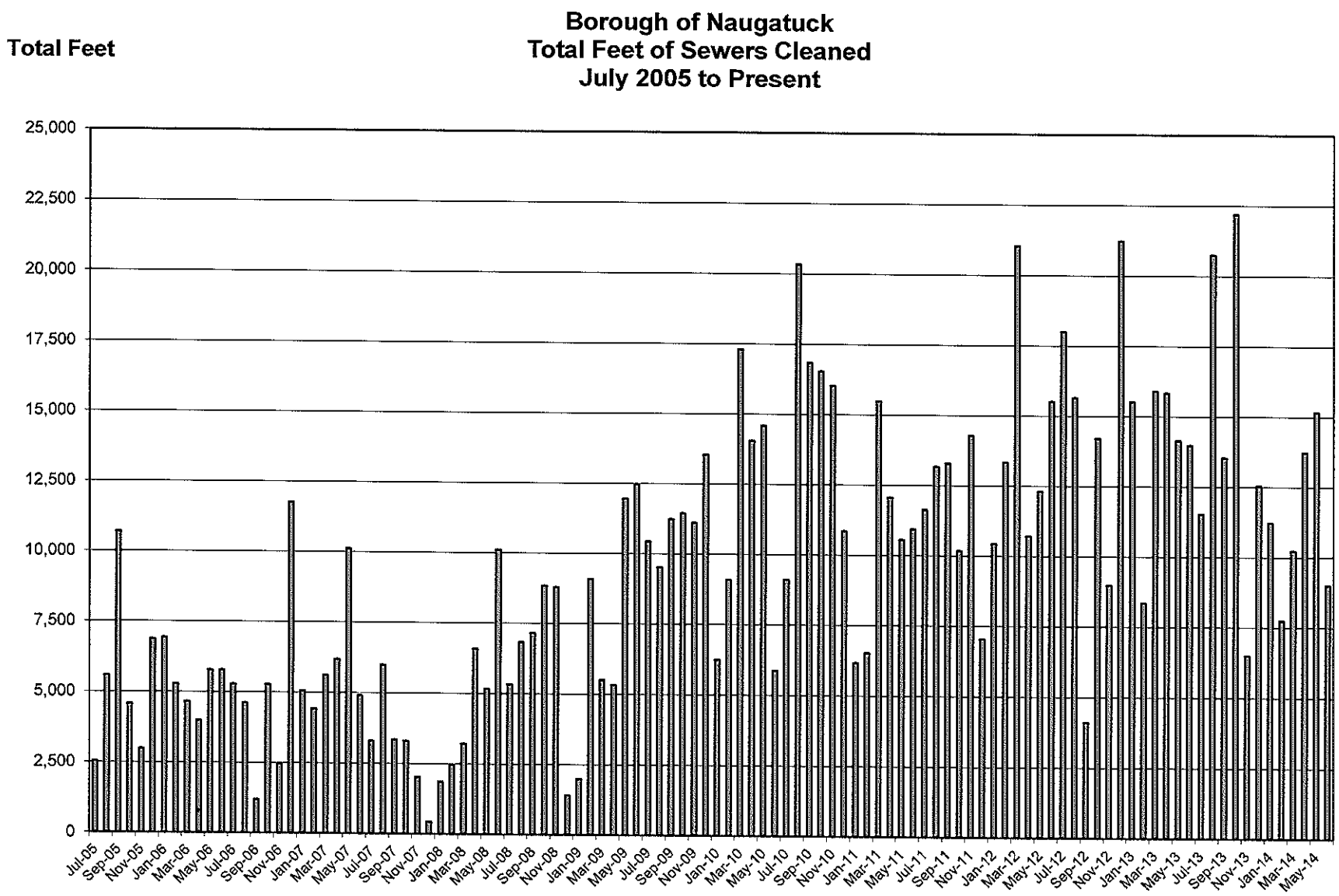
7/5/2014
10/5/2014
Month
Naugatuck Monthly Flow
Middlebury Monthly Flow
Oxford Monthly Flow


Borough of Naugatuck
Total Feet of Sewers Cleaned
July 2005 to Present
Total Feet
25,000
22,500
20,000
17,500
15,000
12,500
10,000
7,500
5,000
2,500
0
Jul-05
Sep-05
Nov-05
Jan-06
Mar-06
May-06
Jul-06
Sep-06
Nov-06
Jan-07
Mar-07
May-07
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Sep-07
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May-12
Jul-12
Sep-12
Nov-12
Jan-13
Mar-13
May-13
Jul-13
Sep-13
Nov-13
Jan-14
Mar-14
May-14

ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 6-14-14 TIME: 6:24 pm

CALL TAKEN BY: _____

NAME OF COMPLAINTANT: Frank Fazzino PHONE NUMBER: 203-996-9381

ADDRESS/LOCATION WHERE ODOR IS BEING DETECTED:
100 Andrasko Rd.

STRENGTH OF ODOR: FAINT ___ NOTICABLE ___ DEFINITE ___ STRONG ___ OVERWHELMING ✓

DESCRIPTION OF ODOR: AMMONIA ___ CABBAGE ___ FECAL ___ FISHY ___ GARLIC ___ MEDICINAL ___ ROTTEN EGGS ___ SKUNKY ___ SOLVENT/FUEL ___ OTHER ___

DOES THE CALLER WANT A FOLLOW-UP CALL? YES ✓ NO ___

DON'T FORGET TO THANK THE CALLER FOR THEIR CONCERN!!

had to shut windows

ODOR INVESTIGATION:

(FROM CONTROL ROOM WEATHER STATION)

WIND DIRECTION: WNW WIND SPEED: 16 WEATHER: TEMP 68 RAIN 0.0 HUMID 67 DRY ___ UNSEASONABLY WARM/COLD ___

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ✓ OFF ___ PH 8.32 ORP 878 MAKE UP WATER: 0.5-1 GPM ✓ SPRAYS ✓

FILTER BLDG SCRUBBER: ON ✓ OFF ___ PH 4.29 ORP 871 MAKE UP WATER: 1-3 GPM ✓ SPRAYS ✓

PERMANGANATE FEEDERS:

AERATION: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ NO ___

SLUDGE STORAGE: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ NO ___

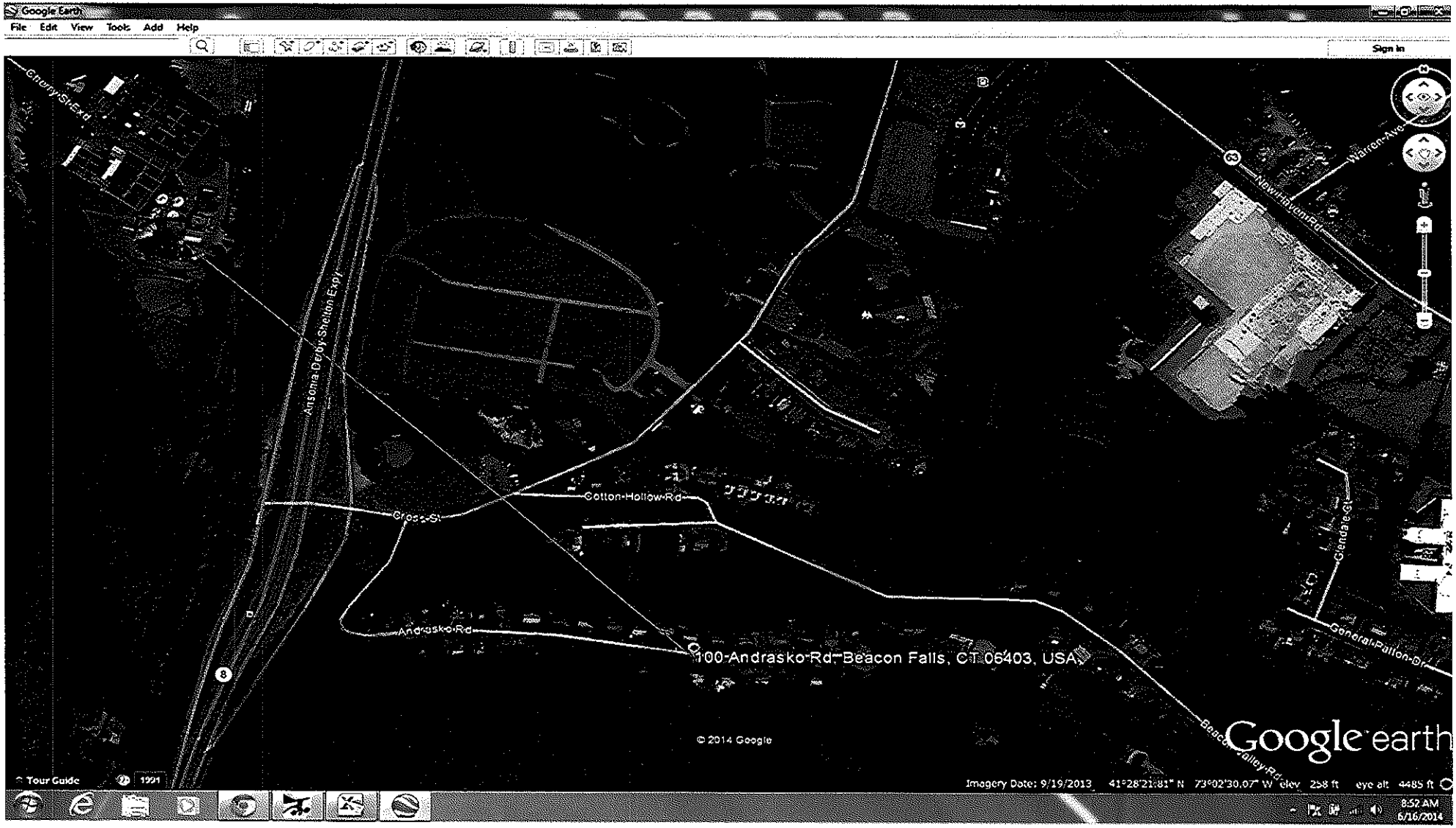
ODOR COUNTERACTANT SYSTEM: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ SPRAYS ✓

COMPLAINT REVIEWED BY: John Batorski DATE: 6-16-14 TIME: —

RETURN CALL MADE BY: Not returned DATE: ___ TIME: ___

RETURN CALL RESULTS:
No plant odors - assume cake truck. (Two trucks parked on site)

63011rev1



0.44 miles from the plant.

WeatherLink 6.0.0 06/16/14 8:57a admin - [Browse Records]

File Setup Reports Browse Window Help

Date	Time	Temp Out	Hi Temp	Low Temp	Out Hum	Dew Pt.	Wind Speed	Wind Dir	Wind Run	Hi Speed	Hi Dir	Wind Chill	Heat Index	THW Index	Bar	Rain	Rain Rate	Heat D-D	Cool D-D	In Temp	In Hum
6/14/14	3:45p	72.0	72.0	71.8	68	60.9	5.0	NW	0.42	12.0	WSW	72.0	72.5	72.5	17.466	0.00	0.00	0.000	0.024	76.3	60
6/14/14	3:50p	71.8	72.1	71.8	66	59.8	9.0	W	0.75	14.0	WSW	70.4	72.1	70.7	17.466	0.00	0.00	0.000	0.024	76.5	60
6/14/14	3:55p	71.8	71.8	71.7	66	59.8	8.0	WNW	0.67	12.0	WNW	71.3	72.1	71.6	17.466	0.00	0.00	0.000	0.024	76.7	61
6/14/14	4:00p	71.8	71.8	71.7	67	60.2	7.0	WNW	0.58	15.0	NW	71.8	72.2	72.2	17.466	0.00	0.00	0.000	0.024	76.7	59
6/14/14	4:05p	72.0	72.1	71.8	66	60.0	9.0	WNW	0.75	15.0	WNW	70.6	72.4	71.0	17.466	0.00	0.00	0.000	0.024	76.5	59
6/14/14	4:10p	71.7	72.0	71.7	67	60.2	8.0	WNW	0.67	13.0	NW	71.2	72.1	71.6	17.466	0.00	0.00	0.000	0.023	76.7	60
6/14/14	4:15p	71.5	71.7	71.5	66	59.5	9.0	WNW	0.75	13.0	W	70.1	71.7	70.3	17.466	0.00	0.00	0.000	0.023	76.9	61
6/14/14	4:20p	71.6	71.6	71.5	69	60.9	7.0	W	0.58	12.0	WNW	71.6	72.1	72.1	17.466	0.00	0.00	0.000	0.023	76.9	59
6/14/14	4:25p	71.6	71.7	71.5	66	59.6	10.0	NW	0.83	15.0	NW	69.5	71.8	69.7	17.466	0.01	0.00	0.000	0.023	76.5	59
6/14/14	4:30p	71.4	71.6	71.3	67	59.9	10.0	WNW	0.83	21.0	NW	69.3	71.6	69.5	17.466	0.00	0.00	0.000	0.022	76.5	60
6/14/14	4:35p	71.2	71.4	71.2	66	59.3	10.0	WNW	0.83	16.0	W	69.1	71.3	69.2	17.466	0.00	0.00	0.000	0.022	76.9	60
6/14/14	4:40p	71.0	71.2	71.0	65	58.6	13.0	WNW	1.08	20.0	NW	67.5	70.9	67.4	17.466	0.00	0.00	0.000	0.021	76.9	59
6/14/14	4:45p	70.9	71.0	70.9	65	58.5	13.0	NW	1.08	19.0	NW	67.4	70.8	67.3	17.466	0.00	0.00	0.000	0.020	76.7	58
6/14/14	4:50p	70.8	70.9	70.8	66	58.9	12.0	WNW	1.00	18.0	WNW	67.7	70.8	67.7	17.466	0.00	0.00	0.000	0.020	76.5	59
6/14/14	4:55p	70.8	70.9	70.8	65	58.4	11.0	WNW	0.92	20.0	WNW	68.2	70.7	68.1	17.466	0.00	0.00	0.000	0.020	76.7	60
6/14/14	5:00p	70.9	71.0	70.8	64	58.1	9.0	NW	0.75	16.0	W	69.5	70.7	69.3	17.466	0.00	0.00	0.000	0.020	77.1	59
6/14/14	5:05p	71.1	71.1	70.9	65	58.7	8.0	NW	0.67	14.0	NW	70.6	71.0	70.5	17.466	0.00	0.00	0.000	0.021	76.9	58
6/14/14	5:10p	71.3	71.3	71.1	65	58.9	8.0	WNW	0.67	19.0	WNW	70.8	71.3	70.8	17.466	0.00	0.00	0.000	0.022	76.5	59
6/14/14	5:15p	70.9	71.3	70.9	64	58.1	11.0	WNW	0.92	23.0	WNW	68.3	70.7	68.1	17.466	0.00	0.00	0.000	0.020	76.7	59
6/14/14	5:20p	70.4	70.9	70.4	66	58.5	10.0	NW	0.83	23.0	WNW	68.3	70.3	68.2	17.466	0.00	0.00	0.000	0.019	76.9	60
6/14/14	5:25p	70.3	70.4	70.3	64	57.5	14.0	WNW	1.17	22.0	W	66.4	70.0	66.1	17.466	0.00	0.00	0.000	0.018	76.9	58
6/14/14	5:30p	70.2	70.3	70.2	65	57.9	13.0	NW	1.08	21.0	NNW	66.7	69.9	66.4	17.466	0.00	0.00	0.000	0.018	76.5	59
6/14/14	5:35p	69.9	70.2	69.9	64	57.2	13.0	WNW	1.08	19.0	WNW	66.4	69.5	66.0	17.466	0.00	0.00	0.000	0.017	76.7	59
6/14/14	5:40p	70.1	70.1	69.9	66	58.2	7.0	WNW	0.58	12.0	W	70.1	69.9	69.9	17.466	0.00	0.00	0.000	0.018	76.9	60
6/14/14	5:45p	70.0	70.1	69.9	66	58.1	9.0	WNW	0.75	19.0	WNW	68.6	69.8	68.4	17.466	0.00	0.00	0.000	0.017	77.1	59
6/14/14	5:50p	69.7	70.0	69.7	65	57.4	10.0	W	0.83	15.0	WNW	67.6	69.5	67.4	17.466	0.00	0.00	0.000	0.016	76.7	58
6/14/14	5:55p	69.4	69.7	69.4	65	57.1	9.0	W	0.75	16.0	WNW	68.0	69.2	67.8	17.466	0.00	0.00	0.000	0.015	76.7	59
6/14/14	6:00p	69.1	69.4	69.1	64	56.4	10.0	WNW	0.83	18.0	NW	67.0	68.9	66.8	17.466	0.00	0.00	0.000	0.014	76.9	60
6/14/14	6:05p	68.9	69.1	68.9	66	57.1	8.0	WNW	0.67	14.0	WSW	68.2	68.9	68.2	17.466	0.00	0.00	0.000	0.014	77.3	59
6/14/14	6:10p	68.4	68.9	68.4	66	56.6	9.0	W	0.75	16.0	WNW	67.0	68.6	67.2	17.466	0.00	0.00	0.000	0.012	76.9	57
6/14/14	6:15p	68.0	68.3	68.0	67	56.6	8.0	W	0.67	19.0	W	67.3	68.4	67.7	17.466	0.00	0.00	0.000	0.010	76.7	58
6/14/14	6:20p	68.1	68.1	68.0	67	56.7	10.0	WNW	0.83	16.0	W	66.0	68.4	66.3	17.466	0.00	0.00	0.000	0.011	76.9	59
6/14/14	6:25p	68.1	68.1	68.1	66	56.3	12.0	WNW	1.00	20.0	NW	65.0	68.4	65.3	17.466	0.00	0.00	0.000	0.011	77.1	59
6/14/14	6:30p	68.0	68.1	68.0	65	55.8	12.0	WNW	1.00	19.0	WNW	64.9	68.2	65.1	17.466	0.00	0.00	0.000	0.010	77.1	57
6/14/14	6:35p	68.0	68.0	67.9	67	56.6	10.0	WNW	0.83	16.0	WNW	65.9	68.4	66.3	17.466	0.00	0.00	0.000	0.010	76.7	57
6/14/14	6:40p	67.9	68.0	67.9	67	56.5	12.0	WNW	1.00	22.0	WNW	64.8	68.2	65.1	17.466	0.00	0.00	0.000	0.010	76.7	58
6/14/14	6:45p	67.6	68.0	67.6	66	55.8	10.0	WNW	0.83	19.0	W	65.5	67.8	65.7	17.466	0.00	0.00	0.000	0.009	76.9	59
6/14/14	6:50p	67.2	67.6	67.2	67	55.9	11.0	W	0.92	20.0	W	64.6	67.4	64.8	17.466	0.00	0.00	0.000	0.008	77.1	57
6/14/14	6:55p	66.9	67.2	66.9	68	56.0	9.0	W	0.75	19.0	WNW	65.6	67.1	65.8	17.466	0.00	0.00	0.000	0.007	76.7	57
6/14/14	7:00p	66.7	66.9	66.6	68	55.8	9.0	W	0.75	18.0	WSW	65.4	66.9	65.6	17.466	0.00	0.00	0.000	0.006	76.5	58
6/14/14	7:05p	66.6	66.7	66.6	66	54.9	8.0	WNW	0.67	16.0	WNW	66.0	66.6	66.0	17.466	0.00	0.00	0.000	0.006	76.7	58
6/14/14	7:10p	66.3	66.6	66.3	67	55.0	12.0	WNW	1.00	19.0	WNW	63.0	66.3	63.0	17.466	0.00	0.00	0.000	0.005	76.9	58
6/14/14	7:15p	65.8	66.3	65.8	67	54.5	12.0	WNW	1.00	20.0	WNW	62.4	65.7	62.3	17.466	0.00	0.00	0.000	0.003	76.7	56
6/14/14	7:20p	65.5	65.8	65.5	68	54.7	9.0	WNW	0.75	16.0	W	64.2	65.5	64.2	17.466	0.00	0.00	0.000	0.002	76.5	57
6/14/14	7:25p	65.4	65.6	65.4	67	54.2	10.0	NW	0.83	20.0	WNW	63.3	65.3	63.2	17.466	0.00	0.00	0.000	0.001	76.5	58
6/14/14	7:30p	65.2	65.4	65.2	68	54.4	9.0	WNW	0.75	15.0	WNW	63.8	65.1	63.7	17.466	0.00	0.00	0.000	0.001	76.7	58
6/14/14	7:35p	65.0	65.2	65.0	68	54.2	9.0	NW	0.75	16.0	W	63.6	64.9	63.5	17.466	0.00	0.00	0.000	0.000	77.1	58
6/14/14	7:40p	64.7	65.0	64.7	68	53.9	8.0	WNW	0.67	13.0	WNW	64.0	64.5	63.8	17.466	0.00	0.00	0.001	0.000	77.3	57
6/14/14	7:45p	64.5	64.7	64.5	69	54.1	6.0	WNW	0.50	10.0	WNW	64.5	64.3	64.3	17.466	0.00	0.00	0.002	0.000	76.9	56
6/14/14	7:50p	64.3	64.5	64.3	70	54.3	6.0	W	0.50	10.0	WNW	64.3	64.3	64.3	17.466	0.00	0.00	0.002	0.000	76.9	57

ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 6-17-14 TIME: 4:33 pm

CALL TAKEN BY: Message

NAME OF COMPLAINTANT: Mrs. Surdel PHONE NUMBER: 203-729-8831

ADDRESS/LOCATION WHERE ODOR IS BEING DETECTED:
31 Bear Paw Rd

STRENGTH OF ODOR: FAINT ___ NOTICABLE ___ DEFINITE ___ STRONG ✓ OVERWHELMING ___

DESCRIPTION OF ODOR: AMMONIA ___ CABBAGE ___ FECAL ___ FISHY ___ GARLIC ___ MEDICINAL ___ ROTTEN EGGS ___ SKUNKY ___ SOLVENT/FUEL ___ OTHER ___

DOES THE CALLER WANT A FOLLOW-UP CALL? YES ✓ NO ___

DON'T FORGET TO THANK THE CALLER FOR THEIR CONCERN!!

ODOR INVESTIGATION:

(FROM CONTROL ROOM WEATHER STATION)

WIND DIRECTION: ESE WIND SPEED: 9.0 WEATHER: TEMP 83.1 RAIN 0.0 HUMID 73 DRY ___ UNSEASONABLY WARM/COLD ___

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:
No plant odors - caller was upwind of the facility

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ✓ OFF ___ PH 8.83 ORP 868 MAKE UP WATER: 0.5-1 GPM ✓ SPRAYS ___

FILTER BLDG SCRUBBER: ON ✓ OFF ___ PH 8.09 ORP 812 MAKE UP WATER: 1-3 GPM ✓ SPRAYS ___

PERMANGANATE FEEDERS:

AERATION: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ NO ___

SLUDGE STORAGE: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ NO ___

ODOR COUNTERACTANT SYSTEM: ON ✓ OFF ___ VERIFIED OPERATIONAL: YES ✓ SPRAYS ___

COMPLAINT REVIEWED BY: Chris Matuch DATE: 6-18 TIME: ~ 10AM

RETURN CALL MADE BY: " " DATE: " TIME: "

RETURN CALL RESULTS:
Went to residents home. Spoke with Mrs Surdel and it seems that she might have issues with her septic system since there was a faint smell of raw sewage inside her home. Bear Paw Rd does not have a sewer line but the two connecting streets do. Collections will check manholes for any irregularities.

Google Earth
File Edit View Tools Add Help
31 Bear PAw Road Naugatuck, CT
Naugatuck
Woodland St
Woodcrest Dr
Mulberry Reservoir
Mulberry St
Sunburst Rd
Maple Hill Rd
Fawn Meadow Dr
Visconti Dr
Kingswood Dr
31 Bear Paw Rd, Naugatuck, CT 06
Candee Reservoir
Celentano Dr
Garriage Dr
Nisteria Dr
Darcangelo Dr
Village Cir
Nicole Dr
Osborn Rd
Warren Ave
Hazel Ave
Laurel Ave
Weld Dr
Glendale Ct
General Patton Dr
Beacon Valley Rd
Concord Ct
Essex Ct
Beacon Manor Rd
Hillview St
Fairwood Rd
Hackett St
Valley Dr
Country Hill Rd
Fox Hill Rd
New Haven Rd
Cross St
Ansonia Derby Shelton Expy
Spencer St
Pleasant Ave
Charles St
Elm St
Fairchild St
Hard St
Gorman St
Cherry St
Waro St
S Main St
High St
2.1 miles from plant
© 2014 Google
Tour Guide
1991
Imagery Date: 9/19/2013 41°28'54.97" N 73°03'12.49" W elev 227 ft

ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 6-23-14 TIME: 9:14 PM

CALL TAKEN BY: Odor hotline

NAME OF COMPLAINTANT: Ed Iadorola PHONE NUMBER: 203-768-4970

ADDRESS/LOCATION WHERE ODOR IS BEING DETECTED: 497 Cherry St. Ext.

STRENGTH OF ODOR: FAINT ___ NOTICABLE ___ DEFINITE ___ STRONG ✓ OVERWHELMING ___

DESCRIPTION OF ODOR: AMMONIA ___ CABBAGE ___ FECAL ___ FISHY ___ GARLIC ___ MEDICINAL ___ ROTTEN EGGS ___ SKUNKY ___ SOLVENT/FUEL ___ OTHER raw sewage

DOES THE CALLER WANT A FOLLOW-UP CALL? YES ___ NO ___ - didn't say

DON'T FORGET TO THANK THE CALLER FOR THEIR CONCERN!!

ODOR INVESTIGATION:

(FROM CONTROL ROOM WEATHER STATION)

WIND DIRECTION: ___ WIND SPEED: ___ WEATHER: TEMP ___ RAIN ___ HUMID ___ DRY ___ UNSEASONABLY WARM/COLD ___

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ✓ OFF ___ PH 8.6 ORP 883 MAKE UP WATER: 0.5-1 GPM ✓ SPRAYS ___

FILTER BLDG SCRUBBER: ON ✓ OFF ___ PH 8.6 ORP 750 MAKE UP WATER: 1-3 GPM ✓ SPRAYS ___

PERMANGANATE FEEDERS:

AERATION: ON ✓ OFF ___ VERIFIED OPERATIONAL (YES) ___ NO ___

SLUDGE STORAGE: ON ✓ OFF ___ VERIFIED OPERATIONAL: (YES) ___ NO ___

ODOR COUNTERACTANT SYSTEM: (ON) ___ OFF ___ VERIFIED OPERATIONAL (YES) ___ SPRAYS OK

COMPLAINT REVIEWED BY: John Batorski DATE: 6-24-14 TIME: 9 AM

RETURN CALL MADE BY: John Batorski DATE: 6-24-14 TIME: ~9 AM

RETURN CALL RESULTS:

Spoke to Mr. Iadorola regarding the complaint. We had sludge enter an empty tank which caused some odors. A fastener broke on a conveyor and some sludge leaked out. We believe that may have caused the odor. In addition, a 20 TON AC unit failed and a door was left open. The AC units would be repaired in 48 hrs.

63011rev1

ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 6/29/14 TIME: 8:05 am + 4:17 pm

CALL TAKEN BY: odor hotline

NAME OF COMPLAINTANT: Ed Iadorola PHONE NUMBER: 203-768-4970

ADDRESS/LOCATION WHERE ODOR IS BEING DETECTED: 497 Cherry St. Ext

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STRENGTH OF ODOR: FAINT ___ NOTICABLE ___ DEFINITE ___ STRONG ✓ OVERWHELMING ___

DESCRIPTION OF ODOR: AMMONIA ___ CABBAGE ___ FECAL ___ FISHY ___ GARLIC ___ MEDICINAL ___ ROTTEN EGGS ___ SKUNKY ___ SOLVENT/FUEL ___ OTHER ___

DOES THE CALLER WANT A FOLLOW-UP CALL? YES ✓ NO ___

DON'T FORGET TO THANK THE CALLER FOR THEIR CONCERN!!

ODOR INVESTIGATION:

(FROM CONTROL ROOM WEATHER STATION) 4:17pm ESE - 79°F, 21MPH -

8AM 66°F - 7MPH

WIND DIRECTION: ESE WIND SPEED: ___ WEATHER: TEMP ___ RAIN 0 HUMID ___ DRY ___

UNSEASONABLY WARM/COLD ___

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ___ OFF ___ PH ___ ORP ___ MAKE UP WATER: 0.5-1 GPM ___ SPRAYS ___

FILTER BLDG SCRUBBER: ON ___ OFF ___ PH ___ ORP ___ MAKE UP WATER: 1-3 GPM ___ SPRAYS ___

PERMANGANATE FEEDERS:

AERATION: ON ___ OFF ___ VERIFIED OPERATIONAL: YES ___ NO ___

SLUDGE STORAGE: ON ___ OFF ___ VERIFIED OPERATIONAL: YES ___ NO ___

ODOR COUNTERACTANT SYSTEM: ON ___ OFF ___ VERIFIED OPERATIONAL: YES ___ SPRAYS ___

COMPLAINT REVIEWED BY: Tom Bartorski DATE: 6-30-14 TIME: ~2 PM

RETURN CALL MADE BY: ___ DATE: ___ TIME: ___

RETURN CALL RESULTS:

Cake truck ~ 8AM } odor attributed to cake load. Mr. Iadorola stated he
" " ~ 4PM } is fed up with the odors. He stated he called the Mayor and may call the local news station. He wants the reporter to smell the odor live on the 6PM or 11PM news. I discussed the Facility Plan, ~$86 million, w/$6 million remissionate. Basically, he stated he pays the same taxes as everyone, yet they have no odors.