VEOLIA

August 11, 2016

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

Re: **July 2016 Monthly Operating Report**

Dear Mr. Merancy:

Enclosed please find Veolia Water's Monthly Operating Report for the month of July 2016.

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, Jeffrey Hanson, James R. Stewart PE, LS, Director of Public Works, Borough of Naugatuck, Kathleen Luvisi, Senior Environmental Engineer, Alternative Resources, Inc.

(enclosure)

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

Borough of Naugatuck
Monthly WPCF Report July 2016

This report summarizes the activities at the Borough POTW for July 2016:

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.	-	301
Effluent Avg.	30	5
Removal Efficiency	85%	98%

Plant Process Data*	Limit	Actual
Carbonaceous BOD (mg/l)		
Influent Avg.	-	289
Eff Avg(Nov 1 – May 31)	25	
Eff Avg(June – Oct 31)	15	4
Removal Efficiency	85%	99%

Discharge Permit Exceedance: None

	Naugatuck	Middlebury	Oxford	OTR
July Flow Avg. (MGD)	3.3	0.334	0.042	N/A
Sludge Liquid Total (MGal)				7224.5
Sludge Cake Total (Wet Tons)				2780.8
Septage Total (MGal)	42,600	47,000	170,150	561,300

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

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

1. **Compliance & Regulatory Issues**
   a. Meetings, site visits, and telephone conferences were held in July regarding the Naugatuck incinerator MACT upgrade. SO_2 and NO_X analyzers have been rented and are operational (the data can be downloaded for analysis).
2. **Odor Complaints**
   a. There was 1 odor complaint in July.
3. **Personnel**
   a. The vacant maintenance positions have been filled.
   b. Recruiting for the vacant operator position is ongoing. The initial applicant resigned after 4 days to accept a position at another facility (no weekends or shift work).
4. **Health & Safety**
   a. Monthly safety meetings were held.
   b. Safety training specific to emergency thermal fluid operational training and incinerator operations was provided to the staff. There were 4 classes scheduled to provide a small class size, work around 24/7 scheduling and

to provide ample time for questions and answers. Classes are scheduled through September.

5. **Operational Information**
    a. The PLC card that monitors thermal dryer temperatures and weights malfunctioned and was replaced.
    b. A single sprinkler head malfunctioned (spraying water) on July 26 which shut down the incinerator. As a result of the failed PLC board and sprinkler head issue, the discs on the thermal dryer had sludge baked on them resulting in a poor heat transfer. The discs were cleaned.
    c. The secondary scrubber was cleaned on July 11. All of the packing was removed, cleaned and placed back in the scrubber.
    d. Staff training on the new MACT regulations has been scheduled. The first of four classes took place on Aug 1, 2016.
6. **Collections**
    a. No report.
7. **Maintenance**
    a. The main electric hot water tank failed for the employee locker room and was replaced.
    b. Critical spare parts for the Spirac conveyors were ordered.
    c. A PLC card that controls the thermal dryer failed and was replaced.
    d. A low temperature sprinkler head failed and was replaced with a higher rated head.

8. **Capital Projects**
    a. Planning has started for the incinerator MACT upgrade.

Borough of Naugatuck
Collections Systems Report
July 2016

VEOLIA WATER

	Calls for Service
1	7/13 - 25 Country Hill Rd - Condos responsibility
2	7/19 - 23 Olive St - Lateral issues
3	
4	
5	
6	

This Month	Year to Date
2	2

	Calls Caused By Collection System
1	None
2	
3	
4	

Reason

	Video Inspections	Type	Footage
1	Street Name		
2	Olive St	cctv	200
3	Andrew Ave Ext End to 9-95I	cctv	180
4	Andrew Ave Ext 9-95I to 9-95H	cctv	140
5	Andrew Ave Ext 9-95H to 9-95G	cctv	75
6	Andrew Ave Ext 9-95G to 9-95F	cctv	140
7			
8			
9			

This Month		Year to Date	
735	Feet	735	Feet

6 month list
Call for service
Officer used

	High Velocity Cleaning	Date	Footage	Officers	Cars	Total Hours
	Street Name					
1	Casper Ct 6-126A to 6-127	7/7/2016	510			
2	Craige Cir	7/7/2016	350			
3	Chestnut Cir 6-285 to 6-290	7/7/2016	300			
4	May Ave 6-291 to 6-299	7/7/2016	220			
5	Trowbridge Pl 9-181 to 9-182	7/12/2016	400			
6	Southview St 9-193A to 9-193C	7/12/2016	300			
7	Fern St 6-294 to 6-296	7/13/2016	480			
8	George St 9-195 to 9-196	7/13/2016	325			
9	Park Ave 6-271 to 6-272	7/14/2016	500			
10	Quinn St 6-235 to 6-234	7/14/2016	305			
11	Quinn St 6-171 to 6-171A	7/20/2016	525			
12	Quinn St 6-236 to 6-238	7/20/2016	620			
13	Quinn St 6-293A to 6-293	7/20/2016	305			
14	Albion St End to 7-240	7/21/2016	400			
15	Morris St End to 7-240	7/21/2016	200			
16	Morris St 7-240 to 7-222	7/21/2016	250			
17	Morris St 7-219 to 7-213	7/25/2016	880			
18	Morris St 7-213 to 7-211	7/25/2016	580			
19	Alma St End to 7-221	7/26/2016	650			
20	Bailey St 11-37 to 11-34	7/26/2016	675			
21	Longview Ter 11-39 to 11-34	7/26/2016	350			
22	Pembrook Rd no m/h #s	7/27/2016	480			
23	Cobblestone Ct no m/h #s	7/27/2016	450			
24	Carriage St 10-240 to 10-238	7/28/2016	680			
25	Tudor Ln 10-241 to 10-238	7/28/2016	280			
26	Tudor Ln 10-238 to 10-237A	7/28/2016	400			
27	Tudor/Celentano easement 10-237A to 10-237	7/28/2016	200			
28						

This Month		Year to Date	
11615	Feet	11615	Feet

	Root Treatment Street Name	Type	Footage	Officers	Date	Total Hours	Officer Used
1	Chestnut St 6-290 to 6-285	Chemical	260	1	7/26/2016	0.5	
2	Chestnut St 6-290A to 6-290	Chemical	260	1	7/26/2016	0.5	
3	Cherry St 9-72 to 9-53	Chemical	155	1	7/26/2016	0.5	
4	Cherry St 9-73 to 9-72	Chemical	243	1	7/26/2016	0.5	
5	Fairview Ave 9-195 to 9-194	Chemical	745	1	7/26/2016	0.5	
6	Harvest Ln 10-218 to 10-216	Chemical	280	1	7/26/2016	0.5	
7	Hill Top Rd 6-259B to 6-259A	Chemical	380				
8	Hill Top Rd 6-259A to 6-259	Chemical	255				
9	New St 6-314 to 6-300A	Chemical	290				
10	Church St 7-24A to 7-24	Chemical	155				
11	Park Ave 6-174 to 6-165	Chemical	210	1	7/26/2016	0.5	
12	Pearl Rd 6-338A to 6-338	Chemical	420				
13	Sunset Dr End to 6-121	Chemical	225				
14	Terrace Ave 7-33 to 7-31A	Chemical	425	1	7/26/2016	0.5	
15	Terrace Ave 6-334 to 6-334A	Chemical	488				Total Officer Hours
16	Lounsburry Lateral	Chemical	150				4
17							

This Month	
4941	Feet

Year to Date	
4941	Feet

	Pump Station Services Work performed	Location	Date	Notes
1	Weekly Pump Station Checks	All 5	7/1/2016	Used Permanganate for odor control at Maple/May
2	Weekly Pump Station Checks	All 5	7/8/2016	Cleaned floats
3	Weekly Pump Station Checks	All 5	7/15/2016	Cleaned floats, used Permanganate at Maple/May
4	Weekly Pump Station Checks	All 5	7/22/2016	Cleaned floats, landscaped Platts Mills
5	Weekly Pump Station Checks	All 5	7/29/2016	Cleaned floats
6				
7				

PUMP RUN TIMES STATION		HOURS Pump 1	Pump 2	Pump 3
Inwood	End Reading	994.4	1220.3	719.2
	Start Reading	949.9	1180.1	674.7
	Hrs Run	44.5	40.2	44.5

PUMP RUN TIMES STATION		HOURS Pump 1	Pump 2
MAPLE & MAY	End Reading	4044	3236
	Start Reading	4000.7	3193
	Hrs Run	43.3	43

PUMP RUN TIMES STATION		HOURS Pump 1	Pump 2	Flow Meter
Platts Mill	End Reading	4859	8571.3	5257312
	Start Reading	4858.4	8360.7	4962089
	Hrs Run	0.6	210.6	295223

#2 pump is lead pump.
Lag pump has inadequate pipe length for accurate flow readings.

PUMP RUN TIMES STATION		HOURS Pump 1	Pump 2
Hopbrook	End Reading	1552	1104.9
	Start Reading	1520.6	1047.4
	Hrs Run	31.4	57.5

PUMP RUN TIMES STATION		HOURS Pump 1	Pump 2
HORTON HILL	End Reading	9164.7	10797.9
	Start Reading	9102.5	10745.8
	Hrs Run	62.2	52.1

Vac Truck Information

Days out of the plant working		
This Month	YTD	Remaining
11	11	139

Fuel Information	Fuel Cost	Fuel Used			
	$165.72	62.8	Gallons	YTD Gallons	
			Gallons	62.8	Gallons
			Gallons		
			Gallons	YTD Fuel Cost	
This Months Total	$165.72	62.8	Gallons	$165.72	

	Mileage		Engine Hours
Month Start	200033.4	Month Start	6475.6
Month End	200546.8	Month End	6510.6
Total	513.4	Total	35

Utility Truck Information	Fuel Cost	Fuel Used		
	$81.22	31.98	Gallons	YTD Gallons
	$83.05	32.7	Gallons	64.68
			Gallons	
			Gallons	YTD Fuel Cost
			Gallons	$164.27
This Months Total	$164.27	64.68	Gallons	

Other tasks and notes

1	07/01 - Vacuumed out primary skimmings, 1 load.
2	07/05 - Pulled #2 pump at Platts Mills pumpstation to de-rag and clean. Tested pump.
3	07/06 - Vacuumed out primary skimmings. Disassembled and then reassembled main water feed line on the front reel of the Vac truck with new 90 degree fitting and on/off 3 way valve.
4	07/08 - Finished painting the Maple/May pumpstation building. Vacuumed out primary skimmimgs, 1 load.
6	07/12 - Vacuumed out primary skimmings, 1 load.
7	07/13 - Vacuumed out and cleaned Hopbrook pumpstations wetwell.
8	07/14 - Vacuumed out and cleaned the septic drop curtain drain.
9	07/15 - Replaced the Vac Trucks air valve for the on/off switch to the blower.
10	07/18 - Brought new pump and rail hardware to Maple/May pumpstation. Fitted the new top rail bracket to pump #1 rails. Found and marked out sewer line at the top of Andrew Mt Ext.
11	07/19 - Installed new power inverter in the Service Truck. Changed hydro filters on the Vac Truck.
12	07/20 - Vacuumed out primary skimmings, 1 load.
14	07/25 - Pulled # 2 pump at Hopbrook to de-rag and clean. Set and tested pump. Assisted Dukes Root Control.
15	07/26 - Assisted Dukes Root Control.
16	07/27 - Root treated the Lounsburry lateral.
17	07/29 - Adjusted #2 pump at Hopbrook due to a leaking discharge pipe. Pulled #2 pump at Platts Mills pumpstation to de-rag and clean. Tested pump.
18	
19	
	Non - Contracual Work
20	7/19/16 - Vacuumed out and peformed CTTV work on lateral line at 23 Olive St.
21	

VEOLIA

Sent Certified mail #7014 1200 0002 2237 0346 on August 12, 2016

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

August 12, 2016

Re: July 2016 Reports for Naugatuck, CT WPCF, NPDES # CT0100641

Dear Sir/Madam:

Enclosed please find the *Monthly Operating Report* for July 2016. The *Nutrients Analysis Report for Compliance with General Permit for Nitrogen Discharges* and the *Discharge Monitoring Report* were 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 July 2016.

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

Sincerely,
Veolia Water North America – Northeast, LLC

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

Naugatuck WPCF | **Facility ID: 088-001** | Date received: (stamped)

Sample month/year July, 2016 | **Permit #: CT0100641**

	Daily Flow			Primary Sludge			Aeration Tank #1				Return Sludge		Aeration Tank #2				Return Sludge		Waste Sludge	Dry Solids to Incineration	Waste Accepted		CBOD (5-Day)		
	Max.	Min.	Total	Vol.	% solids	wt.	MLSS	SVI	High D.O.	Low D.O.			MLSS	SVI	High D.O.	Low D.O.	% Flow	%Solids			Septic	Indust	Inf.	Prim eff.	Final eff.
Units	mgd			MG		lbs.			mg/l		% Flow	% Solids			mg/l				lbs	lbs	gal	gal	mg/l		
Freq	Daily			Work Day			Work Day		4/ work day				Work Day		4/Work Day		Work Day		Wk Day	Wk Day	Work Day		3/week		
1	6.6	1.9	3.5	0.507			5,020	94	2.3	1.5	294	0.85	5,596	80	2.2	1.3	294	0.82	6,017	164,760	36,250				
2	4.6	2.0	3.4	0.529					2.3	1.4	278				2.2	1.5	278		6,017	136,932	7,500				
3	4.2	1.8	3.1	0.536					2.3	1.4	317				2.2	1.4	317		6,017	154,116	2,000				
4	5.0	1.6	3.1	0.529					4.6	1.4	298				4.2	1.3	298		6,017	95,038	0		190	230	<4
5	4.4	1.1	3.3	0.511			5,732	77	2.5	1.0	304	0.00	4,984	92	2.2	1.5	304	0.86	3,098	112,331	46,000		150		<4
6	4.5	2.1	3.5	0.495			4,572	81	2.3	1.5	279	0.69	5,052	81	2.2	1.3	279	0.68	6,581	157,224	57,050		190		<4
7	5.4	2.0	3.7	0.505			4,160	87	2.3	1.5	275	0.73	4,324	79	2.2	1.4	275	0.67	5,044	156,528	26,250				
8	4.8	2.3	3.6	0.526			5,224	69	2.4	1.5	287	0.74	4,912	81	2.2	1.5	287	0.82	6,557	141,660	38,500				
9	5.2	1.7	3.5	0.505					5.0	1.3	264				5.0	1.3	264		6,557	157,224	11,000				
10	4.5	1.9	3.4	0.501					2.4	1.4	282				2.3	1.4	282		6,557	136,932	0		290	180	<4
11	4.5	1.6	3.5	0.508			4,672	75	2.4	1.4	254	0.77	4,988	72	2.3	1.5	254	0.68	5,224	128,040	39,300		400		<7
12	4.6	1.9	3.4	0.512			4,248	82	2.4	1.3	293	0.70	4,452	85	2.4	1.4	293	0.57	5,529	111,130	44,850		200		<4
13	4.5	1.7	3.4	0.511			3,468	101	2.4	1.4	291	0.61	4,300	84	2.3	1.5	291	0.76	4,936	154,116	43,750				
14	5.3	2.1	3.6	0.525			3,816	92	2.4	1.5	250	0.64	4,196	83	2.2	1.3	250	0.68	4,756	151,313	37,800				
15	4.3	1.8	3.3	0.560			3,388	80	2.4	1.5	303	0.59	4,036	77	2.2	1.3	303	0.59	4,429	163,116	41,750				
16	4.5	1.9	3.1	0.528					2.3	1.4	334				2.4	1.3	334		2,834	147,072	0				
17	5.3	1.8	3.1	0.547					2.3	1.3	331				2.2	1.4	331		2,834	64,937	1,000		250	150	<4
18	4.1	1.5	3.1	0.545			3,572	109	5.0	0.0	295	0.50	2,740	113	2.3	1.3	295	0.56	1,750	66,737	30,000		260		<4
19	4.2	1.7	3.2	0.570			3,512	97	1.9	1.6	305	0.69	4,212	83	2.2	1.1	305	0.78	2,869	173,004	40,750		260		<4
20	4.2	1.7	3.2	0.538			3,596	86	5.0	0.0	336	0.54	3,404	91	5.0	0.9	336	0.51	2,837	102,560	32,350				
21	4.3	1.6	3.3	0.490			4,492	67	2.8	1.3	260	0.74	4,520	69	2.6	1.3	260	0.79	4,823	146,483	31,900				
22	5.4	1.6	3.1	0.526			3,456	87	2.2	1.3	375	0.60	3,680	82	2.1	1.4	375	0.44	2,810	157,224	39,300				
23	4.5	1.8	3.3	0.554					2.3	1.3	282				2.1	1.5	282		1,873	166,584	2,750				
24	5.4	1.6	3.1	0.557					2.9	1.4	311				3.4	1.3	311		1,873	79,190	0		320	160	<4
25	4.8	0.6	3.3	0.556			2,992	67	2.5	0.8	313	0.52	2,880	76	2.2	1.4	313	0.52	624	75,565	51,500		410		<4
26	4.8	1.9	3.2	0.583			2,992	80	2.1	1.4	310	0.58	3,256	74	2.2	1.1	310	0.58	697	115,200	39,750		290		<4
27	3.8	1.5	2.9	0.580			3,644	66	2.1	1.4	348	0.42	3,112	64	2.1	1.3	348	0.38	480	78,174	30,450				
28	4.4	2.1	3.4	0.579			3,464	69	4.1	0.7	285	0.43	3,128	64	3.8	1.2	285	0.34	208	109,004	35,050				
29	4.5	1.8	3.5	0.569			3,428	64	2.3	0.7	299	0.47	3,664	55	2.1	1.1	299	0.46	1,382	126,898	53,250				
30	5.0	1.8	3.5	0.676					2.0	0.4	273				2.2	0.3	273		475	94,628	1,000				
31	5.9	2.1	3.7	0.590					1.2	0.7	271				2.1	0.8	271		475	112,872	0		550	270	<4
Total	147.5	54.5	103.14																112,183	3,936,590	821,050				
Ave.	4.8	1.8	3.33	0.540			3,972	81	2.7	1.2	297	0.61	4,072	79	2.6	1.3	0.59	0.62	3,619	126,987	26,485		289	198	4

	Suspended Solids			Settleable Solids	Turbidity	Chlorine Dose		Chlorine Residual		Chlorine Residual Average	Fecal Coliform	E. Coli	Ammonia			Nitrite			Nitrate			TKN		
	Inf.	Prim Eff.	Final Eff.	Eff.	Eff.			high	low				Inf.	Prim Eff.	Final Eff.	Inf.	Prim Eff.	Final Eff.	Inf.	Prim. Eff.	Final Eff.	Inf.	Prim Eff.	Final Eff.
Units	mg/l			ml/l	NTU	lbs	mg/l	mg/l		mg/l	#/100ml	#/100ml	mg/l			mg/l			mg/l			mg/l		
Freq.	3/week			Wk Day	Wk Day	4/Work Day		4/work day		4/wk day	3/week	See table A of permit	3/week	Mthly	3/wk	Monthly			Monthly			Monthly		
1				0.0	2.6	86.73	3.01	0.050	0.000	0.015														
2						83.63	2.99	0.040	0.010	0.025														
3						83.10	3.25	0.030	0.000	0.025														
4	300	120	5			82.47	3.17	0.040	0.000	0.025			29.60	34.4	0.11	0.010	<0.010	<0.010	<0.02	<0.02	2.160	45.80	42.60	1.370
5	190		<5	0.0	1.5	76.88	2.77	0.040	0.010	0.022	30	52	24.00		0.14	0.020		<0.010	<0.02		3.300	43.50		1.240
6	280		<5	0.0	1.2	91.04	3.16	0.040	0.000	0.012	10	<10	25.50		0.12	0.016		<0.010	<0.02		4.040	42.70		1.260
7				0.0	1.3	125.61	4.04	0.040	0.000	0.018	30	<10												
8				0.0	1.4	121.37	4.03	0.040	0.000	0.020														
9						98.62	3.42	0.040	0.000	0.025														
10	540	97	5			110.71	3.95	0.040	0.000	0.007			30.00		0.08	0.017		<0.010	<0.02		5.480	50.30		1.540
11	290		<5	0.0	1.3	90.38	3.11	0.050	0.000	0.020	30	20	24.40		0.05	0.019		<0.010	<0.02		4.760	46.90		1.430
12	200		5	0.0	1.3	81.61	2.86	0.040	0.010	0.025	10	10	24.60		0.14	0.018		<0.010	<0.02		4.980	50.00		1.510
13				0.0	1.9	86.94	3.03	0.050	0.000	0.018	10	10												
14				0.0	0.9	89.47	2.96	0.040	0.000	0.025														
15				0.0	0.9	80.32	2.89	0.040	0.000	0.027														
16						114.91	4.39	0.040	0.000	0.008														
17	290	55	<5			85.11	3.29	0.040	0.000	0.022			25.80		0.13	0.016		<0.010	<0.02		4.240	51.60		1.310
18	310		<5	0.0	1.5	83.42	3.22	0.050	0.000	0.028	10	10	25.00		0.13	0.031		<0.010	<0.02		3.720	60.80		1.140
19	270		7	0.0	0.8	86.11	3.25	0.040	0.000	0.020	<10	<10	27.00		<0.05	0.016		<0.010	<0.02		4.920	46.50		1.340
20				0.0	1.4	77.15	2.87	0.020	0.000	0.008	10	20												
21				0.0	1.1	81.06	2.98	0.020	0.000	0.010														
22				0.0	1.0	86.39	3.33	0.050	0.000	0.028														
23						91.83	3.36	0.050	0.010	0.030														
24	150	81	<5			77.50	2.99	0.040	0.000	0.015			27.00		0.45	<0.010		<0.010	<0.02		5.280	49.20		1.750
25	430		<5	0.0	1.7	81.19	2.92	0.050	0.000	0.028	150	30	32.20		0.25	0.107		<0.010	0.44		4.440	53.80		1.600
26	270		<5	0.0	1.8	99.83	3.72	0.050	0.000	0.023	40	85	26.00		0.08	0.014		<0.010	<0.02		4.560	46.70		1.940
27				0.0	1.8	96.97	4.02	0.040	0.000	0.013	40	10												
28				0.0	1.9	130.90	4.60	0.040	0.020	0.033														
29				0.0	3.0	106.43	3.70	0.030	0.000	0.023														
30						86.07	2.99	0.050	0.000	0.025														
31	390	130	<5			74.70	2.45	0.040	0.020	0.033			24.80		0.92	0.034		0.075	<0.02		6.430	55.60		4.270
Total																								
Ave.	301	97	5	0.0	1.5	91.89	3.31	0.041	0.003	0.021	21	17	26.61	34.4	0.20	0.025	0.010	0.015	0.05	0.02	4.485	49.49	42.60	1.669

	Total N			Total N	Low D.O.	pH		Total P			Total P	Ortho P			Temp.		Arsenic		Copper	Nickel		Selenium	
	Inf.	Prim. Eff.	Final Eff.	Eff.	Eff.	Inf.	Eff.	Inf.	Prim. Eff.	Final Eff.	Eff.	Inf.	Prim. Eff.	Final Eff.	Inf.	Eff.	Inf.	Eff.	Eff.	Inf.	Eff.	Inf.	Eff.
nits	mg/l			lb/d	mg/l	S.U.		mg/l			lb/d	mg/l			F		mg/l		mg/l	kg/day		kg/day	
req.	Monthly			Mthly	4/wk day	Work Day		Nov-March (Monthly) (April-October) 2/week			Apr - Oct	Nov-March (Monthly) (April - October) 2/week			Work day		Weekly		Mthly	Weekly		Weekly	
					6.7	7.2	6.8								71	88							
2																							
3																							
4	45.8	42.6	3.5	90				6.92		19.70	513	2.78	9.000	19.70			<0.0040	0.005	0.014	0.08	0.12	0.06	0.02
5	43.5		4.6	127	6.8	7.3	6.9	6.50		18.80	522	2.38		18.70	71	86							
6	42.7		5.3	150	6.6	7.2	6.9								71	87							
7					6.6	7.3	7.1								71	89							
8					6.4	7.4	7.1								72	90							
9																							
10	50.3		7.0	198				13.00		21.30	597	5.56	0.600	21.30			<0.0040	0.006		0.16	0.17	0.25	0.05
11	46.9		6.2	181	6.5	7.3	6.9	8.77		22.00	639	2.96	9.800	22.00	71	87							
12	50.0		6.5	184	6.5	7.2	7.0								71	87							
13					6.7	7.4	7.0								72	87							
14					6.6	7.2	7.1								72	89							
15					6.5	7.3	7.1								73	91							
16																							
17	51.6		5.6	145				8.54		20.90	540	2.76	6.500	19.60			<0.0040	0.007		0.08	0.39	0.06	0.06
18	60.9		4.9	127	6.6	7.3	7.1	10.00		17.20	446	3.54	5.700	18.00	73	87							
19	46.5		6.3	168	6.9	7.6	7.2								71	84							
20					6.8	7.5	7.2								75	85							
21					6.8	7.3	7.0								71	85							
22					6.7	7.3	7.0								73	87							
23																							
24	49.2		7.0	181				10.50		19.30	501	3.54	7.100	19.10			<0.0040	0.006		0.15	0.26	0.58	0.12
25	54.3		6.0	165	7.2	7.3	6.4	26.30		19.90	553	16.10	5.200	19.60	72	91							
26	46.7		6.5	173	6.3	7.3	7.1								73	89							
27					6.3	7.3	7.1								74	90							
28					6.3	7.3	7.1								75	90							
29					6.4	7.4	7.1								74	90							
30																							
31	55.7		10.8	333				10.70		19.00	580	2.80	3.800	19.00			<0.0040	0.007		0.46	0.45	0.69	0.15
Total																							
Ave.	49.6	42.6	6.2	171	6.6	7.3	7.0	11.25		19.79	543	4.71	7.838	19.67	72.3	88.0	0.0040	0.0062	0.014	0.19	0.28	0.33	0.08

	Zinc		Alkalinity	
			Pri. Eff.	
	Inf.	Eff.		Eff.
Units	kg/day		mg/l	
Freq.	Weekly		Monthly	
1			170	60
2				
3				
4	2.98	0.623		
5			120	50
6			240	60
7			180	80
8			260	90
9				
10	3.99	0.559		
11			210	60
12			250	70
13			140	80
14			250	100
15			210	90
16				
17	2.75	0.539		
18			220	80
19			170	80
20			170	70
21			190	70
22			240	80
23				
24	3.59	0.472		
25			170	100
26			200	90
27			200	120
28			260	110
29			200	110
30				
31	6.50	0.880		
Total				
Ave.	3.96	0.615	203	83

Sludge Dispoal Location:

Please return forms to:

DEEP - Water Bureau

ATTN: Municipal Wastewater Monitoring Coordinator

Municipal Facilities

79 Elm Street

Statement of Acknowledgement

I certify under pentalty 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: 8-12-16

July 2016 Sludge Data

Source	Gallons	Wet Tons
Americas Styrenics	6,300	
Beacon Falls	117,000	
Bedford Hills	26,000	
Bristol		515.88
Casella - Glen Cove		260.79
Casella - Holyoke		570.25
Casella - Huntington		375.48
Casella - Walden		16.66
Casella - Yorktown		59.91
Cranston		43.33
Danbury		393.59
Heritage Village Water	26,000	
Litchfield	65,000	
Lynwood Place	19,500	
Mahopac Sludge & Septic	444,000	
McDermid Waterbury	67,630	
New Hartford	32,500	
New Rochelle		318.03
North Canaan	39,000	
North Haven	97,500	
Ossining	598,000	
Pawling	84,500	
Peekskill	1,189,500	
Plainville	39,000	
Plymouth	84,500	
Port Chester	1,040,000	
Poughkeepsie	442,000	
Redding	6,500	
Rhinebeck WPCF		18.69
Ridgefield	78,000	
Seymour Cake		116.16
Southbury	149,500	
Southbury Car Wash	6,500	
Southington	422,500	
Stratford	812,500	
Synagro Ansonia	32,500	
Synagro Bridgeport East	102,400	
Synagro Bridgeport West	175,500	
Synagro East Windsor	6,500	
Synagro New Canaan	52,000	
Synagro Newtown	13,000	
Synagro Norwalk	143,000	69.27

Synagro Stamford		22.74
Thomaston Treatment	52,000	
Torrington	390,000	
Westport	123,686	
Windham	240,500	
Total	**7,224,516**	**2780.78**

Nutrient Analysis Report

For compliance with General Permit for Nitrogen Discharges

Facility Name: NAUGATUCK TREATMENT Co.
Permit Number: CT0100641

Month: Jul-16
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.	7/4/2016	3.12	1.37	2.17	3.5	91
NAUGATUCK TRE.	7/5/2016	3.33	1.24	3.31	4.6	128
NAUGATUCK TRE.	7/6/2016	3.45	1.26	4.05	5.3	152
NAUGATUCK TRE.	7/10/2016	3.36	1.54	5.49	7	196
NAUGATUCK TRE.	7/11/2016	3.48	1.43	4.77	6.2	180
NAUGATUCK TRE.	7/12/2016	3.42	1.51	4.99	6.5	185
NAUGATUCK TRE.	7/17/2016	3.1	1.31	4.25	5.6	145
NAUGATUCK TRE.	7/18/2016	3.11	1.14	3.73	4.9	127
NAUGATUCK TRE.	7/19/2016	3.18	1.34	4.93	6.3	167
NAUGATUCK TRE.	7/24/2016	3.11	1.75	5.29	7	182
NAUGATUCK TRE.	7/25/2016	3.33	1.6	4.45	6.1	169
NAUGATUCK TRE.	7/26/2016	3.22	1.94	4.57	6.5	175
NAUGATUCK TRE.	7/31/2016	3.66	4.27	6.51	10.8	330
					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
					0	0
					Total Pounds	2227
					Average Pounds	171.3076923

Date of Last Calibration of Flow Meter: 7/9/2016

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 8-12-16

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 07/01/16 to 07/31/16	**DMR Due Date:**	08/15/16	**Status:**	NotDMR Validated

Considerations for Form Completion

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: --

Parameter 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	W - See Comments	0	--	Sample										=	100	15 - deg F		01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.											Req Mon INST MAX	15 - deg F		01/60 - Once Every 2 Months	GR - GRAB
					Value NODI															
00050	Flow rate	1 - Effluent Gross	0	--	Sample	=	3.3	=	6.6	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Value NODI															
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	8.3					19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.						>=	5 INST MIN					19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															
00310	BOD, 5-day, 20 deg. C	T - See Comments	0	--	Sample															
					Permit Req.											Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Value NODI											8 - Other (See Comments)				
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.4			=	7.2	12 - SU		01/01 - Daily	GR - GRAB
					Permit Req.						>=	6 INST MIN			<=	9 INST MAX	12 - SU		01/01 - Daily	GR - GRAB
					Value NODI															
00400	pH	S - See Comments	0	--	Sample						=	5.9			=	5.9	12 - SU		01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.							Req Mon INST MIN				Req Mon INST MAX	12 - SU		01/60 - Once Every 2 Months	GR - GRAB
					Value NODI															
00400	pH	W - See Comments	0	--	Sample						=	3.8			=	3.8	12 - SU		01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.							Req Mon INST MIN				Req Mon INST MAX	12 - SU		01/60 - Once Every 2 Months	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								=	5.2	=	7	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Permit Req.								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	301			19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Permit Req.									Req Mon MO AVG			19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI															
					Sample															CP -
					Permit															

Sent electronically 8-12-16
John Batorski

00530 Solids, total suspended	T - See Comments	0	--	Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample	=	0.2		19 - mg/L	03/07 - Three Per Week	CP - COMPOS
00610 Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Permit Req.	<=	4 MO AVG		19 - mg/L	03/07 - Three Per Week	CP - COMPOS
				Value NODI						
				Sample						
00610 Nitrogen, ammonia total [as N]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample						
00615 Nitrogen, nitrite total [as N]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample						
00620 Nitrogen, nitrate total [as N]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample						
00665 Phosphorus, total [as P]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample						
00720 Cyanide, total [as CN]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample						
00722 Cyanide, free [amen. to chlorination]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample	=	0.0002	= 0.007	19 - mg/L	01/07 - Weekly	CP - COMPOS
01002 Arsenic, total [as As]	1 - Effluent Gross	0	--	Permit Req.		Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/07 - Weekly	CP - COMPOS
				Value NODI						
				Sample			= 0.004	19 - mg/L	01/07 - Weekly	CP - COMPOS
01002 Arsenic, total [as As]	G - Raw Sewage Influent	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/07 - Weekly	CP - COMPOS
				Value NODI						
				Sample			= 3.7	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01002 Arsenic, total [as As]	S - See Comments	0	--	Permit Req.			Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI						
				Sample						
01002 Arsenic, total [as As]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample			= 0.05	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01002 Arsenic, total [as As]	W - See Comments	0	--	Permit Req.			Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI						
				Sample			= 0.4	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01012 Beryllium, total [as Be]	S - See Comments	0	--	Permit Req.			Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI						
				Sample						
01012 Beryllium, total [as Be]	T - See Comments	0	--	Permit Req.			Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI			8 - Other (See Comments)			
				Sample			= 0	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit					01/60 - Once Every 2	

01012 Beryllium, total [as Be]	W - See Comments	0	--	Req. Value NODI									Req Mon INST MAX		19 - mg/L	Months	GR - GRAB
01027 Cadmium, total [as Cd]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample								=	0.01		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01027 Cadmium, total [as Cd]	W - See Comments	0	--	Permit Req. Value NODI									Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01032 Chromium, hexavalent [as Cr]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
01034 Chromium, total [as Cr]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample								=	0.02		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01034 Chromium, total [as Cr]	W - See Comments	0	--	Permit Req. Value NODI									Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01042 Copper, total [as Cu]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI					=	0.014		=	0.014		19 - mg/L	01/30 - Monthly	CP - COMPOS
													Req Mon DAILY MX		19 - mg/L	01/30 - Monthly	CP - COMPOS
01042 Copper, total [as Cu]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample								=	1.58		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01042 Copper, total [as Cu]	W - See Comments	0	--	Permit Req. Value NODI									Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01045 Iron, total [as Fe]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample								=	5.5		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01045 Iron, total [as Fe]	W - See Comments	0	--	Permit Req. Value NODI									Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01051 Lead, total [as Pb]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample								=	0.03		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01051 Lead, total [as Pb]	W - See Comments	0	--	Permit Req. Value NODI									Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01059 Thallium, total [as Tl]	T - See Comments	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
													8 - Other (See Comments)				
				Sample	=	0.28	=	0.45								01/07 - Weekly	CP - COMPOS
01067 Nickel, total [as Ni]	1 - Effluent Gross	0	--	Permit Req. Value NODI	<=	2.14 MO AVG	<=	3.94 DAILY MX								01/07 - Weekly	CP - COMPOS
				Sample			=	0.46								01/07 - Weekly	CP - COMPOS

01067 Nickel, total [as Ni]	G - Raw Sewage Influent	0	--	Permit Req.				Req Mon DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
				Value NODI												
				Sample												
01067 Nickel, total [as Ni]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				
				Sample							=	0.04	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
01067 Nickel, total [as Ni]	W - See Comments	0	--	Permit Req.								Req Mon INST MAX	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
				Value NODI												
				Sample												
01077 Silver, total [as Ag]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				
				Sample	=	0.015	=	0.68	01 - kg/d						01/07 - Weekly	CP - COMPOS
01092 Zinc, total [as Zn]	1 - Effluent Gross	0	--	Permit Req.	<=	3.79 MO AVG	<=	5.68 DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
				Value NODI												
				Sample			=	0.5	01 - kg/d						01/07 - Weekly	CP - COMPOS
01092 Zinc, total [as Zn]	G - Raw Sewage Influent	0	--	Permit Req.				Req Mon DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
				Value NODI												
				Sample												
01092 Zinc, total [as Zn]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				
				Sample							=	1.92	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
01092 Zinc, total [as Zn]	W - See Comments	0	--	Permit Req.								Req Mon INST MAX	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
				Value NODI												
				Sample												
01097 Antimony, total [as Sb]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				
				Sample												
01105 Aluminum, total [as Al]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				
				Sample							=	11.1	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
01105 Aluminum, total [as Al]	W - See Comments	0	--	Permit Req.								Req Mon INST MAX	19 - mg/L		01/60 - Once Every 2 Months	GR - GRAB
				Value NODI												
				Sample	=	0.08	=	0.15	01 - kg/d						01/07 - Weekly	CP - COMPOS
01147 Selenium, total [as Se]	1 - Effluent Gross	0	--	Permit Req.	<=	35 MO AVG	<=	75 DAILY MX	01 - kg/d						01/07 - Weekly	CP - COMPOS
				Value NODI												
				Sample	=	0.33			01 - kg/d						01/07 - Weekly	CP - COMPOS
01147 Selenium, total [as Se]	G - Raw Sewage Influent	0	--	Permit Req.		Req Mon MO AVG			01 - kg/d						01/07 - Weekly	CP - COMPOS
				Value NODI												
				Sample							=	0	69 - mg/kg		01/60 - Once Every 2 Months	GR - GRAB
01147 Selenium, total [as Se]	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg		01/60 - Once Every 2 Months	GR - GRAB
				Value NODI												
				Sample												
01147 Selenium, total [as Se]	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)				

				Sample							=	0	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01147 Selenium, total [as Se]	W - See Comments	0	--	Permit Req.								Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample											
39510 Polychlorinated biphenyls [PCBs]	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI								8 - Below Detection Limit/No Detection			
				Sample											
40000 Phenols	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L	04/00 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)			
				Sample			=	0.02	=	0.03			19 - mg/L	04/01 - Four Per Day	GR - GRAB
50060 Chlorine, total residual	1 - Effluent Gross	0	--	Permit Req.				Req Mon MO AVG	<=	.06 DAILY MX			19 - mg/L	04/01 - Four Per Day	GR - GRAB
				Value NODI											
				Sample											
50060 Chlorine, total residual	T - See Comments	0	--	Permit Req.								Req Mon DAILY MX	19 - mg/L	01/00 - Quarterly	CP - COMPOS
				Value NODI								8 - Other (See Comments)			
				Sample											
51040 E. coli	1 - Effluent Gross	0	--	Permit Req.			<=	126 AVERAGE	<=	410 INST MAX			13 - #/100mL	03/07 - Three Per Week	GR - GRAB
				Value NODI				9 - Conditional Monitoring - Not Required This Period		9 - Conditional Monitoring - Not Required This Period					
				Sample	=	23.1							23 - %	01/60 - Once Every 2 Months	GR - GRAB
70318 Solids, total, percent	S - See Comments	0	--	Permit Req.		Req Mon INST MIN							23 - %	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample	=	24.7							23 - %	01/60 - Once Every 2 Months	GR - GRAB
70319 Solids, fixed, % of total solids	S - See Comments	0	--	Permit Req.		Req Mon INST MIN							23 - %	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample	=	75.3							23 - %	01/60 - Once Every 2 Months	GR - GRAB
70322 Solids, volatile % of total solids	S - See Comments	0	--	Permit Req.		Req Mon INST MIN							23 - %	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample								Req Mon DAILY MX	19 - mg/L	01/00 - Quarterly	CP - COMPOS
71900 Mercury, total [as Hg]	T - See Comments	0	--	Permit Req.								8 - Other (See Comments)			
				Value NODI							=	0.0031	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Sample								Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
71900 Mercury, total [as Hg]	W - See Comments	0	--	Permit Req.											
				Value NODI											
				Sample			=	21	=	62.1			13 - #/100mL	03/07 - Three Per Week	GR - GRAB
74055 Coliform, fecal general	1 - Effluent Gross	0	--	Permit Req.			<=	200 30DA GEO	<=	400 7 DA GEO			13 - #/100mL	03/07 - Three Per Week	GR - GRAB
				Value NODI											
				Sample					=	648			69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78407 Zinc, dry weight	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample					=	52.6			69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78456 Lead, dry weight	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI											
				Sample					=	24.7			69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78460 Nickel, dry weight	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB

					Value											
					NODI											
					Sample							=	0.01	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78471	Mercury, dry weight	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value											
					NODI											
					Sample							=	32.2	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78473	Chromium, dry weight	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value											
					NODI											
					Sample							=	646	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78475	Copper, sludge, tot, dry weight [as Cu]	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value											
					NODI											
					Sample							=	1.75	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
78476	Cadmium, sludge, tot dry weight [as Cd]	S - See Comments	0	--	Permit Req.								Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value											
					NODI											
					Sample				=	4.24	=	7.1	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
80126	BOD, carbonaceous [5 day, 5 C]	1 - Effluent Gross	1	--	Permit Req.				<=	15 MO AVG	<=	25 DAILY MX	19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value											
					NODI											
					Sample				=	280			19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
80126	BOD, carbonaceous [5 day, 5 C]	G - Raw Sewage Influent	0	--	Permit Req.					Req Mon MO AVG			19 - mg/L	03/07 - Three Per Week	CP - COMPOS	
					Value											
					NODI											
					Sample											
80126	BOD, carbonaceous [5 day, 5 C]	T - See Comments	0	--	Permit Req.							Req Mon DAILY MX	19 - mg/L	01/00 - Quarterly	CP - COMPOS	
					Value											
					NODI							8 - Other (See Comments)				
					Sample	=	98.3						23 - %	03/07 - Three Per Week	CA - CALCTD	
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Permit Req.	>=	85 MN % RMV						23 - %	03/07 - Three Per Week	CA - CALCTD	
					Value											
					NODI											
					Sample	=	99						23 - %	03/07 - Three Per Week	CA - CALCTD	
81383	Carbonaceous oxygen demand, % removal	K - Percent Removal	0	--	Permit Req.	>=	85 MN % RMV						23 - %	03/07 - Three Per Week	CA - CALCTD	
					Value											
					NODI											
					Sample											
TDA3D	Noael Static 48Hr Acute D. Pulex	T - See Comments	0	--	Permit Req.	>=	90 MINIMUM						2T - % survival	01/90 - Quarterly	CP - COMPOS	
					Value		8 - Other (See Comments)									
					NODI											
					Sample											
TDA6C	Noael Static 48Hr Acute Pimephales	T - See Comments	0	--	Permit Req.	>=	90 MINIMUM						2T - % survival	01/90 - Quarterly	CP - COMPOS	
					Value		8 - Other (See Comments)									
					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

ATMR results were not available at the time of this report. Report will be resubmitted once the data becomes available.

Attachments

No attachments.

Report Last Saved By

NAUGATUCK WPCF

User: John.Batorski@Veoliawaterna.com

Name: John Batorski

Date/Time: 2016-08-12 09:26 (Time Zone: -04:00)

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Clean Water Fund Memorandum (2016 – 005)

Nutrient Grant Eligibility Related to Phosphorous Removal on Clean Water Fund Projects

I. PURPOSE

To provide a clear and consistent methodology for determining Connecticut Clean Water Fund (CWF) eligibility and funding grant percentage for phosphorous removal treatment plant projects.

II. GOVERNING STATUTES

The Connecticut General Statutes (CGS) Section 22a-478(c)(3) states the following funding allotment for phosphorous removal projects:

> "A construction contract eligible for financing awarded by a municipality on or after July 1, 2012, as a project undertaken for nutrient removal shall receive a project grant of thirty per cent of the cost of the project associated with nutrient removal, a twenty per cent grant for the balance of the cost of the project not related to nutrient removal, and a loan for the remainder of the costs of the project, not exceeding one hundred per cent of the eligible water quality project costs."

The grant percentage applied to phosphorus removal projects may be subject to amendment by the legislature. The final grant percentage applied to the eligible project components shall be consistent with any applicable statutes.

III. ELIGIBILITY

The grant funding is the statutory percentage as applied to the eligible portion indicated below.

1. Preliminary Treatment..... zero%
2. Primary Treatment
   a. Phosphorus removal chemical feed systems..... 100%
3. Secondary Treatment
   a. Biological phosphorus removal tankage..... 100%
   b. Phosphorus removal chemical feed systems..... 100%
4. Secondary Clarifiers
   a. Phosphorus removal chemical feed systems..... 100%
   b. Density current baffles..... 100%
5. Polishing Filters (i.e. sand filters, multi-media filters, disc filters, membrane filters)..... 100%

6. Ballasted Sedimentation Systems..... 100%

7. Pumping of plant flow – only if necessary for hydraulic profile due to added phosphorus removal facilities..... 100%

8. Laboratory phosphorous testing equipment - not to include auto analyzers..... 100%

9. Solids handling/processing - not to include digester facilities
   - not eligible if facilities are currently operated part-time

   a. Facilities with average monthly permit limits greater than 0.31 mg/l..... zero%

   b. Facilities with average monthly permit limits less than or equal to 0.31 mg/l 25%

10. Sitework

   a. Demolition, dewatering & piles - if required to construct phosphorus removal facilities..... 100%

   b. Other – piping, bedding, restoration, etc. to be determined with the following formula:

$$\frac{\textit{Construction costs eligible for Phosphorus Removal Grant} \times (\textit{CWF eligible site work costs} - \textit{demolition})}{\textit{CWF eligible construction costs}}$$

11. Electrical – to be determined with the following formula:

$$\frac{\textit{Construction costs eligible for Phosphorus Removal Grant} \times (\textit{CWF eligible electrical costs})}{\textit{CWF eligible construction costs}}$$

12. Plant water system..... 100%

13. Engineering services – to be determined with the following formula:

$$\frac{\textit{Construction costs eligible for PR Grant} \times (\textit{CWF eligible design and construction engineering costs})}{\textit{CWF eligible construction costs}}$$

14. Construction Contingency – to be determined with the following formula:

$$\frac{\textit{Construction costs eligible for Phosphorus Removal Grant} \times (\textit{Reasonable CWF eligible construction costs})}{\textit{CWF eligible construction costs}}$$

IV. DEFINITIONS

CWF: Connecticut Clean Water Fund

CGS: Connecticut General Statutes

Date: July 6, 2016

Denise Ruzicka
Director of Planning & Standards
Bureau of Water Protection and Land Reuse

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Clean Water Fund Memorandum (2016 – 006)

Fiscal Sustainability Plan Requirements on Connecticut Clean Water Fund Projects

I. PURPOSE

a. A Fiscal Sustainability Plan (FSP) is a document which identifies the full capital, operational, and maintenance costs of proposed wastewater infrastructure in a community or utility district. Preparation of a FSP is required for a project funded through the Connecticut Clean Water Fund (CWF).

b. The goal of preparing a FSP is to ensure that recipients of CWF financial assistance are managing their physical assets in ways that promote long service life, avoid expensive catastrophic failures, and maximize the long-term financial self-sufficiency of the wastewater system. The FSP should be viewed as a "living document" that is regularly reviewed, revised, and expanded to include all assets under the control of the wastewater utility.

II. GOVERNING FEDERAL REQUIREMENTS TO PREPARE FISCAL SUSTAINABILITY PLANS

The *Water Resources Reform and Development Act (WRRDA) of 2014* made changes to the Section 603(d)(1)(E) of the *Federal Water Pollution Control Act,* as amended. This requirement is applicable to all CWF applications for construction because federal funds make up a portion of the CWF. The effective date of this requirement is October 1, 2014. All CWF loan recipients proposing to repair, replace, or expand their treatment works are required to develop and implement a FSP.

III. FISCAL SUSTAINABILITY PLAN REQUIREMENTS

A FSP shall contain the following:

a. Inventory of critical assets. The FSP shall include an inventory of all critical assets located in the FSP planning area. In general, the FSP planning area covers the asset that is being upgraded. For example, for a water pollution control facility (WPCF) upgrade, the FSP covers the entire WPCF. For a pump station upgrade in the collection system, the FSP covers only the pump station subject to the upgrade. Exceptions to this requirement include 1) WPCF upgrades only for advanced wastewater treatment, such as a phosphorus removal system, and 2) new sanitary sewers into a municipality.

b. Evaluation of the condition and performance of the assets. The plan shall include a system to evaluate the condition and performance of the asset. This system should consider the following asset characteristics: installation date, age, condition, service history, remaining useful life, importance to the protection of public health and/or water quality, importance to the operation of the system, and asset redundancy or lack thereof.

c. Certification of water and energy conservation. The FSP shall contain a certification that the funding recipient has evaluated and will be implementing water and energy conservation

efforts as part of the FSP. An example of water conservation is the use of WPCF plant effluent for wastewater treatment plant systems that normally use potable water. Several examples of energy conservation include energy efficient blowers and diffuser technologies; utilization of renewable energy; improvements to pumping efficiency by properly sized pumps and the installation of variable frequency drives; improvements to heating, ventilation and air conditioning systems; and the use of supervisory control and data acquisition software to increase the efficiency of process monitoring and operational control.

d. Capital Improvement Funding Plan (CIFP). The FSP shall contain a CIFP. The CIFP shall include a schedule for the maintenance, rehabilitation and/or replacement of assets and a plan for funding those activities.

IV. CWF REQUIREMENTS FOR FISCAL SUSTAINABILITY CERTIFICATION

Effective October 1, 2014, any Connecticut CWF municipal loan recipient proposing to repair, replace, or expand their treatment works is required to develop, implement, and self-certify a Fiscal Sustainability Plan (FSP) as part of its CWF Construction Application.

a. FSP Certification Form submission deadline. A Connecticut CWF Fiscal Sustainability Plan Certification Form shall be submitted to the Department of Energy and Environmental (DEEP) prior to 90% of the project funding for construction is disbursed. See attached certification form.

b. FSP document retention. A copy of the FSP shall be maintained at all times at the location specified on the FSP Certification Form and be available for review at the request of DEEP or the public.

c. CWF eligibility. FSP are eligible for CWF participation. The engineering agreement for construction phase services may include the preparation of a FSP for the project and may receive a 20% grant, and a 2% interest rate loan on the remainder of the costs to prepare such plan.

d. CWF agreement. The requirement to prepare a FSP will be incorporated into the CWF agreement between the municipal loan recipient and the state.

V. ALTERNATE ASSET MANAGEMENT PLAN APPROACH:

As an alternate, any CWF municipal loan recipient may elect to develop and implement a system wide or sector based (collection, pumping, treatment, etc.) Asset Management Plan. An Asset Management Plan would serve as a substitute for a project specific FSP. This approach is recommended when multiple projects are anticipated in a phased improvement schedule. A system wide Asset Management Plan is often used by a Water Pollution Control Authority (WPCA) or WPCF for justifying infrastructure repairs, adopting rate increases, and establishing infrastructure sinking funds.

a. Asset Management Plan requirements. If the alternate approach is selected, then the Asset Management Plan must meet all the requirements of a FSP, also follow Environmental Protection Agency (EPA) guidelines for Asset Management Plans and be filed with DEEP's Municipal Water Pollution Control Section. Once filed with DEEP, the Asset Management

Plan will serve as meeting the FSP requirements for all subprojects specifically contained in the plan.

b. CWF eligibility. An asset management plan is eligible for a 55% planning grant, with the remainder utility self-funded.

c. Asset Management Plan submission deadline. The Asset Management Plan must be filed with DEEP prior to entering into any CWF construction agreement for a project identified in the plan.

VI. DEFINITIONS

CIFP: Capital Improvement Funding Plan

CWF: Connecticut Clean Water Fund

DEEP: Connecticut Department of Energy and Environmental Protection

EPA: Environmental Protection Agency

FSP: Fiscal Sustainability Plan

WPCA: Water Pollution Control Authority

WPCF: Water Pollution Control Facility

WRRDA: Water Resources Reform and Development Act

VII. ADDITIONAL INFORMATION

Additional guidance on FSP requirements, developing FSP plans, or system wide asset management plans may be found at the following web links:

https://www.epa.gov/sustainable-water-infrastructure/asset-management

https://www.epa.gov/dwcapacity/information-check-program-small-systems-cupss-asset-management-tool

http://simple.werf.org/Pages/Weblinks

July 7, 2016
Date

Denise Ruzicka, Director
Planning & Standards Division
Bureau of Water Protection & Land Reuse

Attachment: Connecticut Clean Water Fund Fiscal Sustainability Plan Certification Form

Connecticut Department of
Energy & Environmental Protection
Bureau of Water Protection & Land Reuse
Planning & Standards Division

Connecticut Clean Water Fund (CWF) Fiscal Sustainability Plan (FSP) Certification Form

Part I: Project Information

CWF Project #: _____

Brief CWF Project Description:

Part II: Certification

"I have personally examined and I am familiar with the contents of the FSP and all attachments thereto, and I certify that a copy of this certification has been submitted to the municipality and written approval has been received. I certify based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the information in the FSP is true, accurate and complete to the best of my knowledge and belief.

I certify that the municipality has developed and implemented an FSP which meets the requirements of Section 603(d)(1)(E)(i) of the Water Resources Reform and Development Act (WRRDA) of 2014. The FSP includes an inventory of critical assets, an evaluation of the condition and performance of inventoried assets, a plan for maintaining, repairing, and as necessary, replacing the treatment works, and a plan for funding such activities. I further certify that the municipality has evaluated and will be implementing water and energy conservation efforts as part of the FSP.

I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

Signature of Authorized Representative	Date
Printed Name of Authorized Representative	Title

The Connecticut Department of Energy & Environmental Protection (DEEP) and the Environmental Protection Agency (EPA) reserve the right to inspect the FSP, at any time, in order to determine compliance. The FSP is available for review at the following location:

Location of FSP Document Available for Inspection: _____

Name of FSP Contact: _____ Title: _____

FSP Contact Phone Number: _____

VEOLIA
WATER

Sent via certified mail #7014 1200 0002 2237 0216 on August 1, 2016

Connecticut DEEP
Donald Gonyea
Bureau of Materials Management and Compliance Assurance
79 Elm Street
Hartford, CT 06106

August 1, 2016

Re: Laboratory DMR-QA Evaluation Study 34

Dear Mr. Gonyea:

Enclosed please find the *NPDES Permittee Data Report Form* for the Naugatuck WWTP, NPDES Permit #CT0100641. All results were within acceptable limits.

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

Sincerely,
Veolia Water North America – Northeast, LLC

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

SIGMA-ALDRICH RTC

2931 Soldier Springs Rd., Laramie, WY 82070 USA
Phone: 800-576-5690 Website: pt.sigmainformatics.com

NPDES Laboratory Performance Evaluation Report
RTC Laboratory Proficiency Testing Program
DMRQA 36 - Concluding 7/01/2016

NPDES Permit #: CT0100641
Permit Name: VEOLIA WATER NORTH AMERICAN

500 CHERRY ST
NAUGATUCK, CT 06770-4503

If you have any questions about your report, please contact customer service at 800-576-5690 or email: rtcptgroup@sial.com. A copy of this report has been sent to both your State and Regional Coordinator. This report shall not be reproduced except in full, with written approval of the Laboratory. A Laboratory may not claim endorsement by ANAB, NELAC or any other federal agency. RTC is accredited to perform PT programs for the scope of accreditation to ISO/IEC 17043 under ANAB certificate AP-1469.

This report may contain data that are not covered by the ANAB accreditation.

Analyzing Laboratory: New England Bioassay
EPA Labcode: CT01041

Analyte	Analysis Method	Reported Value	Assigned Value	Acceptance Limits	Evaluation
Fathead Minnow Acute MHSF 25° - LC50 754	EPA 2000.0 - Fathead minnow, 48-hr Acute, nonrenewal, MHSF 25°C (2002) 10213602	17.7%	17	3.19 to 30.8	Acceptable
Fathead Minnow Chronic MHSF - Survival NOEC 756	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10214207	50%	25	12.5 to 50	Acceptable
Ceriodaphnia Acute MHSF 25° - LC50 764	EPA 2002.0 - Ceriodaphnia dubia, 48-hr Acute, renewal, MHSF 25°C (2002) 10214809	68.7%	59.6	0.579 to 119	Acceptable
Ceriodaphnia Chronic MHSF - Survival NOEC 766	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10215006	50%	50	25 to 100	Acceptable
Ceriodaphnia Chronic MHSF - Reproduction IC25 767	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10215006	51.3%	40	0 to 90.8	Acceptable
Ceriodaphnia Chronic MHSF - Reproduction NOEC 768	EPA 1002.0 - Ceriodaphnia dubia, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10215006	50%	25	12.5 to 50	Acceptable

SIGMA-ALDRICH RTC
2931 Soldier Springs Rd., Laramie, WY 82070 USA
Phone: 800-576-5690 Website: pt.sigmainformatics.com

Daphnia Pulex MHSF 25° - LC50 794	EPA 2021.0 - Daphnia pulex, 48hr Acute, nonrenewal, MHSF 20°C 10215608	37.8%	30.4	5.57 to 55.3	Acceptable
Fathead Minnow Chronic MHSF - Growth IC25 (ON) 808	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10214207	39.2%	44.4	9.82 to 79	Acceptable
Fathead Minnow Chronic MHSF - Growth NOEC (ON) 810	EPA 1000.0 - Fathead minnow, 7-day Chronic, daily renewal, MHSF 25°C (2002) 10214207	25%	25	12.5 to 50	Acceptable

Certifying Officer: Megan Ler

Date: 07-28-2016

United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460
Laboratory DMR-QA Evaluation Study: DMRQA 36
Laboratory Performance Evaluation
Office of Enforcement and Compliance Assurance
(These data are collected under the authority of the Federal Water Pollution Control Act.)

NPDES Permittee Data Report Form

Due August 26, 2016	**Attention:** Follow the instructions on the previous page to complete this form and submit data for evaluation.	State CT	NPDES Permit Number CT0100641	Permit Extension

Permitee name: **VEOLIA WATER NORTH AMERICAN**
Current Permittee mailing address: **500 CHERRY ST**

Phone Number: (203) 723-1433 FAX Number: 203-723-8539
E-mail:

For DMRQA 36 study, conducted in 2016, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples: March 18, 2016	Submitted Complete and Accurate Data by July 1, 2016:	Received a Graded Report by July 29:, 2016:
Yes ☑ No ☐	Yes ☑ No ☐	Yes ☑ No ☐

Certification by Permit Holder or Authorized Representative
(as per 40 C.F.R. Part 122.22 - see instructions.)

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. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S. EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official: **John ~~Baturski~~** Batorski Title: Plant Manager

Signature John Batorski Date: 8-1-16

Address, phone number and e-mail of Certifying Official are required if different from above.

Address: Phone No.:

E-mail:

United States

ENVIRONMENTAL PROTECTION AGENCY

Washington, D.C. 20460

Laboratory DMR-QA Evaluation Study: DMRQA 36

Laboratory Performance Evaluation

Office of Enforcement and Compliance Assurance

(These data are collected under the authority of the Federal Water Pollution Control Act.)

Permittee Name:	State:	NPDES Permit No.:	Permit Extension:
VEOLIA WATER NORTH AMERICAN	**CT**	**CT0100641**	

Identification of All CHEM, MICRO and TOX Laboratories who did analyses for Permit Number: **CT0100641**

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State certfied Laboratory**
			CHEM	MICRO	TOX		
New England Bioassay	77 Batson Drive Manchester, CT 06042 US	CT01041	☒	☐	☐	C	☐
			☐	☐	☐		☐
			☐	☐	☐		☐
			☐	☐	☐		☐

*Lab Type: C=Commercial F=Federal G=Local Government I=Industrial O=Other P=Pharmaceutical
**See Footnote 2 on DMR-QA 33 Fact Sheet

If you need addtional space, please make a copy of this page for additional laboratories.

Permittee name: **VEOLIA WATER NORTH AMERICAN** State: **CT** Permittee Number: **CT0100641** EPA Lab code: **CT01041**

Chemistry/Microbiology/Analyte Checklist

DMRQA 36 study

Analyte Test	Test Required	Laboratory graded Result		Analyte detremined by state-certified laboratory*
		Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology				
2525 Escherichia coli	☐	☐	☐	☐
2525 Escherichia coli, MPN	☐	☐	☐	☐
2530 Fecal coliform, MPN	☐	☐	☐	☐
2530 Fecal coliforms	☐	☐	☐	☐
2500 Total Coliform, MPN	☐	☐	☐	☐
2500 Total coliforms	☐	☐	☐	☐
Demands				
1530 5-day BOD	☐	☐	☐	☐
1555 Carbonaceous BOD (CBOD)	☐	☐	☐	☐
1565 Chemical oxygen demand (COD)	☐	☐	☐	☐
2040 Total organic carbon (TOC)	☐	☐	☐	☐
Minerals				
1505 Alkalinity as $CaCO_3$	☐	☐	☐	☐
1575 Chloride	☐	☐	☐	☐
1730 Fluoride	☐	☐	☐	☐
1755 Hardness, total as $CaCO_3$	☐	☐	☐	☐
1610 Specific conductance, Conductivity (25ºC)	☐	☐	☐	☐
2000 Sulfate	☐	☐	☐	☐
1955 Total Dissolved Solids at 180ºC (TDS)	☐	☐	☐	☐
Nutrients				
1515 Ammonia as N	☐	☐	☐	☐
1795 Kjeldahl nitrogen, total (TKN)	☐	☐	☐	☐
1810 Nitrate as N	☐	☐	☐	☐
1840 Nitrite as N	☐	☐	☐	☐
1870 Orthophosphate as P	☐	☐	☐	☐
1910 Phosphorus as P, total	☐	☐	☐	☐
Miscellaneous Analytes				
1940 Low Level TRC	☐	☐	☐	☐
1803 n-Hexane Extractable Material (O&G)	☐	☐	☐	☐
1900 pH	☐	☐	☐	☐
1965 Settleable solids	☐	☐	☐	☐
6142 Silica Gel Treated n-Hexane Extractable Material (Non-polar Material)	☐	☐	☐	☐
4020 Sulfuric acid mist, sulfur dioxide	☐	☐	☐	☐
1645 Total cyanide	☐	☐	☐	☐
1905 Total phenolics	☐	☐	☐	☐
1940 Total residual chlorine	☐	☐	☐	☐
1960 Total Suspended Solids, Non-Filterable Residue (TSS)	☐	☐	☐	☐
2055 Turbidity	☐	☐	☐	☐
Trace Metals - Waste Water				
1000 Aluminum, Al	☐	☐	☐	☐
1005 Antimony, Sb	☐	☐	☐	☐
1010 Arsenic, As	☐	☐	☐	☐
1015 Barium, Ba	☐	☐	☐	☐
1020 Beryllium, Be	☐	☐	☐	☐
1030 Cadmium, Cd	☐	☐	☐	☐
1045 Chromium VI, Cr(VI)	☐	☐	☐	☐
1040 Chromium, Cr (total)	☐	☐	☐	☐
1050 Cobalt, Co	☐	☐	☐	☐
1055 Copper, Cu	☐	☐	☐	☐
1070 Iron, Fe	☐	☐	☐	☐
1075 Lead, Pb	☐	☐	☐	☐
1095 Low Level Mercury	☐	☐	☐	☐
1090 Manganese, Mn	☐	☐	☐	☐

1095 Mercury, Hg	☐	☐	☐	☐
1100 Molybdenum, Mo	☐	☐	☐	☐
1105 Nickel, Ni	☐	☐	☐	☐
1140 Selenium, Se	☐	☐	☐	☐
1150 Silver, Ag	☐	☐	☐	☐
1165 Thallium, Tl	☐	☐	☐	☐
1185 Vanadium, V	☐	☐	☐	☐
1190 Zinc, Zn	☐	☐	☐	☐

Name _____ Signature _____ Date _____

Permittee name: **VEOLIA WATER NORTH AMERICAN** State: **CT** Permittee Number: **CT0100641** EPA Lab code: **CT01041**

WET Organisms/Test Conditions/End Points Checklist

DMRQA 36 study

Analyte Number	Analyte Test	Test Required	Laboratory graded Result		Analytre detremined by state-certified laboratory*
			Acceptable	Not Acceptable (Corrective Action Required)	
Test Code 13 / EPA Method 2000					
754	Fathead Minnow Acute MHSF 25° - LC50	☒	☒	☐	☐
Test Code 14 / EPA Method 2000					
755	Fathead Minnow Acute 20% DMW 25° - LC50	☐	☐	☐	☐
Test Code 15 / EPA Method 1000					
808	Fathead Minnow Chronic MHSF - Growth IC25 (ON)	☒	☒	☐	☐
809	Fathead Minnow Chronic MHSF - Growth IC25 (SN)	☐	☐	☐	☐
810	Fathead Minnow Chronic MHSF - Growth NOEC (ON)	☒	☒	☐	☐
811	Fathead Minnow Chronic MHSF - Growth NOEC (SN)	☐	☐	☐	☐
756	Fathead Minnow Chronic MHSF - Survival NOEC	☒	☒	☐	☐
Test Code 16 / EPA Method 1000					
812	Fathead Minnow Chronic 20 % DMV - Growth IC (ON)	☐	☐	☐	☐
815	Fathead Minnow Chronic 20% DMV - Growth (SN)	☐	☐	☐	☐
813	Fathead Minnow Chronic 20% DMV - Growth IC (SN)	☐	☐	☐	☐
814	Fathead Minnow Chronic 20% DMV - Growth NOEC (ON)	☐	☐	☐	☐
759	Fathead Minnow Chronic 20% DMV - Survival NOEC	☐	☐	☐	☐
Test Code 19 / EPA Method 2002					
764	Ceriodaphnia Acute MHSF 25° - LC50	☒	☒	☐	☐
Test Code 20 / EPA Method 2002					
765	Ceriodaphnia Acute 20% DMW 25° - LC50	☐	☐	☐	☐
Test Code 21 / EPA Method 1002					
767	Ceriodaphnia Chronic MHSF - Reproduction IC25	☒	☒	☐	☐
768	Ceriodaphnia Chronic MHSF - Reproduction NOEC	☒	☒	☐	☐
766	Ceriodaphnia Chronic MHSF - Survival NOEC	☒	☒	☐	☐
Test Code 22 / EPA Method 1002					
770	Ceriodaphnia Chronic 20% DMW - Reproduction IC25	☐	☐	☐	☐
771	Ceriodaphnia Chronic 20% DMW - Reproduction NOEC	☐	☐	☐	☐
769	Ceriodaphnia Chronic 20% DMW - Survival NOEC	☐	☐	☐	☐
Test Code 32 / EPA Method 2021					
788	Daphnia Magna Acute MHSF 25° - LC50	☐	☐	☐	☐
Test Code 38 / EPA Method 2021					
794	Daphnia Pulex MHSF 25° - LC50	☒	☒	☐	☐
Test Code 42 / EPA Method 2007					
798	Mysid Acute 40 F 25° - LC50	☐	☐	☐	☐
Test Code 43 / EPA Method 1007					
816	Mysid Chronic 40 F Growth IC25 (ON)	☐	☐	☐	☐
817	Mysid Chronic 40 F Growth IC25 (SN)	☐	☐	☐	☐
818	Mysid Chronic 40 F Growth NOEC (ON)	☐	☐	☐	☐
819	Mysid Chronic 40 F Growth NOEC (SN)	☐	☐	☐	☐
799	Mysid Chronic 40 F Survival NOEC	☐	☐	☐	☐
Test Code 44 / EPA Method 2006					
803	Menidia Acute 40 F 25° - LC50	☐	☐	☐	☐
Test Code 46 / EPA Method 2004					
804	Sheepshead Minnow Acute 40 F 25° - LC50	☐	☐	☐	☐
Test Code 47 / EPA Method 1004					
820	Sheepshead Minnow Chronic 40 F - Growth IC25 (ON)	☐	☐	☐	☐
821	Sheepshead Minnow Chronic 40 F - Growth IC25 (SN)	☐	☐	☐	☐
822	Sheepshead Minnow Chronic 40 F - Growth NOEC (ON)	☐	☐	☐	☐
823	Sheepshead Minnow Chronic 40 F - Growth NOEC (SN)	☐	☐	☐	☐
805	Sheepshead Minnow Chronic 40 F - Survival NOEC	☐	☐	☐	☐
Test Code 45 / EPA Method 1006					
825	Inland silverside (Menidia berylina) IC25 (ON) GRO	☐	☐	☐	☐
826	Inland silverside (Menidia berylina) NOEC (ON) GRO	☐	☐	☐	☐
824	Inland silverside (Menidia berylina) NOEC SURVIVAL	☐	☐	☐	☐

Name	Signature	Date
John Batarski	John Batarski	8-1-16

ERA

A Waters Company

John E. Batorski
Veolia Water - Naugatuck County
500 Cherry Street
Naugatuck, CT 06770
USA

DMR-QA 36 Final Report

DMR-QA Study Results

NPDES Permit: CT0100641

DMR-QA Study

Open Date: 03/18/16

Close Date: 07/01/16

Report Issued Date: 07/29/16

ERA

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July 29, 2016

John E. Batorski
Veolia Water - Naugatuck County
500 Cherry Street
Naugatuck, CT 06770

Enclosed is your final report for ERA's DMR-QA 36 Proficiency Testing study. Please note that reports were sent on your behalf to your state or regional DMR-QA Coordinator. As the permit holder, you are required to review and sign the attached forms and forward them to your DMR-QA Coordinator by August 26, 2016. Your Coordinator's contact information is provided below.

All analytes in ERA's DMR-QA 36 Proficiency Testing study have been evaluated by comparing the reported result to the acceptance limits generated using the criteria contained in the most current TNI FoPT tables.

If you have any "Not Acceptable" evaluations for the DMR-QA 36 study, a letter of corrective action and an order form for the required remedial samples are attached for your convenience. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA Coordinator for their corrective action requirements, if any.

Thank you for your participation in ERA's DMR-QA 36 Proficiency Testing study. If you have any questions, please contact the Proficiency Testing department at 1-800-372-0122.

Your DMR-QA coordinator is:

Connecticut DEP
Donald Gonyea
Bureau of Materials Management and Compliance Assurance
79 Elm Street
Hartford, CT 6106
Phone: 860-424-3827
Fax: 860-424-4074
donald.gonyea@ct.gov

Sincerely,

Patrick Larson
Quality Officer

attachments

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DMR-QA 36 Definitions & Study Discussion

Study Dates: 03/18/16 - 07/01/16

Report Issued: 07/29/16

DMRQA Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI FoPT tables. The Assigned Values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT tables.

The Performance Evaluation:

Acceptable	= Reported Value falls within the Acceptance Limits.
Not Acceptable	= Reported Value falls outside the Acceptance Limits.
No Evaluation	= Reported Value cannot be evaluated.
Not Reported	= No Value reported.

The Method Description is the method the laboratory reported to ERA.

DMRQA Study Discussion

ERA's DMR-QA 36 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the criteria contained in the current TNI FoPT tables.

ERA's DMR-QA 36 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in ththe 2009 TNI PT Standard and the criteria contained in the current TNI Fields of Proficiency Testing (FoPT) tables.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's DMR-QA 36 study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.

ERA
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Study: **DMR-QA 36**

NPDES Permit #: **CT0100641**

Laboratory Name: **Veolia Water - Naugatuck County**

Inorganic Results

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

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DMR-QA 36 Final Report

NPDES Permit #: CT0100641
Permit Holder: John E. Batorski
Plant Manager
Veolia Water - Naugatuck County
500 Cherry Street
Naugatuck, CT 06770
203-723-1433

ERA Customer Number: N064601
Report Issued: 07/29/16
Study Dates: 03/18/16 - 07/01/16

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Minerals (cat# 581, lot# Q036-506)											
1505	Alkalinity as CaCO3	mg/L	Acceptable	43.4	42.0	35.7 - 48.3	SM 2320 B-2011 2011	41.7	2.53	CT00007	DMRQA36
1575	Chloride	mg/L	Acceptable	122	124	109 - 139	EPA 300.0 2.1 1993	121	4.57	CT00007	DMRQA36
1610	Conductivity at 25°C	µmhos/cm	Acceptable	602	605	545 - 666	SM 2510 B-2011 2011	604	13.2	CT00007	DMRQA36
1730	Fluoride	mg/L	Acceptable	3.42	3.39	2.74 - 3.90	SM 4500-F C-2011 2011	3.32	0.151	CT00007	DMRQA36
2000	Sulfate	mg/L	Acceptable	36.3	38.7	31.5 - 44.5	EPA 300.0 2.1 1993	37.5	2.26	CT00007	DMRQA36
1955	Total Dissolved Solids at 180°C	mg/L	Acceptable	370	368	323 - 413	SM 2540 C-2011 2011	359	18.4	CT00007	DMRQA36
DMRQA Hardness (cat# 580, lot# Q036-507)											
1960	Total Suspended Solids	mg/L	Acceptable	35.0	35.1	25.6 - 41.4	SM 2540 D-2011 2011	33.3	1.90	CT00007	DMRQA36
1755	Total Hardness as CaCO3	mg/L	Acceptable	303	295	251 - 339	EPA 200.7 4.4 1994	293	9.71	CT00007	DMRQA36
WP pH (cat# 577, lot# P254-977)											
1900	pH	S.U.	Acceptable	8.33	8.31	8.11 - 8.51	SM4500H+ B online	8.27	0.0860	CT00946	WP254
DMRQA pH (cat# 577, lot# Q036-977)											
1900	pH	S.U.	Acceptable	7.54	7.50	7.30 - 7.70	SM 4500-H+ B-2011 2011	7.54	0.0679	CT00007	DMRQA36
DMRQA Settleable Solids (cat# 883, lot# Q036-911)											
1965	Settleable Solids	mL/L	Acceptable	30	27.1	22.1 - 34.5	SM 2540 F-2011 2011	29.1	1.87	CT00007	DMRQA36
DMRQA Simple Nutrients (cat# 584, lot# Q036-505)											
1515	Ammonia as N	mg/L	Acceptable	12.0	11.4	9.10 - 13.6	EPA 350.1 2 1993	11.4	0.832	CT00007	DMRQA36
1810	Nitrate as N	mg/L	Acceptable	3.54	3.47	2.74 - 4.18	EPA 300.0 2.1 1993	3.48	0.229	CT00007	DMRQA36
1870	ortho-Phosphate as P	mg/L	Acceptable	2.92	2.96	2.52 - 3.40	SM 4500-P F-2011 2011	3.03	0.170	CT00007	DMRQA36

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DMR-QA 36 Final Report

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Plant Manager
Veolia Water - Naugatuck County
500 Cherry Street
Naugatuck, CT 06770
203-723-1433

ERA Customer Number: N064601
Report Issued: 07/29/16
Study Dates: 03/18/16 - 07/01/16

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Complex Nutrients (cat# 579, lot# Q036-525)											
1795	Total Kjeldahl Nitrogen	mg/L	Acceptable	24.9	24.5	18.4 - 29.6	EPA 351.1 1978	24.0	1.86	CT00007	DMRQA36
1910	Total phosphorus as P	mg/L	Acceptable	9.60	9.31	7.77 - 10.7	SM 4500-P E-2011 2011	9.41	0.447	CT00007	DMRQA36
DMRQA Nitrite (cat# 888, lot# Q036-770)											
1840	Nitrite as N	mg/L	Acceptable	2.16	2.16	1.84 - 2.48	EPA 300.0 2.1 1993	2.20	0.0937	CT00007	DMRQA36
DMRQA Demand (cat# 578, lot# Q036-516)											
1530	BOD	mg/L	Acceptable	64.0	61.1	32.1 - 90.0	SM 5210 B-2011 2011	62.4	10.7	CT00007	DMRQA36
1555	CBOD	mg/L	Acceptable	60.0	55.3	24.8 - 85.8	SM 5210 B-2011 2011	58.2	11.9	CT00007	DMRQA36
1565	COD	mg/L	Acceptable	94.3	99.0	75.2 - 119	SM 5220 D-2011 2011	98.9	7.33	CT00007	DMRQA36
2040	TOC	mg/L	Acceptable	38.0	39.1	32.4 - 45.6	SM 5310 C-2011 2011	39.1	1.94	CT00007	DMRQA36
DMRQA Oil & Grease (cat# 582, lot# Q036-518)											
1860	n-Hexane Extractable Material(O&G)(Grav)	mg/L	Acceptable	47.7	68.0	46.2 - 80.9	EPA 1664A 1999	63.4	6.33	CT00007	DMRQA36

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DMR-QA 36 Final Report

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TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Trace Metals (cat# 586, lot# Q036-500)											
1000	Aluminum	µg/L	Acceptable	1740	1770	1460 - 2030	EPA 200.7 4.4 1994	1790	113	CT00007	DMRQA36
1005	Antimony	µg/L	Acceptable	479	496	400 - 577	EPA 200.7 4.4 1994	486	22.8	CT00007	DMRQA36
1010	Arsenic	µg/L	Acceptable	748	751	635 - 857	EPA 200.7 4.4 1994	739	28.6	CT00007	DMRQA36
1015	Barium	µg/L	Acceptable	1650	1620	1380 - 1860	EPA 200.7 4.4 1994	1620	53.8	CT00007	DMRQA36
1020	Beryllium	µg/L	Acceptable	312	302	257 - 347	EPA 200.7 4.4 1994	302	12.0	CT00007	DMRQA36
1025	Boron	µg/L	Acceptable	995	1030	876 - 1180	EPA 200.7 4.4 1994	1040	50.1	CT00007	DMRQA36
1030	Cadmium	µg/L	Acceptable	376	385	327 - 443	EPA 200.7 4.4 1994	381	15.5	CT00007	DMRQA36
1040	Chromium	µg/L	Acceptable	250	251	213 - 289	EPA 200.7 4.4 1994	253	10.7	CT00007	DMRQA36
1050	Cobalt	µg/L	Acceptable	504	487	414 - 560	EPA 200.7 4.4 1994	507	21.1	CT00007	DMRQA36
1055	Copper	µg/L	Acceptable	323	323	275 - 371	EPA 200.7 4.4 1994	324	14.1	CT00007	DMRQA36
1070	Iron	µg/L	Acceptable	1790	1780	1510 - 2050	EPA 200.7 4.4 1994	1780	76.5	CT00007	DMRQA36
1075	Lead	µg/L	Acceptable	747	731	621 - 841	EPA 200.7 4.4 1994	731	28.8	CT00007	DMRQA36
1090	Manganese	µg/L	Acceptable	1710	1680	1430 - 1930	EPA 200.7 4.4 1994	1700	70.8	CT00007	DMRQA36
1100	Molybdenum	µg/L	Acceptable	392	414	358 - 466	EPA 200.7 4.4 1994	408	15.6	CT00007	DMRQA36
1105	Nickel	µg/L	Acceptable	608	603	527 - 683	EPA 200.7 4.4 1994	609	18.3	CT00007	DMRQA36
1140	Selenium	µg/L	Acceptable	223	248	211 - 285	EPA 200.7 4.4 1994	242	11.1	CT00007	DMRQA36
1150	Silver	µg/L	Acceptable	543	563	479 - 647	EPA 200.7 4.4 1994	557	27.9	CT00007	DMRQA36
1160	Strontium	µg/L	Acceptable	284	267	227 - 307	EPA 200.7 4.4 1994	271	12.1	CT00007	DMRQA36
1185	Vanadium	µg/L	Acceptable	540	543	462 - 624	EPA 200.7 4.4 1994	539	16.7	CT00007	DMRQA36
1190	Zinc	µg/L	Acceptable	410	422	359 - 485	EPA 200.7 4.4 1994	422	19.8	CT00007	DMRQA36
DMRQA Trace Metals (cat# 586, lot# Q036-500)											
1165	Thallium	µg/L	Acceptable	276	261	208 - 308	SM 3113 B-2004 2004	259	12.4	CT00007	DMRQA36

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DMR-QA 36 Final Report

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203-723-1433

ERA Customer Number: N064601
Report Issued: 07/29/16
Study Dates: 03/18/16 - 07/01/16

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Mercury (cat# 574, lot# Q036-514)											
1095	Mercury	µg/L	Acceptable	7.22	7.44	5.21 - 9.67	EPA 245.1 3 1994	7.55	0.470	CT00007	DMRQA36
DMRQA Hexavalent Chromium (cat# 898, lot# Q036-984)											
1045	Hexavalent Chromium	µg/L	Acceptable	799	765	644 - 876	SM 3500-Cr B-2011 2011	757	35.3	CT00007	DMRQA36
DMRQA Turbidity (cat# 893, lot# Q036-777)											
2055	Turbidity	NTU	Acceptable	9.40	10.2	8.28 - 12.1	SM 2130 B-2011 2011	10.0	0.498	CT00007	DMRQA36
DMRQA Total Cyanide (cat# 588, lot# Q036-502)											
1645	Cyanide, total	mg/L	Acceptable	0.626	0.591	0.384 - 0.798	EPA 335.4 1993	0.638	0.0590	CT00007	DMRQA36
DMRQA Total Phenolics (4-AAP) (cat# 589, lot# Q036-515)											
1905	Phenolics, total	mg/L	Acceptable	0.638	0.640	0.317 - 0.964	EPA 420.4 1 1993	0.714	0.115	CT00007	DMRQA36
WP Total Residual Chlorine (cat# 587, lot# P254-501)											
1940	Total Residual Chlorine	mg/L	Acceptable	1.14	1.22	0.906 - 1.45	SM4500Cl G online	1.18	0.0786	CT00946	WP254
DMRQA Total Residual Chlorine (cat# 587, lot# Q036-501)											
1940	Total Residual Chlorine	mg/L	Acceptable	1.46	1.40	1.04 - 1.66	SM 4500-Cl G-2011 2011	1.38	0.107	CT00007	DMRQA36

ERA
A Waters Company

Study: **DMR-QA 36**

NPDES Permit #: **CT0100641**

Laboratory Name: **Veolia Water - Naugatuck County**

Microbiology Results

ERA
A Waters Company

DMR-QA 36 Final Report

NPDES Permit #: CT0100641
Permit Holder: John E. Batorski
Plant Manager
Veolia Water - Naugatuck County
500 Cherry Street
Naugatuck, CT 06770
203-723-1433

ERA Customer Number: N064601
Report Issued: 07/29/16
Study Dates: 03/18/16 - 07/01/16

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA WasteWatR™ Coliform MicrobE™ (cat# 576, lot# Q036-083)											
2530	Fecal Coliforms (MF)	CFU/100mL	Acceptable	640	1330	130 - 2690	SM 9222 D (m-FC)-2006 2006	592	427	CT00007	DMRQA36
2500	Total Coliforms (MPN)	MPN/100mL	Acceptable	1180	1420	388 - 3970	SM 9223 B (Colilert®-18 Quanti-Tray®)-1997 1997	1240	598	CT00007	DMRQA36
2525	E.coli (MPN)	MPN/100mL	Acceptable	1180	1420	466 - 3200	SM 9223 B (Colilert®-18 Quanti-Tray®)-1997 1997	1220	455	CT00007	DMRQA36

Per Section 6.4.3 a of the 2009 TNI Standard, "The assigned values for quantitative microbiology analytes shall be equal to the mean of the assigned value verification and/or homogeneity testing per Sections 7.1 and 7.2". The final acceptance limits are derived from the calculated study mean and study standard deviation from laboratory-reported results. Disagreement between the assigned values and study means/acceptance limits are due to the inherent variability of microbiology methods and differences in the methods used by ERA and participant laboratories. For quantitative microbiology analytes, the assigned value is not used in the evaluation of laboratories.

USEPA
DMR-QA 36

NPDES PERMITTEE DATA REPORT FORM

Due August 26, 2016

USEPA NPDES Permit #: CT0100641

Permit Ext:

Permittee Name: Veolia Water - Naugatuck County

Facility Address: 500 Cherry Street

City: Naugatuck State: CT Postal Code: 06770

Phone Number: 203-723-1433 Fax Number: 203-723-8539

E-mail address: john.batorski@veolia.com

Optional: If WP study was used, list PT provider name: Environmental Resource Associates

Optional: WP study number(s): WP-254

For DMRQA-36, conducted in 2016, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples	Submitted Complete and Accurate Data by July 1, 2016	Received a Graded Report by July 29, 2016
Yes ☑ No ☐	Yes ☑ No ☐	Yes ☑ No ☐

Certification by Permit Holder or Authorized Representative

(as per 40 C.F.R. Section 122.22)

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. Each reported value was produced from a single analytical run using the analytical system that rountinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) Permit. Neither I nor any of my subordinates compared our results from independent analyses conducted by us or any other laboratory before we reported our results to the USEPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official: John E. Batorski Title: Plant Manager

Signature: John E. Batorski Date Signed: 8/1/16

Mailing Address: 500 Cherry Street

(enter only if different from address above)

City: Naugatuck State: CT Postal Code: 06770

Phone Number: 203-723-1433 E-mail address: john.batorski@veolia.com

Please make corrections in boxes above

United States

ENVIRONMENTAL PROTECTION AGENCY

Laboratory Performance Evaluation

Laboratory DMR-QA Evaluation Study 36

USEPA NPDES Permit #: CT0100641 **Permit Ext:**

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			CHEM	MICRO	TOX		
Phoenix Environmental Lab	PO Box 370 Manchester,CT 06040	CT00007	☑	☑	☑	C	☑
Veolia Water - Naugatuck County	500 Cherry St. Ext. Naugatuck,CT 06770	CT00946 pH & chlorine only	☐	☐	☐	O	☐

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote 2 on DMRQA-36, Frequently Asked Questions page

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00007

Chemistry/Microbiology Analyte Checklist

DMRQA Study 36

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Minerals				
Alkalinity as CaCO3 SM 2320 B-2011	☐	☒	☐	☐
Chloride EPA 300.0	☐	☒	☐	☐
Conductivity at 25°C SM 2510 B-2011	☐	☒	☐	☐
Fluoride SM 4500-F C-2011	☐	☒	☐	☐
Potassium				
Sodium				
Sulfate EPA 300.0	☐	☒	☐	☐
Total Dissolved Solids at 180°C SM 2540 C-2011	☐	☒	☐	☐
Total Solids at 105°C				
Hardness				
Total Suspended Solids SM 2540 D-2011	☐	☒	☐	☐
Calcium				
Magnesium				
Calcium Hardness as CaCO3				
Total Hardness as CaCO3 EPA 200.7	☐	☒	☐	☐
pH				
pH SM 4500-H+ B-2011	☐	☒	☐	☐
Settleable Solids				
Settleable Solids SM 2540 F-2011	☐	☒	☐	☐
Solids Concentrate				
Total Suspended Solids				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Solids				
Total Suspended Solids				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Simple Nutrients				
Ammonia as N EPA 350.1	☐	☒	☐	☐
Nitrate + Nitrite as N				
Nitrate as N				

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00007

Chemistry/Microbiology Analyte Checklist

DMRQA Study 36

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
EPA 300.0	☐	☒	☐	☐
ortho-Phosphate as P SM 4500-P F-2011	☐	☒	☐	☐
Complex Nutrients				
Total Kjeldahl Nitrogen EPA 351.1	☐	☒	☐	☐
Total phosphorus as P SM 4500-P E-2011	☐	☒	☐	☐
Nitrite				
Nitrite as N EPA 300.0	☐	☒	☐	☐
Demand				
BOD SM 5210 B-2011	☐	☒	☐	☐
CBOD SM 5210 B-2011	☐	☒	☐	☐
COD SM 5220 D-2011	☐	☒	☐	☐
TOC SM 5310 C-2011	☐	☒	☐	☐
Oil & Grease Concentrate				
n-Hexane Extractable Material(O&G) (Grav)				
Oil & Grease				
n-Hexane Extractable Material(O&G) (Grav) EPA 1664A **n-Hexane Extractable Material(O&G) (IR)**	☐	☒	☐	☐
Trace Metals				
Aluminum EPA 200.7	☐	☒	☐	☐
Antimony EPA 200.7	☐	☒	☐	☐
Arsenic EPA 200.7	☐	☒	☐	☐
Barium EPA 200.7	☐	☒	☐	☐
Beryllium EPA 200.7	☐	☒	☐	☐
Boron EPA 200.7	☐	☒	☐	☐

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00007

Chemistry/Microbiology Analyte Checklist

DMRQA Study 36

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Cadmium EPA 200.7	☐	☒	☐	☐
Chromium EPA 200.7	☐	☒	☐	☐
Cobalt EPA 200.7	☐	☒	☐	☐
Copper EPA 200.7	☐	☒	☐	☐
Iron EPA 200.7	☐	☒	☐	☐
Lead EPA 200.7	☐	☒	☐	☐
Manganese EPA 200.7	☐	☒	☐	☐
Molybdenum EPA 200.7	☐	☒	☐	☐
Nickel EPA 200.7	☐	☒	☐	☐
Selenium EPA 200.7	☐	☒	☐	☐
Silver EPA 200.7	☐	☒	☐	☐
Strontium EPA 200.7	☐	☒	☐	☐
Thallium SM 3113 B-2004	☐	☒	☐	☐
Vanadium EPA 200.7	☐	☒	☐	☐
Zinc EPA 200.7	☐	☒	☐	☐
Low-Level Mercury				
Low Level Mercury				
Mercury				
Mercury EPA 245.1	☐	☒	☐	☐
Hexavalent Chromium				
Hexavalent Chromium SM 3500-Cr B-2011	☐	☒	☐	☐
Turbidity				
Turbidity SM 2130 B-2011	☐	☒	☐	☐

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00007

Chemistry/Microbiology Analyte Checklist

DMRQA Study 36

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Total Cyanide				
Cyanide, total EPA 335.4 **Amenable Cyanide**	☐	☒	☐	☐
Total Phenolics (4-AAP)				
Phenolics, total EPA 420.4	☐	☒	☐	☐
Total Residual Chlorine				
Total Residual Chlorine SM 4500-Cl G-2011	☐	☒	☐	☐
Low-Level Total Residual Chlorine				
Low Level Total Residual Chlorine				
WasteWatR™ Coliform MicrobE™				
Total Coliforms (MF) Fecal Coliforms (MF) SM 9222 D (m-FC)-2006 **E.coli (MF)**	☐	☒	☐	☐
Total Coliforms (MPN) SM 9223 B (Colilert®-18 Quanti-Tray®)-1997 **Fecal Coliforms (MPN)**	☐	☒	☐	☐
E.coli (MPN) SM 9223 B (Colilert®-18 Quanti-Tray®)-1997	☐	☒	☐	☐

John Batorski
Print Name

8-1-16
Date

John Batorski Plant Manager
Signature/Title

Use a separate checklist for EACH lab used

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00946

Chemistry/Microbiology Analyte Checklist

WP Study 254

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Minerals				
Alkalinity as CaCO3				
Chloride				
Conductivity at 25°C				
Fluoride				
Potassium				
Sodium				
Sulfate				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Hardness				
Total Suspended Solids				
Calcium				
Magnesium				
Calcium Hardness as CaCO3				
Total Hardness as CaCO3				
pH				
pH				
SM4500H+ B	☐	☒	☐	☐
Settleable Solids				
Settleable Solids				
Solids Concentrate				
Total Suspended Solids				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Solids				
Total Suspended Solids				
Total Dissolved Solids at 180°C				
Total Solids at 105°C				
Simple Nutrients				
Ammonia as N				
Nitrate + Nitrite as N				
Nitrate as N				
ortho-Phosphate as P				
Complex Nutrients				
Total Kjeldahl Nitrogen				
Total phosphorus as P				
Nitrite				
Nitrite as N				
Demand				
BOD				
CBOD				
COD				
TOC				

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00946

Chemistry/Microbiology Analyte Checklist

WP Study 254

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Oil & Grease Concentrate				
n-Hexane Extractable Material(O&G) (Grav)				
Oil & Grease				
n-Hexane Extractable Material(O&G) (Grav)				
n-Hexane Extractable Material(O&G) (IR)				
Trace Metals				
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Manganese				
Molybdenum				
Nickel				
Selenium				
Silver				
Strontium				
Thallium				
Vanadium				
Zinc				
Low-Level Mercury				
Low Level Mercury				
Mercury				
Mercury				
Hexavalent Chromium				
Hexavalent Chromium				
Turbidity				
Turbidity				
Total Cyanide				
Cyanide, total				
Amenable Cyanide				
Total Phenolics (4-AAP)				
Phenolics, total				

Permittee Name: Veolia Water - Naugatuck County **Permit Number:** CT0100641 **EPA Lab Code:** CT00946

Chemistry/Microbiology Analyte Checklist

WP Study 254

Analyte Test / Method	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab
		Acceptable	Not Acceptable (Corrective Action Required)	
Total Residual Chlorine				
Total Residual Chlorine SM4500Cl G	☐	☒	☐	☐
Low-Level Total Residual Chlorine				
Low Level Total Residual Chlorine				
WasteWatR™ Coliform MicrobE™				
Total Coliforms (MF) Fecal Coliforms (MF) E.coli (MF) Total Coliforms (MPN) Fecal Coliforms (MPN) E.coli (MPN)				

John Batorski
Print Name

John Batorski Plant Manager
Signature/Title

8-1-16
Date

Use a separate checklist for EACH lab used

CERTIFICATE OF RECOGNITION

ERA congratulates

VEOLIA WATER - NAUGATUCK COUNTY

for your participation and successful evaluation in WP-254. We recognize the performance of this laboratory for achieving acceptable evaluations for the following analytes.

pH

Total Residual Chlorine

Patrick Larson
Quality Officer

N064601

COPY

VEOLIA

Sent via Certified R.R.R. mail 7014 1200 0002 2237 0339 on July 20, 2016

Connecticut Department of Environmental Protection
Bureau of Air Management
Compliance Analysis & Coordination Unit
79 Elm Street
Hartford, CT 06106-5127

July 20, 2016

Subject: Title V Semi-Annual Monitoring Report January 1, 2016 to June 30 2016.

Dear Sir/Madam:

Enclosed you will find a copy of the above referenced report that was sent to the EPA. There were no exceptions to the attached report. The incinerator was shutdown in January 2016 after a major malfunction, as is reflected in the data. It was shut down again in February 2016 after attempted repairs were unsuccessful. Major repairs immediately followed and the incinerator was restarted on June 21, 2016.

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

Sincerely,
Veolia Water North America – Northeast, LLC

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

VEOLIA

Sent via Certified R.R.R. mail 7014 1200 0002 2237 0315 on July 20, 2016

EPA Region 7
ATTN: Biosolids Center
WWPD/WENF
11201 Renner Boulevard
Lenexa, Kansas 66219

July 20, 2016

Subject: 2016 – H1 Semi-Annual EPA Summary Report for the Naugatuck, CT POTW

Dear Sir/Madam:

Enclosed please find the Title V Semi-Annual EPA Summary Report for the first half of calendar year 2016. The incinerator was shutdown in January 2016 after a major malfunction, as is reflected in the data. It was shut down again in February 2016 after attempted repairs were unsuccessful. Major repairs immediately followed and the incinerator was restarted on June 21, 2016.

Please contact me if you have any questions regarding the enclosed 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

SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE1

POLLUTANT: LOW OVERALL DP
SOURCE: FB Incinerator
CEMS ID: 1234567

DATE CREATED: 07/19/2016 @ 08:57
PERIOD: 01/01/2016 - 06/30/2016

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT

EMISSION LIMITATION: 8.0 ("WC) LIMIT

MONITOR MANUF / MODEL #: Rosemount
LATEST CMS AUDIT: 06/28/2016
PROCESS UNIT(S) DESC: EMU 52

Total source operating time in reporting period: 805.62 Hours

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to		1. CMS Downtime in reporting period due to	
a. Startup/shutdown	6.05	a. Monitor equipment malfunctions	0.00
b. Control equipment problems	0.00	b. Non-monitor equipment malfunctions	0.00
c. Process problems	0.00	c. Quality assurance calibration	0.00
d. Other known causes	0.97	d. Other known causes	0.00
e. Unknown causes	0.28	e. Unknown causes	0.00
2. Total duration of excess emissions	7.30	2. Total CMS Downtime	0.00
3. % of source operating time (2)	0.9%	3. % of source operating time (2)	0.0%

Notes:
(1) For opacity record all times in minutes. For gases record all times in hours.
(2) For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time both the summary report form and the excess emission report described in 60.7(c) shall be submitted.
On a separate page describe any changes since last quarter in CMS process or controls.
I certify that the information contained in this report is true accurate and complete.

Name: John Batarski

Signature: John Batarski

Title: Plant Manager

Date: 7-20-16

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/19/2016 @ 08:57
PERIOD: 01/01/2016 - 06/30/2016 11:00:00 PM

EXCESS EMISSION PERIODS: LOW OVERALL DP >15-MIN ("wc)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
01/04/2016	07:43	07:59	0.28	0.1	0.0	8.0	7.9	8	NORMAL OPERATION	CORRECTIVE ACTION CODE 08
01/10/2016	10:07	10:35	0.48	0.6	0.2	8.0	7.4	6	Power Failure	Power restored
01/17/2016	08:51	09:19	0.48	0.0	0.0	8.0	8.0	6	Power Failure	Power restored
01/22/2016	20:21	22:04	1.73	0.0	0.1	8.0	8.0	4	PROCESS OFF	N/A
02/25/2016	09:31	10:51	1.35	0.3	0.3	8.0	7.7	4	PROCESS OFF	Incinerator down Feb to June 2016
02/25/2016	13:22	16:19	2.97	0.3	0.3	8.0	7.7	4	PROCESS OFF	Incinerator down Feb to June 2016

TOTAL HOURS: LOW OVERALL DP >15-MIN ("wc)

CODE	DURATION	PERCENT	EXPLANATION
4	6.05	82.88	PROCESS OFF
6	0.97	13.24	Power Failure
8	0.28	3.88	NORMAL OPERATION

INCIDENT TOTAL DURATION: 7.30

COMPANY:	VEOLIA WATER NORTH AMERICA
LOCATION:	Naugatuck, CT
SOURCE:	FB Incinerator
CEMS ID:	1234567
DATE CREATED:	07/19/2016 @ 08:57
PERIOD:	01/01/2016 - 06/30/2016 11:00:00 PM

CMS DOWNTIME: OVERALL DP ("wc)

DATE	HOUR	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
01/01/2016 - 06/30/2016	NO	INCIDENT	OCCURRED		

SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE2

POLLUTANT: O2-Dry
SOURCE: FB Incinerator
CEMS ID: 1234567

DATE CREATED: 07/19/2016 @ 07:39
PERIOD: 01/01/2016 - 06/30/2016

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT

EMISSION LIMITATION: 13.5(%) LIMIT

MONITOR MANUF / MODEL #: Rosemount
LATEST CMS AUDIT: 06/28/2016
PROCESS UNIT(S) DESC: EMU 52

Total source operating time in reporting period: 805.37 Hours

Emission Data Summary (1)		CMS Performance Summary (1)	
1. Duration of excess emissions in reporting period due to		1. CMS Downtime in reporting period due to	
a. Startup/shutdown	4.53	a. Monitor equipment malfunctions	0.00
b. Control equipment problems	0.00	b. Non-monitor equipment malfunctions	0.00
c. Process problems	0.00	c. Quality assurance calibration	0.00
d. Other known causes	2.52	d. Other known causes	10.23
e. Unknown causes	0.00	e. Unknown causes	0.00
2. Total duration of excess emissions	7.05	2. Total CMS Downtime	10.23
3. % of source operating time (2)	0.9%	3. % of source operating time (2)	1.3%

Notes:
(1) For opacity record all times in minutes. For gases record all times in hours.
(2) For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time both the summary report form and the excess emission report described in 60.7(c) shall be submitted.
On a separate page describe any changes since last quarter in CMS process or controls.
I certify that the information contained in this report is true accurate and complete.

Name: John Bartosk:

Signature: John Bartosk

Title: Plant Manager

Date: 7-20-16

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/19/2016 @ 07:39
PERIOD: 01/01/2016 - 06/30/2016 11:00:00 PM

EXCESS EMISSION PERIODS: HI O2-D >60-MIN (%)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
01/22/2016	19:41	22:04	2.40	20.5	20.5	13.5	7.0	4	PROCESS OFF	N/A
02/09/2016	09:08	11:15	2.13	16.2	17.1	13.5	2.7	3	STARTUP	CORRECTIVE ACTION CODE 08
02/11/2016	02:24	04:54	2.52	14.5	15.0	13.5	1.0	1	SHUTDOWN PROCEDURE	CORRECTIVE ACTION CODE 08

TOTAL HOURS: HI O2-D >60-MIN (%)

CODE	DURATION	PERCENT	EXPLANATION
1	2.52	35.70	SHUTDOWN PROCEDURE
3	2.13	30.26	STARTUP
4	2.40	34.04	PROCESS OFF

INCIDENT TOTAL DURATION: 7.05

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/19/2016 @ 07:39
PERIOD: 01/01/2016 - 06/30/2016 11:00:00 PM

CMS DOWNTIME: O2-D (%)

DATE	HOUR	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
01/04/2016	12	0.25	13	PROCESS DOWN	N/A
01/11/2016	09	0.23	13	PROCESS DOWN	N/A
01/11/2016	11	0.02	13	PROCESS DOWN	N/A
01/14/2016	11	1.00	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/14/2016	12	1.00	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/17/2016	09	0.33	13	PROCESS DOWN	N/A
01/17/2016	10	0.42	13	PROCESS DOWN	N/A
01/21/2016	14	0.43	13	PROCESS DOWN	N/A
01/21/2016	15	0.07	13	PROCESS DOWN	N/A
01/25/2016	07	0.62	13	PROCESS DOWN	N/A
01/25/2016	10	0.50	13	PROCESS DOWN	N/A
01/25/2016	11	0.52	13	PROCESS DOWN	N/A
01/26/2016	05	0.22	13	PROCESS DOWN	N/A
02/09/2016	06	0.65	13	PROCESS DOWN	N/A
06/23/2016	07	0.38	13	PROCESS DOWN	N/A
06/23/2016	09	0.52	13	PROCESS DOWN	N/A
06/23/2016	13	0.23	13	PROCESS DOWN	N/A
06/26/2016	04	0.12	13	PROCESS DOWN	N/A
06/26/2016	17	0.73	13	PROCESS DOWN	N/A
06/30/2016	11	1.00	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/30/2016	12	1.00	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

INCIDENT SUMMARY: O2-D (%)

CODE	DURATION	PERCENT	EXPLANATION
13	6.23	60.91	PROCESS DOWN
20	4.00	39.09	CORRECTIVE MAINTENANCE

INCIDENT TOTAL DURATION: 10.23

COPY

VEOLIA

Sent via Certified R.R.R. mail 7014 1200 0002 2237 0186 on July 20, 2016

Connecticut Department of Environmental Protection
Bureau of Air Management
Compliance Analysis & Coordination Unit
79 Elm Street
Hartford, CT 06106-5127

July 20, 2016

Subject: Continuous Opacity Monitoring System Summary Report, April 1, 2016 to June 30, 2016

Dear Sir/Madam:

Enclosed please find copies of the above referenced report. There were no exceptions to the attached report. The incinerator was shutdown in January 2016 after a major malfunction, as is reflected in the data. It was shut down again in February 2016 after attempted repairs were unsuccessful. Major repairs immediately followed and the incinerator was restarted on June 21, 2016.

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

Sincerely,
Veolia Water North America – Northeast, LLC

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

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Air Management
Compliance Analysis & Coordination Unit
79 Elm Street
Hartford, Connecticut 06106-5127

Client #:
Sequence #:
Town #:
Premises #:
CADIS Tracking #:

Continuous Opacity Monitoring System Summary Report

Part 1: FACILITY INFORMATION

Corporation Name	Borough of Naugatuck		
Premises Name	Borough of Naugatuck POTW		
Corporation Address	229 Church Street, Naugatuck, CT 06770		
Premises Address	500 Cherry Street, Naugatuck, CT 06770		
Premises Contact Person	John Batorski		
Contact Phone/FAX/e-mail	(203) 723-1433	(203) 723-8539	
Reporting Period Dates	From: April 1, 2016	To: June 30, 2016	
Were there any monitoring system failures during this reporting period? (Yes/ No - provide details in report).	YES	Attachments: COMS data (CD or diskette); COMS data (e-mailed); ☐ Copy of quarterly QA audits; ☐ Excepted activities records (if requested).	
Are any excess emissions being reported during this reporting period? (Yes/No - provide details in report).	NO		

Part 2: CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, under section 22a-175 of the Connecticut General Statutes, under section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Preparer : CK Environmental

Date: July 14, 2016

Plant Signature: John Batorski

Print (or type) John Batorski

Name and Title: Plant Manager

PART 3: PERFORMANCE REPORT			
Facility Name:	Borough of Naugatuck POTW		
Combustion Unit(s) Descriptions	Fluidized Bed Incinerator		
UNIT AND MONITOR INFORMATION			
Unit Number or ID	EMU 52		
Unit Operating Hours	175.45 hours		
Sampling Location	Fluidized Bed Incinerator Emissions Stack		
Manufacturer / Model No.	Land / 4500 Mark III	Serial No.	214324.52
Date of Certification	September 11, 2015	Date of last QA audit	June 28, 2016
MONITOR DATA AVAILABILITY			
Monitoring equipment malfunctions	.08 hours		
Non-monitoring equipment malfunctions			
Calibrations	2.75 hours		
Other known causes[1]			
Unknown causes			
Total COM downtime	2.83 hours		
Data Availability (calculated)	98.4%		

$$\%\ \text{Data Availability} = \left(\frac{\text{Unit Operating Time} - \text{Monitoring Downtime}}{\text{Unit Operating Time}}\right) * 100$$

where:
Unit operating time = total hours of source operation at any level during the calendar quarter; and
Monitoring downtime = total hours of source operation at any level during the calendar quarter where either no CEM equipment data was collected or the CEM equipment data was invalid. Such periods include, but are not limited to, quality assurance activities such as calibration, preventative maintenance, and calibration drift exceedances or quality assurance audits that result in invalid data. [R.C.S.A. 22a-174-4(c)(5)]

1 - other known causes includes all quality assurance activities other than calibrations (e.g., preventative maintenance, quarterly audits) and out-of-controls periods.

PART 4 - SECTION 4 COMS EMISSION SUMMARY REPORT

Facility Name:	Borough of Naugatuck POTW

UNIT INFORMATION

Unit Number or ID	EMU 52	Unit Operating Hours (a)	175.45

QUESTION 1 Did the period of exception from the visible emissions standards of 22a-174-18(b)(2) exceed 0.5% of the total operating hours during the calendar quarter?	☐ Yes xNo
QUESTION 2 Were there any visible emissions in excess of 60% opacity (six-minute block average) during the calendar quarter?	☐ Yes xNo
QUESTION 3 Were there any periods of visible emissions in excess of the visible emission standards of 22a-174-18(b)(2) not listed in the excepted activities in 22a-174-18(j)?	☐ Yes xNo

OPACITY EXCESS EMISSIONS SUMMARY

Emission Limit / Averaging Period	(1) 20% / six-minute average	(2) 40% / one-minute average
Startup / Shutdown		
Malfunction: Control Equipment		
Malfunction: Operational / Process		
Commissioner-approved stack testing		
Intentional soot blowing		
Fuel Switching		
Sudden load change		
Other known causes		
Unknown causes		
Total duration of excess emissions		

Total unit operating minutes during the operating period. (a)	Total duration of excess emissions in minutes for both limits combined. (b) = ∑(1) + ∑(2)	Total number of overlapped minutes for both limits. (c)	Adjusted total of excess emissions in minutes for both limits combined. (d) = (b) - (c)	Total duration of excess emissions as a percentage of operating time. (e) = (100*d)/(a)
124800	0	0	0	0

Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:40
PERIOD: 04/01/2016 - 06/30/2016

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
04/01/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/02/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/03/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/04/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/05/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/06/2016	00:00	09:33	574	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/06/2016	09:34	23:59	866	13	PROCESS DOWN	N/A
04/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
04/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/22/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/23/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/24/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/24/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/25/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/25/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/26/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	06:00	07:12	73	13	PROCESS DOWN	N/A
04/26/2016	07:13	07:16	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	07:17	08:24	68	13	PROCESS DOWN	N/A
04/26/2016	08:25	08:29	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	08:30	23:59	930	13	PROCESS DOWN	N/A
04/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/30/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/30/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/02/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/03/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/03/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/04/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/04/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/05/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/05/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/06/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/06/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
05/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/22/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/23/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/24/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/24/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/25/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/25/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/26/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/26/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/30/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
05/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/30/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/31/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/31/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/31/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/02/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/03/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/03/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/04/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/04/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/05/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/05/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/06/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/06/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
06/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/22/2016	06:00	15:07	548	13	PROCESS DOWN	N/A
06/22/2016	16:08	16:45	38	13	PROCESS DOWN	N/A
06/22/2016	17:01	19:15	135	13	PROCESS DOWN	N/A
06/22/2016	19:46	23:59	254	13	PROCESS DOWN	N/A
06/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/23/2016	06:00	07:24	85	13	PROCESS DOWN	N/A
06/23/2016	07:39	07:41	3	13	PROCESS DOWN	N/A
06/23/2016	07:51	08:00	10	13	PROCESS DOWN	N/A
06/23/2016	09:31	13:45	255	13	PROCESS DOWN	N/A
06/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/26/2016	04:07	05:54	108	13	PROCESS DOWN	N/A
06/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/26/2016	06:00	17:15	676	13	PROCESS DOWN	N/A
06/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	11:32	11:32	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
06/28/2016	11:33	13:32	120	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	13:33	13:36	4	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
06/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

1 no
5 in recorder

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
13	1878.98	93.12	PROCESS DOWN
16	0.08	0.00	PRIMARY MONITOR MALFUNCTION
18	129.57	6.42	DATA HANDLING SYSTEM MALFUNCTION
20	9.23	0.46	CORRECTIVE MAINTENANCE

TOTAL HOURS: 2017.87

2.75 hrs corr. maint.
.08
2.83

91 days Q2 2016 → 2184
− 1878.98 (process down)
305.02
− 129.57 (data handling malfunct)
175.45

$$\frac{175.45 - 2.83}{175.45} \times 100 = 98.4\%$$

OPACITY AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:39
PERIOD: 04/01/2016 - 06/30/2016

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
04/01/2016	0.00	0.00	24.00
04/02/2016	0.00	0.00	24.00
04/03/2016	0.00	0.00	24.00
04/04/2016	0.00	0.00	24.00
04/05/2016	0.00	0.00	24.00
04/06/2016	0.00	0.00	9.55
04/07/2016	0.00	OFF	0.00
04/08/2016	0.00	OFF	0.00
04/09/2016	0.00	OFF	0.00
04/10/2016	0.00	OFF	0.00
04/11/2016	0.00	OFF	0.00
04/12/2016	0.00	OFF	0.00
04/13/2016	0.00	OFF	0.00
04/14/2016	0.00	OFF	0.00
04/15/2016	0.00	OFF	0.00
04/16/2016	0.00	OFF	0.00
04/17/2016	0.00	OFF	0.00
04/18/2016	0.00	OFF	0.00
04/19/2016	0.00	OFF	0.00
04/20/2016	0.00	OFF	0.00
04/21/2016	0.00	OFF	0.00
04/22/2016	0.00	OFF	0.00
04/23/2016	0.00	OFF	0.00
04/24/2016	0.00	OFF	0.00
04/25/2016	0.00	OFF	0.00
04/26/2016	0.00	OFF	0.00
04/27/2016	0.00	OFF	0.00
04/28/2016	0.00	OFF	0.00
04/29/2016	0.00	OFF	0.00
04/30/2016	0.00	OFF	0.00
05/01/2016	0.00	OFF	0.00
05/02/2016	0.00	OFF	0.00
05/03/2016	0.00	OFF	0.00
05/04/2016	0.00	OFF	0.00
05/05/2016	0.00	OFF	0.00
05/06/2016	0.00	OFF	0.00
05/07/2016	0.00	OFF	0.00
05/08/2016	0.00	OFF	0.00
05/09/2016	0.00	OFF	0.00
05/10/2016	0.00	OFF	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
05/11/2016	0.00	OFF	0.00
05/12/2016	0.00	OFF	0.00
05/13/2016	0.00	OFF	0.00
05/14/2016	0.00	OFF	0.00
05/15/2016	0.00	OFF	0.00
05/16/2016	0.00	OFF	0.00
05/17/2016	0.00	OFF	0.00
05/18/2016	0.00	OFF	0.00
05/19/2016	0.00	OFF	0.00
05/20/2016	0.00	OFF	0.00
05/21/2016	0.00	OFF	0.00
05/22/2016	0.00	OFF	0.00
05/23/2016	0.00	OFF	0.00
05/24/2016	0.00	OFF	0.00
05/25/2016	0.00	OFF	0.00
05/26/2016	0.00	OFF	0.00
05/27/2016	0.00	OFF	0.00
05/28/2016	0.00	OFF	0.00
05/29/2016	0.00	OFF	0.00
05/30/2016	0.00	OFF	0.00
05/31/2016	0.00	OFF	0.00
06/01/2016	0.00	OFF	0.00
06/02/2016	0.00	OFF	0.00
06/03/2016	0.00	OFF	0.00
06/04/2016	0.00	OFF	0.00
06/05/2016	0.00	OFF	0.00
06/06/2016	0.00	OFF	0.00
06/07/2016	0.00	OFF	0.00
06/08/2016	0.00	OFF	0.00
06/09/2016	0.00	OFF	0.00
06/10/2016	0.00	OFF	0.00
06/11/2016	0.00	OFF	0.00
06/12/2016	0.00	OFF	0.00
06/13/2016	0.00	OFF	0.00
06/14/2016	0.00	OFF	0.00
06/15/2016	0.00	OFF	0.00
06/16/2016	0.00	OFF	0.00
06/17/2016	0.00	OFF	0.00
06/18/2016	0.00	OFF	0.00
06/19/2016	0.00	OFF	0.00
06/20/2016	0.00	OFF	0.00
06/21/2016	0.00	OFF	0.00
06/22/2016	1.75	0.00	0.00
06/23/2016	12.12	0.03	0.00
06/24/2016	24.00	0.00	0.00
06/25/2016	24.00	0.00	0.00
06/26/2016	10.85	0.00	0.00
06/27/2016	24.00	0.00	0.00
06/28/2016	24.00	0.00	0.00

– Incinerator restarted JB 7-20-16

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
06/29/2016	24.00	0.00	0.00
06/30/2016	24.00	0.00	0.00

	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
TOTAL	168.72		129.55
AVAILABILITY		96.52	

CO @7% AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/08/2016 @ 07:49
PERIOD: 04/01/2016 - 06/30/2016

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
04/01/2016	0.00	DAS/PLC	24.00
04/02/2016	0.00	DAS/PLC	24.00
04/03/2016	0.00	DAS/PLC	24.00
04/04/2016	0.00	DAS/PLC	24.00
04/05/2016	0.00	DAS/PLC	24.00
04/06/2016	0.00	OFF	9.55
04/07/2016	0.00	OFF	0.00
04/08/2016	0.00	OFF	0.00
04/09/2016	0.00	OFF	0.00
04/10/2016	0.00	OFF	0.00
04/11/2016	0.00	OFF	0.00
04/12/2016	0.00	OFF	0.00
04/13/2016	0.00	OFF	0.00
04/14/2016	0.00	OFF	0.00
04/15/2016	0.00	OFF	0.00
04/16/2016	0.00	OFF	0.00
04/17/2016	0.00	OFF	0.00
04/18/2016	0.00	OFF	0.00
04/19/2016	0.00	OFF	0.00
04/20/2016	0.00	OFF	0.00
04/21/2016	0.00	OFF	0.00
04/22/2016	0.00	OFF	0.00
04/23/2016	0.00	OFF	0.00
04/24/2016	0.00	OFF	0.00
04/25/2016	0.00	OFF	0.00
04/26/2016	0.00	OFF	0.00
04/27/2016	0.00	OFF	0.00
04/28/2016	0.00	OFF	0.00
04/29/2016	0.00	OFF	0.00
04/30/2016	0.00	OFF	0.00
05/01/2016	0.00	OFF	0.00
05/02/2016	0.00	OFF	0.00
05/03/2016	0.00	OFF	0.00
05/04/2016	0.00	OFF	0.00
05/05/2016	0.00	OFF	0.00
05/06/2016	0.00	OFF	0.00
05/07/2016	0.00	OFF	0.00
05/08/2016	0.00	OFF	0.00
05/09/2016	0.00	OFF	0.00
05/10/2016	0.00	OFF	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
05/11/2016	0.00	OFF	0.00
05/12/2016	0.00	OFF	0.00
05/13/2016	0.00	OFF	0.00
05/14/2016	0.00	OFF	0.00
05/15/2016	0.00	OFF	0.00
05/16/2016	0.00	OFF	0.00
05/17/2016	0.00	OFF	0.00
05/18/2016	0.00	OFF	0.00
05/19/2016	0.00	OFF	0.00
05/20/2016	0.00	OFF	0.00
05/21/2016	0.00	OFF	0.00
05/22/2016	0.00	OFF	0.00
05/23/2016	0.00	OFF	0.00
05/24/2016	0.00	OFF	0.00
05/25/2016	0.00	OFF	0.00
05/26/2016	0.00	OFF	0.00
05/27/2016	0.00	OFF	0.00
05/28/2016	0.00	OFF	0.00
05/29/2016	0.00	OFF	0.00
05/30/2016	0.00	OFF	0.00
05/31/2016	0.00	OFF	0.00
06/01/2016	0.00	OFF	0.00
06/02/2016	0.00	OFF	0.00
06/03/2016	0.00	OFF	0.00
06/04/2016	0.00	OFF	0.00
06/05/2016	0.00	OFF	0.00
06/06/2016	0.00	OFF	0.00
06/07/2016	0.00	OFF	0.00
06/08/2016	0.00	OFF	0.00
06/09/2016	0.00	OFF	0.00
06/10/2016	0.00	OFF	0.00
06/11/2016	0.00	OFF	0.00
06/12/2016	0.00	OFF	0.00
06/13/2016	0.00	OFF	0.00
06/14/2016	0.00	OFF	0.00
06/15/2016	0.00	OFF	0.00
06/16/2016	0.00	OFF	0.00
06/17/2016	0.00	OFF	0.00
06/18/2016	0.00	OFF	0.00
06/19/2016	0.00	OFF	0.00
06/20/2016	0.00	OFF	0.00
06/21/2016	0.00	OFF	0.00
06/22/2016	0.00	OFF	0.00
06/23/2016	12.12	23.5	0.00
06/24/2016	24.00	10.2	0.00
06/25/2016	24.00	6.9	0.00
06/26/2016	10.85	7.1	0.00
06/27/2016	24.00	6.6	0.00
06/28/2016	24.00	2.2	0.00

- incineration restarted JZ 7-20-16

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
06/29/2016	24.00	0.0	0.00
06/30/2016	24.00	0.0	0.00

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		7.1	
TOTAL	166.97		129.55
AVAILABILITY		97.61	

Part 5: Monitoring and Non-Monitoring Equipment Malfunctions

EMU# or Unit ID	Permit Cond. ID	Monitoring System Failure Period				Description and Cause of Monitoring System Failure	Corrective Actions Taken to Remedy Monitoring System Failure	Measures Taken to Prevent Future Monitoring System Failures
		Start		End				
		Date	Time	Date	Time			
52	III.E.21	4/01	00:00	4/01	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/02	00:00	4/02	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/03	00:00	4/03	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/04	00:00	4/04	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/05	00:00	4/05	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/06	9:24	4/06	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	6/28	11:32	6/28	11:32	Primary Monitor Malfunction	Corrective Maintenance	Manual Recalibration
52	III.E.21	6/28	13:33	6/28	13:36	Primary Monitor Malfunction	Corrective Maintenance	Manual Recalibration

Part 6: List of Excess Emissions

EMU# or Unit ID	Permit Cond. ID	Deviation Period				Description, Cause or Likely Cause of Deviation	Measured Value of Deviation	Description and Date(s) of Actions Taken to Correct Deviation	Description and Date(s) of Measures Taken to Prevent Future Deviations
		Start		End					
		Date	Time	Date	Time				
52	III.E.21					NONE TO REPORT			

COPY

VEOLIA

Sent via Certified R.R.R. mail 7014 1200 0002 2237 0322 on July 20, 2016

Connecticut Department of Environmental Protection
Bureau of Air Management
Compliance Analysis & Coordination Unit
79 Elm Street
Hartford, CT 06106-5127

July 20, 2016

Subject: Continuous Emission Monitoring Semi Annual Report, January 1, 2016 to June 30, 2016.

Dear Sir/Madam:

Enclosed please find copies of the above referenced report. There were no exceptions to the attached report. The incinerator was shutdown in January 2016 after a major malfunction, as is reflected in the data. It was shut down again in February 2016 after attempted repairs were unsuccessful. Major repairs immediately followed and the incinerator was restarted on June 21, 2016.

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

Sincerely,
Veolia Water North America – Northeast, LLC

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

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Air Management
Compliance Analysis & Coordination Unit
79 Elm Street
Hartford, Connecticut 06106-5127

Client #:
Sequence #:
Town #:
Premises #:
CADIS Tracking #:

CEM Forms Package, 08/19/96

CONTINUOUS EMISSION MONITORING SEMI-ANNUAL REPORT

GENERAL INFORMATION

Company name	Borough of Naugatuck
Facility name	Borough of Naugatuck POTW
Facility address	229 Church Street, Naugatuck, CT 06770
Contact person	Mr. John Batorski john.batorski@veolia.com
Contact phone number	(203) 723-1433
Reporting period dates	January 1, 2016 – June 30, 2016
Report submittal date	July 14, 2016
Were there any excess emissions this quarter?	No
Were there any CEM monitor system failures this period?	YES

EQUIPMENT INFORMATION

Applicable permit numbers	CT DEP Permit # 209-0059-TV
Applicable federal regulations	40 CFR Part 503, Subpart E
Type of fuel(s) combusted	No. 2 Fuel Oil
Brief description of equipment and pollution control devices	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.

SEMI-ANNUAL REPORT CERTIFICATION

39.20
I have personally examined and am familiar with the information submitted in this document and all attachments and certify (based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information) that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement(s) made in this document or its attachments may be punishable as a criminal offense.

Today's date: July 20, 2016
Signature (Company Officer): John Batorski
Print (or type) name and title: John Batorski, Plant Manager

Michael Unterweger, CK Environmental, Preparer

CONTINUOUS EMISSION MONITORING PERFORMANCE REPORT

Company name	Borough of Naugatuck
Reporting period	01/01/2016 – 06/30/2016
Unit number	EMU 52
Unit operating time	1547.18 Hours

MONITOR INFORMATION

Pollutant / Constituent	CO @ 7% O2
Sampling location	Stack
Manufacturer / Model number	Thermo Environmental Model 48i
Instrument range(s)	0-300 ppm
Date of last audit	June 28, 2016
Audit type (e.g., CGA, RATA, RAA)	RATA
Audit results (pass / fail)	Pass

CMS DOWNTIME

REASONS	TIME (hours, or minutes for opacity)
Monitoring equipment malfunctions	.30 hours
Non-monitoring equipment malfunctions	.23 hours
Calibrations	7.92 hours
Other known causes [1]	0
Unknown causes	0
TOTAL CMS DOWNTIME	8.45 hours

QUARTERLY DATA AVAILABILITY RESULTS

Quarterly Data Availability (% of operating hours)(see below)	99.45%

$$\text{Data Availability} = \frac{\text{Unit Operating Time - Total CMS Downtime}}{\text{Unit Operating Time}} \times 100$$

Where:

Unit Operating Hours = Total number of hours that the unit (or process) was operated at <u>any</u> level.

Total CMS Downtime = Total time during periods of operation (Unit Operating Time) in which <u>invalid</u> CEM data or <u>no</u> CEM data is collected due to any reason and results in the invalidation of a data block period.

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[1] - includes all Quality Assurance activities other than calibration (i.e., preventative maintenance, audits which result in periods of invalid data, etc.) and "out-of-control" periods.

CONNECTICUT DEP - Bureau of Air Management

CEM Forms Package, 08/19/96

CONTINUOUS EMISSION MONITORING PERFORMANCE REPORT	
Company name	Borough of Naugatuck
Reporting period	01/01/2016 – 06/30/2016
Unit number	EMU 52
Unit operating time	1547.18 hours

MONITOR INFORMATION	
Pollutant / Constituent	Opacity
Sampling location	Stack
Manufacturer / Model number	Land / 4500 Mark III
Instrument range(s)	0-100 ppm
Date of last audit	June 28, 2016
Audit type (e.g., CGA, RATA, RAA)	RATA
Audit results (pass / fail)	Pass

CMS DOWNTIME	
REASONS	TIME (hours, or minutes for opacity)
Monitoring equipment malfunctions	.30 hours
Non-monitoring equipment malfunctions	.23 hours
Calibrations	7.92 hours
Other known causes [1]	0
Unknown causes	0
TOTAL CMS DOWNTIME	8.45 hours

QUARTERLY DATA AVAILABILITY RESULTS	
Quarterly Data Availability (% of operating hours)(see below)	99.45%

$$\text{Data Availability} = \frac{\text{Unit Operating Time - Total CMS Downtime}}{\text{Unit Operating Time}} \times 100$$

Where:

Unit Operating Hours = Total number of hours that the unit (or process) was operated at <u>any</u> level.

Total CMS Downtime = Total time during periods of operation (Unit Operating Time) in which <u>invalid</u> CEM data or <u>no</u> CEM data is collected due to any reason and results in the invalidation of a data block period.

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[1] - includes all Quality Assurance activities other than calibration (i.e., preventative maintenance, audits which result in periods of invalid data, etc.) and "out-of-control" periods.

CONNECTICUT DEP - Bureau of Air Management

CEM Forms Package, 08/19/96

SEMI-ANNUAL EXCESS EMISSION REPORT		
Company Name	Borough of Naugatuck	
Reporting period	01/01/2016 – 06/30/2016	
Unit number	EMU 52	
Unit operating time	1547.18 hours	
POLLUTANT / EMISSION LIMITS		
Pollutant / constituent monitored	CO @ 7% O2	
	Permit	**Federal**
Emission limit(s)	1.4 lbs/DT	
Averaging period(s): (indicate length of ave. period and whether period is a rolling or block ave.)		
CONVERSION FACTORS (if applicable)		
Diluent used for correction (O_2 / CO_2)	Oxygen	
CEM measurement basis (wet / dry)	Dry	
Fuel factor(s) / types (F_d / F_c / F_w)		
Conversion equation(s)	CO @ 7% O2 = ((20.9-7)/(20.9-OXYGEN))*CO ppm	
EXCESS EMISSIONS DATA SUMMARY		
Reason for excess emissions	Duration (in minutes for opacity, in hours for other pollutants)	
	List exceedances of DEP permit or Regulations	List violations of Federal standards
Start-up / shut down	0 (gas) + 0 (oil)	
Control equipment malfunction	0 (gas) + 0 (oil)	
Process malfunction	0 (gas) + 0 (oil)	
Other known causes	0 (gas) + 0 (oil)	
Unknown causes	0 (gas) + 0 (oil)	
Total duration of excess emissions (hours or minutes)	0 (gas) + 0 (oil)	
Total duration (as % of total unit operating time)		

CONNECTICUT DEP - Bureau of Air Management

CEM Forms Package, 08/19/96

SEMI-ANNUAL EXCESS EMISSION REPORT	
Company Name	Borough of Naugatuck
Reporting period	01/01/2016 – 06/30/2016
Unit number	EMU 52
Unit operating time	1547.18 hours

POLLUTANT / EMISSION LIMITS			
Pollutant / constituent monitored	OPACITY		
	Permit		Federal (if applicable)
Emission limit(s)	20%	40%	
Averaging period(s):	6 minute block	instantaneous	

EXCESS EMISSIONS DATA SUMMARY			
Reason for excess emissions	Duration (in minutes for opacity)		
	List exceedances of DEP permit or Regulations		List violations of Federal standards
Start-up / shut down	0	ONLY THE TOTALS (see below) ARE REQUIRED FOR THE 40% OPACITY READINGS	0
Control equipment malfunction	0		0
Process malfunction	0		0
Other known causes	0		0
Unknown causes	0		0
Fuel problems	0		0
Cleaning, Soot-blowing	0		0
Total duration of excess emissions (hours or minutes)	0		0
Total duration (as % of total unit operating time)	.0		0

NOTIFICATION OF EXCEEDANCE

Source Name	Borough of Naugatuck
Date of Exceedence	No Exceedences
Pollutant / Constituent	
Unit No.	EMU 52

EXCEEDANCE DATA

Time of exceedance	Averaging period	Exceedance magnitude	Permit limit (with units)	Other applicable data

EXPLANATION OF EXCURSION(S)

Cause of excursions	Corrective action(s)	Preventative measure(s)

REPORT CERTIFICATION

DEP Contact Name	
Today's Date	
Signature (Company Officer)	
Title	

CONNECTICUT DEP - Bureau of Air Management

CEM Forms Package, 08/19/96

NOTIFICATION OF EXCEEDANCE

Source Name	Borough of Naugatuck
Date of Exceedence	No Exceedences
Pollutant / Constituent	
Unit No.	EMU 52.

EXCEEDANCE DATA

Time of exceedance	Averaging period	Exceedance magnitude	Permit limit (with units)	Other applicable data

EXPLANATION OF EXCURSION(S)

Cause of excursions	Corrective action(s)	Preventative measure(s)

REPORT CERTIFICATION

DEP Contact Name	
Today's Date	
Signature (Company Officer)	
Title	

Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:49
PERIOD: 01/01/2016 - 06/30/2016

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
01/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/04/2016	08:00	12:44	285	13	PROCESS DOWN	N/A
01/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/07/2016	09:12	09:13	2	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
01/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/10/2016	09:55	09:58	4	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
01/10/2016	13:02	13:02	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
01/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/11/2016	09:14	11:58	165	13	PROCESS DOWN	N/A
01/12/2016	04:41	04:41	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
01/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/17/2016	09:20	10:34	75	13	PROCESS DOWN	N/A
01/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/21/2016	14:21	14:25	5	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
01/21/2016	14:26	15:55	90	13	PROCESS DOWN	N/A
01/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/22/2016	22:05	22:19	15	13	PROCESS DOWN	N/A
01/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/25/2016	07:37	10:13	157	13	PROCESS DOWN	N/A
01/25/2016	10:44	11:28	45	13	PROCESS DOWN	N/A
01/26/2016	05:13	05:54	42	13	PROCESS DOWN	N/A
01/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/26/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
01/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
01/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
01/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
01/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
01/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
01/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
01/30/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
01/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/30/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
01/31/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
01/31/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
01/31/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/02/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/03/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/03/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/04/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/04/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/05/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/05/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/06/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/06/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/09/2016	06:00	06:20	21	13	PROCESS DOWN	N/A
02/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/10/2016	10:46	10:47	2	13	PROCESS DOWN	N/A
02/10/2016	12:27	12:38	12	13	PROCESS DOWN	N/A
02/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/11/2016	09:49	23:59	851	13	PROCESS DOWN	N/A
02/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
02/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/22/2016	10:48	10:52	5	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
02/22/2016	10:53	23:59	787	13	PROCESS DOWN	N/A
02/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/23/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/24/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/24/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/25/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/25/2016	06:00	08:00	121	13	PROCESS DOWN	N/A
02/25/2016	10:52	11:51	60	13	PROCESS DOWN	N/A
02/25/2016	16:20	23:59	460	13	PROCESS DOWN	N/A
02/26/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/26/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
02/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
02/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
02/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
03/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
03/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
03/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
03/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
03/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
03/02/2016	09:35	09:43	9	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
03/03/2016	NO	INCIDENT	OCCURRED			
03/04/2016	NO	INCIDENT	OCCURRED			
03/05/2016	NO	INCIDENT	OCCURRED		CEM system off line as incinerator was	
03/06/2016	NO	INCIDENT	OCCURRED		not operating	
03/07/2016	NO	INCIDENT	OCCURRED			
03/08/2016	NO	INCIDENT	OCCURRED			
03/09/2016	NO	INCIDENT	OCCURRED			
03/10/2016	NO	INCIDENT	OCCURRED			
03/11/2016	NO	INCIDENT	OCCURRED			
03/12/2016	NO	INCIDENT	OCCURRED			
03/13/2016	NO	INCIDENT	OCCURRED			
03/14/2016	NO	INCIDENT	OCCURRED			
03/15/2016	NO	INCIDENT	OCCURRED			
03/16/2016	NO	INCIDENT	OCCURRED			
03/17/2016	NO	INCIDENT	OCCURRED			
03/18/2016	NO	INCIDENT	OCCURRED			
03/19/2016	NO	INCIDENT	OCCURRED			
03/20/2016	NO	INCIDENT	OCCURRED			
03/21/2016	NO	INCIDENT	OCCURRED			
03/22/2016	NO	INCIDENT	OCCURRED			
03/23/2016	NO	INCIDENT	OCCURRED			
03/24/2016	NO	INCIDENT	OCCURRED		CEM system turned	back on – incinerator
03/25/2016	NO	INCIDENT	OCCURRED		still off line	
03/26/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
03/27/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
03/28/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
03/29/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
03/30/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
03/31/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/01/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/02/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/03/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/04/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/05/2016	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/06/2016	00:00	09:33	574	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
04/06/2016	09:34	23:59	866	13	PROCESS DOWN	N/A
04/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/22/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/23/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/24/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
04/24/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/25/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/25/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/26/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	06:00	07:12	73	13	PROCESS DOWN	N/A
04/26/2016	07:13	07:16	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	07:17	08:24	68	13	PROCESS DOWN	N/A
04/26/2016	08:25	08:29	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/26/2016	08:30	23:59	930	13	PROCESS DOWN	N/A
04/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
04/30/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
04/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
04/30/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/02/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/03/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/03/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/04/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/04/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/05/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/05/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/06/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/06/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
05/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/22/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/23/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/24/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/24/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/25/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/25/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/26/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/26/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/27/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/27/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/28/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/28/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/29/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/29/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/30/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/30/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
05/31/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
05/31/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
05/31/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/01/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/01/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/01/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/02/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/02/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/02/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/03/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/03/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
06/03/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/04/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/04/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/04/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/05/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/05/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/05/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/06/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/06/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/06/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/07/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/07/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/07/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/08/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/08/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/08/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/09/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/09/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/09/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/10/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/10/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/10/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/11/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/11/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/11/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/12/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/12/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/12/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/13/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/13/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/13/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/14/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/14/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/14/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/15/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/15/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/15/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/16/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/16/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/16/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/17/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/17/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/17/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/18/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/18/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/18/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/19/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/19/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/19/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/20/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/20/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/20/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/21/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/21/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/21/2016	06:00	23:59	1080	13	PROCESS DOWN	N/A
06/22/2016	00:00	05:54	355	13	PROCESS DOWN	N/A
06/22/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/22/2016	06:00	15:07	548	13	PROCESS DOWN	N/A
06/22/2016	16:08	16:45	38	13	PROCESS DOWN	N/A
06/22/2016	17:01	19:15	135	13	PROCESS DOWN	N/A
06/22/2016	19:46	23:59	254	13	PROCESS DOWN	N/A
06/23/2016	00:00	05:54	355	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
06/23/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/23/2016	06:00	07:24	85	13	PROCESS DOWN	N/A
06/23/2016	07:39	07:41	3	13	PROCESS DOWN	N/A
06/23/2016	07:51	08:00	10	13	PROCESS DOWN	N/A
06/23/2016	09:31	13:45	255	13	PROCESS DOWN	N/A
06/24/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/25/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/26/2016	04:07	05:54	108	13	PROCESS DOWN	N/A
06/26/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/26/2016	06:00	17:15	676	13	PROCESS DOWN	N/A
06/27/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	11:32	11:32	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
06/28/2016	11:33	13:32	120	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/28/2016	13:33	13:36	4	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
06/29/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
06/30/2016	05:55	05:59	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
13	2691.28	90.32	PROCESS DOWN
16	0.30	0.01	PRIMARY MONITOR MALFUNCTION
18	273.80	9.19	DATA HANDLING SYSTEM MALFUNCTION
20	14.40	0.48	CORRECTIVE MAINTENANCE

TOTAL HOURS: 2979.78

182 days = 4,368 hrs.

2,691.25 (process down)

1,676.75

− 129.57 (from Q2)

1,547.18

$$\frac{1547.18 - 8.45}{1547.18} \times 100 = 99.45$$

Continuous Opacty Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:43
PERIOD: 01/01/2016 - 06/30/2016

INCIDENT: HI 1-HR OPACITY (%)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
01/01/2016	NO	INCIDENT	OCCURRED							
01/02/2016	NO	INCIDENT	OCCURRED							
01/03/2016	NO	INCIDENT	OCCURRED							
01/04/2016	NO	INCIDENT	OCCURRED							
01/05/2016	NO	INCIDENT	OCCURRED							
01/06/2016	NO	INCIDENT	OCCURRED							
01/07/2016	NO	INCIDENT	OCCURRED							
01/08/2016	NO	INCIDENT	OCCURRED							
01/09/2016	NO	INCIDENT	OCCURRED							
01/10/2016	NO	INCIDENT	OCCURRED							
01/11/2016	NO	INCIDENT	OCCURRED							
01/12/2016	NO	INCIDENT	OCCURRED							
01/13/2016	NO	INCIDENT	OCCURRED							
01/14/2016	NO	INCIDENT	OCCURRED							
01/15/2016	NO	INCIDENT	OCCURRED							
01/16/2016	NO	INCIDENT	OCCURRED							
01/17/2016	NO	INCIDENT	OCCURRED							
01/18/2016	NO	INCIDENT	OCCURRED							
01/19/2016	NO	INCIDENT	OCCURRED							
01/20/2016	NO	INCIDENT	OCCURRED							
01/21/2016	NO	INCIDENT	OCCURRED							
01/22/2016	NO	INCIDENT	OCCURRED							
01/23/2016	NO	INCIDENT	OCCURRED							
01/24/2016	NO	INCIDENT	OCCURRED							
01/25/2016	NO	INCIDENT	OCCURRED							
01/26/2016	NO	INCIDENT	OCCURRED							
01/27/2016	NO	INCIDENT	OCCURRED							
01/28/2016	NO	INCIDENT	OCCURRED							
01/29/2016	NO	INCIDENT	OCCURRED							
01/30/2016	NO	INCIDENT	OCCURRED							
01/31/2016	NO	INCIDENT	OCCURRED							
02/01/2016	NO	INCIDENT	OCCURRED							
02/02/2016	NO	INCIDENT	OCCURRED							
02/03/2016	NO	INCIDENT	OCCURRED							
02/04/2016	NO	INCIDENT	OCCURRED							
02/05/2016	NO	INCIDENT	OCCURRED							
02/06/2016	NO	INCIDENT	OCCURRED							
02/07/2016	NO	INCIDENT	OCCURRED							
02/08/2016	NO	INCIDENT	OCCURRED							
02/09/2016	NO	INCIDENT	OCCURRED							
02/10/2016	NO	INCIDENT	OCCURRED							
02/11/2016	NO	INCIDENT	OCCURRED							
02/12/2016	NO	INCIDENT	OCCURRED							
02/13/2016	NO	INCIDENT	OCCURRED							
02/14/2016	NO	INCIDENT	OCCURRED							
02/15/2016	NO	INCIDENT	OCCURRED							
02/16/2016	NO	INCIDENT	OCCURRED							
02/17/2016	NO	INCIDENT	OCCURRED							
02/18/2016	NO	INCIDENT	OCCURRED							
02/19/2016	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
02/20/2016	NO	INCIDENT	OCCURRED							
02/21/2016	NO	INCIDENT	OCCURRED							
02/22/2016	NO	INCIDENT	OCCURRED							
02/23/2016	NO	INCIDENT	OCCURRED							
02/24/2016	NO	INCIDENT	OCCURRED							
02/25/2016	NO	INCIDENT	OCCURRED							
02/26/2016	NO	INCIDENT	OCCURRED							
02/27/2016	NO	INCIDENT	OCCURRED							
02/28/2016	NO	INCIDENT	OCCURRED							
02/29/2016	NO	INCIDENT	OCCURRED							
03/01/2016	NO	INCIDENT	OCCURRED							
03/02/2016	NO	INCIDENT	OCCURRED							
03/03/2016	NO	INCIDENT	OCCURRED							
03/04/2016	NO	INCIDENT	OCCURRED							
03/05/2016	NO	INCIDENT	OCCURRED							
03/06/2016	NO	INCIDENT	OCCURRED							
03/07/2016	NO	INCIDENT	OCCURRED							
03/08/2016	NO	INCIDENT	OCCURRED							
03/09/2016	NO	INCIDENT	OCCURRED							
03/10/2016	NO	INCIDENT	OCCURRED							
03/11/2016	NO	INCIDENT	OCCURRED							
03/12/2016	NO	INCIDENT	OCCURRED							
03/13/2016	NO	INCIDENT	OCCURRED							
03/14/2016	NO	INCIDENT	OCCURRED							
03/15/2016	NO	INCIDENT	OCCURRED							
03/16/2016	NO	INCIDENT	OCCURRED							
03/17/2016	NO	INCIDENT	OCCURRED							
03/18/2016	NO	INCIDENT	OCCURRED							
03/19/2016	NO	INCIDENT	OCCURRED							
03/20/2016	NO	INCIDENT	OCCURRED							
03/21/2016	NO	INCIDENT	OCCURRED							
03/22/2016	NO	INCIDENT	OCCURRED							
03/23/2016	NO	INCIDENT	OCCURRED							
03/24/2016	NO	INCIDENT	OCCURRED							
03/25/2016	NO	INCIDENT	OCCURRED							
03/26/2016	NO	INCIDENT	OCCURRED							
03/27/2016	NO	INCIDENT	OCCURRED							
03/28/2016	NO	INCIDENT	OCCURRED							
03/29/2016	NO	INCIDENT	OCCURRED							
03/30/2016	NO	INCIDENT	OCCURRED							
03/31/2016	NO	INCIDENT	OCCURRED							
04/01/2016	NO	INCIDENT	OCCURRED							
04/02/2016	NO	INCIDENT	OCCURRED							
04/03/2016	NO	INCIDENT	OCCURRED							
04/04/2016	NO	INCIDENT	OCCURRED							
04/05/2016	NO	INCIDENT	OCCURRED							
04/06/2016	NO	INCIDENT	OCCURRED							
04/07/2016	NO	INCIDENT	OCCURRED							
04/08/2016	NO	INCIDENT	OCCURRED							
04/09/2016	NO	INCIDENT	OCCURRED							
04/10/2016	NO	INCIDENT	OCCURRED							
04/11/2016	NO	INCIDENT	OCCURRED							
04/12/2016	NO	INCIDENT	OCCURRED							
04/13/2016	NO	INCIDENT	OCCURRED							
04/14/2016	NO	INCIDENT	OCCURRED							
04/15/2016	NO	INCIDENT	OCCURRED							
04/16/2016	NO	INCIDENT	OCCURRED							
04/17/2016	NO	INCIDENT	OCCURRED							
04/18/2016	NO	INCIDENT	OCCURRED							
04/19/2016	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
04/20/2016	NO	INCIDENT	OCCURRED							
04/21/2016	NO	INCIDENT	OCCURRED							
04/22/2016	NO	INCIDENT	OCCURRED							
04/23/2016	NO	INCIDENT	OCCURRED							
04/24/2016	NO	INCIDENT	OCCURRED							
04/25/2016	NO	INCIDENT	OCCURRED							
04/26/2016	NO	INCIDENT	OCCURRED							
04/27/2016	NO	INCIDENT	OCCURRED							
04/28/2016	NO	INCIDENT	OCCURRED							
04/29/2016	NO	INCIDENT	OCCURRED							
04/30/2016	NO	INCIDENT	OCCURRED							
05/01/2016	NO	INCIDENT	OCCURRED							
05/02/2016	NO	INCIDENT	OCCURRED							
05/03/2016	NO	INCIDENT	OCCURRED							
05/04/2016	NO	INCIDENT	OCCURRED							
05/05/2016	NO	INCIDENT	OCCURRED							
05/06/2016	NO	INCIDENT	OCCURRED							
05/07/2016	NO	INCIDENT	OCCURRED							
05/08/2016	NO	INCIDENT	OCCURRED							
05/09/2016	NO	INCIDENT	OCCURRED							
05/10/2016	NO	INCIDENT	OCCURRED							
05/11/2016	NO	INCIDENT	OCCURRED							
05/12/2016	NO	INCIDENT	OCCURRED							
05/13/2016	NO	INCIDENT	OCCURRED							
05/14/2016	NO	INCIDENT	OCCURRED							
05/15/2016	NO	INCIDENT	OCCURRED							
05/16/2016	NO	INCIDENT	OCCURRED							
05/17/2016	NO	INCIDENT	OCCURRED							
05/18/2016	NO	INCIDENT	OCCURRED							
05/19/2016	NO	INCIDENT	OCCURRED							
05/20/2016	NO	INCIDENT	OCCURRED							
05/21/2016	NO	INCIDENT	OCCURRED							
05/22/2016	NO	INCIDENT	OCCURRED							
05/23/2016	NO	INCIDENT	OCCURRED							
05/24/2016	NO	INCIDENT	OCCURRED							
05/25/2016	NO	INCIDENT	OCCURRED							
05/26/2016	NO	INCIDENT	OCCURRED							
05/27/2016	NO	INCIDENT	OCCURRED							
05/28/2016	NO	INCIDENT	OCCURRED							
05/29/2016	NO	INCIDENT	OCCURRED							
05/30/2016	NO	INCIDENT	OCCURRED							
05/31/2016	NO	INCIDENT	OCCURRED							
06/01/2016	NO	INCIDENT	OCCURRED							
06/02/2016	NO	INCIDENT	OCCURRED							
06/03/2016	NO	INCIDENT	OCCURRED							
06/04/2016	NO	INCIDENT	OCCURRED							
06/05/2016	NO	INCIDENT	OCCURRED							
06/06/2016	NO	INCIDENT	OCCURRED							
06/07/2016	NO	INCIDENT	OCCURRED							
06/08/2016	NO	INCIDENT	OCCURRED							
06/09/2016	NO	INCIDENT	OCCURRED							
06/10/2016	NO	INCIDENT	OCCURRED							
06/11/2016	NO	INCIDENT	OCCURRED							
06/12/2016	NO	INCIDENT	OCCURRED							
06/13/2016	NO	INCIDENT	OCCURRED							
06/14/2016	NO	INCIDENT	OCCURRED							
06/15/2016	NO	INCIDENT	OCCURRED							
06/16/2016	NO	INCIDENT	OCCURRED							
06/17/2016	NO	INCIDENT	OCCURRED							
06/18/2016	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
06/19/2016	NO	INCIDENT	OCCURRED							
06/20/2016	NO	INCIDENT	OCCURRED							
06/21/2016	NO	INCIDENT	OCCURRED							
06/22/2016	NO	INCIDENT	OCCURRED							
06/23/2016	NO	INCIDENT	OCCURRED							
06/24/2016	NO	INCIDENT	OCCURRED							
06/25/2016	NO	INCIDENT	OCCURRED							
06/26/2016	NO	INCIDENT	OCCURRED							
06/27/2016	NO	INCIDENT	OCCURRED							
06/28/2016	NO	INCIDENT	OCCURRED							
06/29/2016	NO	INCIDENT	OCCURRED							
06/30/2016	NO	INCIDENT	OCCURRED							

Continuous Opacty Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:42
PERIOD: 04/01/2016 - 06/30/2016

INCIDENT: HI 1-HR OPACITY (%)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
04/01/2016	NO	INCIDENT	OCCURRED							
04/02/2016	NO	INCIDENT	OCCURRED							
04/03/2016	NO	INCIDENT	OCCURRED							
04/04/2016	NO	INCIDENT	OCCURRED							
04/05/2016	NO	INCIDENT	OCCURRED							
04/06/2016	NO	INCIDENT	OCCURRED							
04/07/2016	NO	INCIDENT	OCCURRED							
04/08/2016	NO	INCIDENT	OCCURRED							
04/09/2016	NO	INCIDENT	OCCURRED							
04/10/2016	NO	INCIDENT	OCCURRED							
04/11/2016	NO	INCIDENT	OCCURRED							
04/12/2016	NO	INCIDENT	OCCURRED							
04/13/2016	NO	INCIDENT	OCCURRED							
04/14/2016	NO	INCIDENT	OCCURRED							
04/15/2016	NO	INCIDENT	OCCURRED							
04/16/2016	NO	INCIDENT	OCCURRED							
04/17/2016	NO	INCIDENT	OCCURRED							
04/18/2016	NO	INCIDENT	OCCURRED							
04/19/2016	NO	INCIDENT	OCCURRED							
04/20/2016	NO	INCIDENT	OCCURRED							
04/21/2016	NO	INCIDENT	OCCURRED							
04/22/2016	NO	INCIDENT	OCCURRED							
04/23/2016	NO	INCIDENT	OCCURRED							
04/24/2016	NO	INCIDENT	OCCURRED							
04/25/2016	NO	INCIDENT	OCCURRED							
04/26/2016	NO	INCIDENT	OCCURRED							
04/27/2016	NO	INCIDENT	OCCURRED							
04/28/2016	NO	INCIDENT	OCCURRED							
04/29/2016	NO	INCIDENT	OCCURRED							
04/30/2016	NO	INCIDENT	OCCURRED							
05/01/2016	NO	INCIDENT	OCCURRED							
05/02/2016	NO	INCIDENT	OCCURRED							
05/03/2016	NO	INCIDENT	OCCURRED							
05/04/2016	NO	INCIDENT	OCCURRED							
05/05/2016	NO	INCIDENT	OCCURRED							
05/06/2016	NO	INCIDENT	OCCURRED							
05/07/2016	NO	INCIDENT	OCCURRED							
05/08/2016	NO	INCIDENT	OCCURRED							
05/09/2016	NO	INCIDENT	OCCURRED							
05/10/2016	NO	INCIDENT	OCCURRED							
05/11/2016	NO	INCIDENT	OCCURRED							
05/12/2016	NO	INCIDENT	OCCURRED							
05/13/2016	NO	INCIDENT	OCCURRED							
05/14/2016	NO	INCIDENT	OCCURRED							
05/15/2016	NO	INCIDENT	OCCURRED							
05/16/2016	NO	INCIDENT	OCCURRED							
05/17/2016	NO	INCIDENT	OCCURRED							
05/18/2016	NO	INCIDENT	OCCURRED							
05/19/2016	NO	INCIDENT	OCCURRED							
05/20/2016	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
05/21/2016	NO	INCIDENT	OCCURRED							
05/22/2016	NO	INCIDENT	OCCURRED							
05/23/2016	NO	INCIDENT	OCCURRED							
05/24/2016	NO	INCIDENT	OCCURRED							
05/25/2016	NO	INCIDENT	OCCURRED							
05/26/2016	NO	INCIDENT	OCCURRED							
05/27/2016	NO	INCIDENT	OCCURRED							
05/28/2016	NO	INCIDENT	OCCURRED							
05/29/2016	NO	INCIDENT	OCCURRED							
05/30/2016	NO	INCIDENT	OCCURRED							
05/31/2016	NO	INCIDENT	OCCURRED							
06/01/2016	NO	INCIDENT	OCCURRED							
06/02/2016	NO	INCIDENT	OCCURRED							
06/03/2016	NO	INCIDENT	OCCURRED							
06/04/2016	NO	INCIDENT	OCCURRED							
06/05/2016	NO	INCIDENT	OCCURRED							
06/06/2016	NO	INCIDENT	OCCURRED							
06/07/2016	NO	INCIDENT	OCCURRED							
06/08/2016	NO	INCIDENT	OCCURRED							
06/09/2016	NO	INCIDENT	OCCURRED							
06/10/2016	NO	INCIDENT	OCCURRED							
06/11/2016	NO	INCIDENT	OCCURRED							
06/12/2016	NO	INCIDENT	OCCURRED							
06/13/2016	NO	INCIDENT	OCCURRED							
06/14/2016	NO	INCIDENT	OCCURRED							
06/15/2016	NO	INCIDENT	OCCURRED							
06/16/2016	NO	INCIDENT	OCCURRED							
06/17/2016	NO	INCIDENT	OCCURRED							
06/18/2016	NO	INCIDENT	OCCURRED							
06/19/2016	NO	INCIDENT	OCCURRED							
06/20/2016	NO	INCIDENT	OCCURRED							
06/21/2016	NO	INCIDENT	OCCURRED							
06/22/2016	NO	INCIDENT	OCCURRED							
06/23/2016	NO	INCIDENT	OCCURRED							
06/24/2016	NO	INCIDENT	OCCURRED							
06/25/2016	NO	INCIDENT	OCCURRED							
06/26/2016	NO	INCIDENT	OCCURRED							
06/27/2016	NO	INCIDENT	OCCURRED							
06/28/2016	NO	INCIDENT	OCCURRED							
06/29/2016	NO	INCIDENT	OCCURRED							
06/30/2016	NO	INCIDENT	OCCURRED							

CO @7% AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/08/2016 @ 08:20
PERIOD: 01/01/2016 - 06/30/2016

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
01/01/2016	24.00	5.4	0.00
01/02/2016	24.00	0.6	0.00
01/03/2016	24.00	1.0	0.00
01/04/2016	19.25	9.0	0.00
01/05/2016	24.00	9.2	0.00
01/06/2016	24.00	7.3	0.00
01/07/2016	24.00	16.2	0.00
01/08/2016	24.00	19.9	0.00
01/09/2016	24.00	27.9	0.00
01/10/2016	24.00	30.6	0.00
01/11/2016	21.25	16.2	0.00
01/12/2016	24.00	22.5	0.00
01/13/2016	24.00	31.0	0.00
01/14/2016	24.00	42.4	0.00
01/15/2016	24.00	35.4	0.00
01/16/2016	24.00	48.3	0.00
01/17/2016	22.75	63.9	0.00
01/18/2016	24.00	35.7	0.00
01/19/2016	24.00	37.3	0.00
01/20/2016	24.00	40.3	0.00
01/21/2016	22.50	33.9	0.00
01/22/2016	21.75	41.3	0.00
01/23/2016	24.00	12.6	0.00
01/24/2016	24.00	13.0	0.00
01/25/2016	20.63	20.4	0.00
01/26/2016	5.22	11.4	0.00
01/27/2016	0.00	OFF	0.00
01/28/2016	0.00	OFF	0.00
01/29/2016	0.00	OFF	0.00
01/30/2016	0.00	OFF	0.00
01/31/2016	0.00	OFF	0.00
02/01/2016	0.00	OFF	0.00
02/02/2016	0.00	OFF	0.00
02/03/2016	0.00	OFF	0.00
02/04/2016	0.00	OFF	0.00
02/05/2016	0.00	OFF	0.00
02/06/2016	0.00	OFF	0.00
02/07/2016	0.00	OFF	0.00
02/08/2016	0.00	OFF	0.00
02/09/2016	17.65	49.5	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
02/10/2016	23.77	54.9	0.00
02/11/2016	9.82	37.1	0.00
02/12/2016	0.00	OFF	0.00
02/13/2016	0.00	OFF	0.00
02/14/2016	0.00	OFF	0.00
02/15/2016	0.00	OFF	0.00
02/16/2016	0.00	OFF	0.00
02/17/2016	0.00	OFF	0.00
02/18/2016	0.00	OFF	0.00
02/19/2016	0.00	OFF	0.00
02/20/2016	0.00	OFF	0.00
02/21/2016	0.00	OFF	0.00
02/22/2016	0.00	OFF	0.07
02/23/2016	0.00	OFF	0.00
02/24/2016	0.00	OFF	0.00
02/25/2016	7.32	OFF	0.00
02/26/2016	0.00	OFF	0.00
02/27/2016	0.00	OFF	0.00
02/28/2016	0.00	OFF	0.00
02/29/2016	0.00	OFF	0.00
03/01/2016	0.00	OFF	0.00
03/02/2016	0.00	OFF	0.00
03/03/2016	NO	DATA	FOUND
03/04/2016	NO	DATA	FOUND
03/05/2016	NO	DATA	FOUND
03/06/2016	NO	DATA	FOUND
03/07/2016	NO	DATA	FOUND
03/08/2016	NO	DATA	FOUND
03/09/2016	NO	DATA	FOUND
03/10/2016	NO	DATA	FOUND
03/11/2016	NO	DATA	FOUND
03/12/2016	NO	DATA	FOUND
03/13/2016	NO	DATA	FOUND
03/14/2016	NO	DATA	FOUND
03/15/2016	NO	DATA	FOUND
03/16/2016	NO	DATA	FOUND
03/17/2016	NO	DATA	FOUND
03/18/2016	NO	DATA	FOUND
03/19/2016	NO	DATA	FOUND
03/20/2016	NO	DATA	FOUND
03/21/2016	NO	DATA	FOUND
03/22/2016	NO	DATA	FOUND
03/23/2016	NO	DATA	FOUND
03/24/2016	NO	DATA	FOUND
03/25/2016	NO	DATA	FOUND
03/26/2016	0.00	DAS/PLC	24.00
03/27/2016	0.00	DAS/PLC	24.00
03/28/2016	0.00	DAS/PLC	24.00
03/29/2016	0.00	DAS/PLC	24.00

- Incinerator CEM off line - as incinerator was not in operation. JB 7-20-16

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
03/30/2016	0.00	DAS/PLC	24.00
03/31/2016	0.00	DAS/PLC	24.00
04/01/2016	0.00	DAS/PLC	24.00
04/02/2016	0.00	DAS/PLC	24.00
04/03/2016	0.00	DAS/PLC	24.00
04/04/2016	0.00	DAS/PLC	24.00
04/05/2016	0.00	DAS/PLC	24.00
04/06/2016	0.00	OFF	9.55
04/07/2016	0.00	OFF	0.00
04/08/2016	0.00	OFF	0.00
04/09/2016	0.00	OFF	0.00
04/10/2016	0.00	OFF	0.00
04/11/2016	0.00	OFF	0.00
04/12/2016	0.00	OFF	0.00
04/13/2016	0.00	OFF	0.00
04/14/2016	0.00	OFF	0.00
04/15/2016	0.00	OFF	0.00
04/16/2016	0.00	OFF	0.00
04/17/2016	0.00	OFF	0.00
04/18/2016	0.00	OFF	0.00
04/19/2016	0.00	OFF	0.00
04/20/2016	0.00	OFF	0.00
04/21/2016	0.00	OFF	0.00
04/22/2016	0.00	OFF	0.00
04/23/2016	0.00	OFF	0.00
04/24/2016	0.00	OFF	0.00
04/25/2016	0.00	OFF	0.00
04/26/2016	0.00	OFF	0.00
04/27/2016	0.00	OFF	0.00
04/28/2016	0.00	OFF	0.00
04/29/2016	0.00	OFF	0.00
04/30/2016	0.00	OFF	0.00
05/01/2016	0.00	OFF	0.00
05/02/2016	0.00	OFF	0.00
05/03/2016	0.00	OFF	0.00
05/04/2016	0.00	OFF	0.00
05/05/2016	0.00	OFF	0.00
05/06/2016	0.00	OFF	0.00
05/07/2016	0.00	OFF	0.00
05/08/2016	0.00	OFF	0.00
05/09/2016	0.00	OFF	0.00
05/10/2016	0.00	OFF	0.00
05/11/2016	0.00	OFF	0.00
05/12/2016	0.00	OFF	0.00
05/13/2016	0.00	OFF	0.00
05/14/2016	0.00	OFF	0.00
05/15/2016	0.00	OFF	0.00
05/16/2016	0.00	OFF	0.00
05/17/2016	0.00	OFF	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
05/18/2016	0.00	OFF	0.00
05/19/2016	0.00	OFF	0.00
05/20/2016	0.00	OFF	0.00
05/21/2016	0.00	OFF	0.00
05/22/2016	0.00	OFF	0.00
05/23/2016	0.00	OFF	0.00
05/24/2016	0.00	OFF	0.00
05/25/2016	0.00	OFF	0.00
05/26/2016	0.00	OFF	0.00
05/27/2016	0.00	OFF	0.00
05/28/2016	0.00	OFF	0.00
05/29/2016	0.00	OFF	0.00
05/30/2016	0.00	OFF	0.00
05/31/2016	0.00	OFF	0.00
06/01/2016	0.00	OFF	0.00
06/02/2016	0.00	OFF	0.00
06/03/2016	0.00	OFF	0.00
06/04/2016	0.00	OFF	0.00
06/05/2016	0.00	OFF	0.00
06/06/2016	0.00	OFF	0.00
06/07/2016	0.00	OFF	0.00
06/08/2016	0.00	OFF	0.00
06/09/2016	0.00	OFF	0.00
06/10/2016	0.00	OFF	0.00
06/11/2016	0.00	OFF	0.00
06/12/2016	0.00	OFF	0.00
06/13/2016	0.00	OFF	0.00
06/14/2016	0.00	OFF	0.00
06/15/2016	0.00	OFF	0.00
06/16/2016	0.00	OFF	0.00
06/17/2016	0.00	OFF	0.00
06/18/2016	0.00	OFF	0.00
06/19/2016	0.00	OFF	0.00
06/20/2016	0.00	OFF	0.00
06/21/2016	0.00	OFF	0.00
06/22/2016	0.00	OFF	0.00
06/23/2016	12.12	23.5	0.00
06/24/2016	24.00	10.2	0.00
06/25/2016	24.00	6.9	0.00
06/26/2016	10.85	7.1	0.00
06/27/2016	24.00	6.6	0.00
06/28/2016	24.00	2.2	0.00
06/29/2016	24.00	0.0	0.00
06/30/2016	24.00	0.0	0.00

— Incinerator placed in service — preheat started.
JB
7-20-16

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		22.5	
TOTAL	814.87		273.62
AVAILABILITY		97.85	

OPACITY AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 07/07/2016 @ 12:50
PERIOD: 01/01/2016 - 06/30/2016

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
01/01/2016	24.00	5.02	0.00
01/02/2016	24.00	5.41	0.00
01/03/2016	24.00	3.95	0.00
01/04/2016	19.25	4.32	0.00
01/05/2016	24.00	5.47	0.00
01/06/2016	24.00	5.95	0.00
01/07/2016	24.00	7.75	0.00
01/08/2016	24.00	6.98	0.00
01/09/2016	24.00	5.65	0.00
01/10/2016	24.00	2.55	0.00
01/11/2016	21.25	5.79	0.00
01/12/2016	24.00	5.22	0.00
01/13/2016	24.00	4.79	0.00
01/14/2016	24.00	3.66	0.00
01/15/2016	24.00	4.29	0.00
01/16/2016	24.00	1.38	0.00
01/17/2016	22.75	4.50	0.00
01/18/2016	24.00	7.27	0.00
01/19/2016	24.00	8.23	0.00
01/20/2016	24.00	9.04	0.00
01/21/2016	22.50	7.01	0.00
01/22/2016	21.75	4.81	0.00
01/23/2016	24.00	0.99	0.00
01/24/2016	24.00	3.66	0.00
01/25/2016	20.63	3.03	0.00
01/26/2016	5.22	4.88	0.00
01/27/2016	0.00	OFF	0.00
01/28/2016	0.00	OFF	0.00
01/29/2016	0.00	OFF	0.00
01/30/2016	0.00	OFF	0.00
01/31/2016	0.00	OFF	0.00
02/01/2016	0.00	OFF	0.00
02/02/2016	0.00	OFF	0.00
02/03/2016	0.00	OFF	0.00
02/04/2016	0.00	OFF	0.00
02/05/2016	0.00	OFF	0.00
02/06/2016	0.00	OFF	0.00
02/07/2016	0.00	OFF	0.00
02/08/2016	0.00	OFF	0.00
02/09/2016	17.65	0.68	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
02/10/2016	23.77	0.87	0.00
02/11/2016	9.82	0.98	0.00
02/12/2016	0.00	OFF	0.00
02/13/2016	0.00	OFF	0.00
02/14/2016	0.00	OFF	0.00
02/15/2016	0.00	OFF	0.00
02/16/2016	0.00	OFF	0.00
02/17/2016	0.00	OFF	0.00
02/18/2016	0.00	OFF	0.00
02/19/2016	0.00	OFF	0.00
02/20/2016	0.00	OFF	0.00
02/21/2016	0.00	OFF	0.00
02/22/2016	0.00	6.49	0.07
02/23/2016	0.00	OFF	0.00
02/24/2016	0.00	OFF	0.00
02/25/2016	7.32	0.03	0.00
02/26/2016	0.00	OFF	0.00
02/27/2016	0.00	OFF	0.00
02/28/2016	0.00	OFF	0.00
02/29/2016	0.00	OFF	0.00
03/01/2016	0.00	OFF	0.00
03/02/2016	0.00	OFF	0.00
03/03/2016	NO	DATA	FOUND
03/04/2016	NO	DATA	FOUND
03/05/2016	NO	DATA	FOUND
03/06/2016	NO	DATA	FOUND
03/07/2016	NO	DATA	FOUND
03/08/2016	NO	DATA	FOUND
03/09/2016	NO	DATA	FOUND
03/10/2016	NO	DATA	FOUND
03/11/2016	NO	DATA	FOUND
03/12/2016	NO	DATA	FOUND
03/13/2016	NO	DATA	FOUND
03/14/2016	NO	DATA	FOUND
03/15/2016	NO	DATA	FOUND
03/16/2016	NO	DATA	FOUND
03/17/2016	NO	DATA	FOUND
03/18/2016	NO	DATA	FOUND
03/19/2016	NO	DATA	FOUND
03/20/2016	NO	DATA	FOUND
03/21/2016	NO	DATA	FOUND
03/22/2016	NO	DATA	FOUND
03/23/2016	NO	DATA	FOUND
03/24/2016	NO	DATA	FOUND
03/25/2016	NO	DATA	FOUND
03/26/2016	0.00	DAS/PLC	24.00
03/27/2016	0.00	DAS/PLC	24.00
03/28/2016	0.00	DAS/PLC	24.00
03/29/2016	0.00	DAS/PLC	24.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
03/30/2016	0.00	0.00	24.00
03/31/2016	0.00	0.00	24.00
04/01/2016	0.00	0.00	24.00
04/02/2016	0.00	0.00	24.00
04/03/2016	0.00	0.00	24.00
04/04/2016	0.00	0.00	24.00
04/05/2016	0.00	0.00	24.00
04/06/2016	0.00	0.00	9.55
04/07/2016	0.00	OFF	0.00
04/08/2016	0.00	OFF	0.00
04/09/2016	0.00	OFF	0.00
04/10/2016	0.00	OFF	0.00
04/11/2016	0.00	OFF	0.00
04/12/2016	0.00	OFF	0.00
04/13/2016	0.00	OFF	0.00
04/14/2016	0.00	OFF	0.00
04/15/2016	0.00	OFF	0.00
04/16/2016	0.00	OFF	0.00
04/17/2016	0.00	OFF	0.00
04/18/2016	0.00	OFF	0.00
04/19/2016	0.00	OFF	0.00
04/20/2016	0.00	OFF	0.00
04/21/2016	0.00	OFF	0.00
04/22/2016	0.00	OFF	0.00
04/23/2016	0.00	OFF	0.00
04/24/2016	0.00	OFF	0.00
04/25/2016	0.00	OFF	0.00
04/26/2016	0.00	OFF	0.00
04/27/2016	0.00	OFF	0.00
04/28/2016	0.00	OFF	0.00
04/29/2016	0.00	OFF	0.00
04/30/2016	0.00	OFF	0.00
05/01/2016	0.00	OFF	0.00
05/02/2016	0.00	OFF	0.00
05/03/2016	0.00	OFF	0.00
05/04/2016	0.00	OFF	0.00
05/05/2016	0.00	OFF	0.00
05/06/2016	0.00	OFF	0.00
05/07/2016	0.00	OFF	0.00
05/08/2016	0.00	OFF	0.00
05/09/2016	0.00	OFF	0.00
05/10/2016	0.00	OFF	0.00
05/11/2016	0.00	OFF	0.00
05/12/2016	0.00	OFF	0.00
05/13/2016	0.00	OFF	0.00
05/14/2016	0.00	OFF	0.00
05/15/2016	0.00	OFF	0.00
05/16/2016	0.00	OFF	0.00
05/17/2016	0.00	OFF	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
05/18/2016	0.00	OFF	0.00
05/19/2016	0.00	OFF	0.00
05/20/2016	0.00	OFF	0.00
05/21/2016	0.00	OFF	0.00
05/22/2016	0.00	OFF	0.00
05/23/2016	0.00	OFF	0.00
05/24/2016	0.00	OFF	0.00
05/25/2016	0.00	OFF	0.00
05/26/2016	0.00	OFF	0.00
05/27/2016	0.00	OFF	0.00
05/28/2016	0.00	OFF	0.00
05/29/2016	0.00	OFF	0.00
05/30/2016	0.00	OFF	0.00
05/31/2016	0.00	OFF	0.00
06/01/2016	0.00	OFF	0.00
06/02/2016	0.00	OFF	0.00
06/03/2016	0.00	OFF	0.00
06/04/2016	0.00	OFF	0.00
06/05/2016	0.00	OFF	0.00
06/06/2016	0.00	OFF	0.00
06/07/2016	0.00	OFF	0.00
06/08/2016	0.00	OFF	0.00
06/09/2016	0.00	OFF	0.00
06/10/2016	0.00	OFF	0.00
06/11/2016	0.00	OFF	0.00
06/12/2016	0.00	OFF	0.00
06/13/2016	0.00	OFF	0.00
06/14/2016	0.00	OFF	0.00
06/15/2016	0.00	OFF	0.00
06/16/2016	0.00	OFF	0.00
06/17/2016	0.00	OFF	0.00
06/18/2016	0.00	OFF	0.00
06/19/2016	0.00	OFF	0.00
06/20/2016	0.00	OFF	0.00
06/21/2016	0.00	OFF	0.00
06/22/2016	1.75	0.00	0.00
06/23/2016	12.12	0.03	0.00
06/24/2016	24.00	0.00	0.00
06/25/2016	24.00	0.00	0.00
06/26/2016	10.85	0.00	0.00
06/27/2016	24.00	0.00	0.00
06/28/2016	24.00	0.00	0.00
06/29/2016	24.00	0.00	0.00
06/30/2016	24.00	0.00	0.00

Incinerator started - under preheat - JB 7-2016

	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
TOTAL	816.62		273.62
AVAILABILITY		98.70	

Part 5: Monitoring and Non-Monitoring Equipment Malfunctions

EMU# or Unit ID	Permit Cond. ID	Monitoring System Failure Period				Description and Cause of Monitoring System Failure	Corrective Actions Taken to Remedy Monitoring System Failure	Measures Taken to Prevent Future Monitoring System Failures
		Start		End				
		Date	Time	Date	Time			
52	III.E.21							
52	III.E.21	1/07	9:12	1/07	9:13	Primary Monitor Malfunction	Corrective Maintenance	Continued recalibration until technician arrived
52	III.E.21	1/10	9:55	1/10	9:58	Primary Monitor Malfunction	Corrective Maintenance	Continued recalibration until technician arrived
52	III.E.21	1/10	13:02	1/10	13:02	Primary Monitor Malfunction	Corrective Maintenance	Continued recalibration until technician arrived
52	III.E.21	1/12	4:41	1/21	4:41	Primary Monitor Malfunction	Corrective Maintenance	Continued recalibration until technician arrived
52	III.E.21	1/21	14:21	1/21	14:25	Primary Monitor Malfunction	Corrective Maintenance	Continued recalibration until technician arrived
52	III.E.21	2/22	10:48	2/22	10:52	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/02	9:35	3/02	9:43	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/26	00:00	3/25	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/27	00:00	3/27	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/28	00:00	3/28	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/29	00:00	3/29	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/30	00:00	3/30	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	3/31	00:00	3/31	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/01	00:00	4/01	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/02	00:00	4/02	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/03	00:00	4/03	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/04	00:00	4/04	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/05	00:00	4/05	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	4/06	9:24	4/06	23:59	Data Handling System Malfunction	Incinerator not in operation	Incinerator not in operation
52	III.E.21	6/28	11:32	6/28	11:32	Primary Monitor Malfunction	Corrective Maintenance	Manual Recalibration
52	III.E.21	6/28	13:33	6/28	13:36	Primary Monitor Malfunction	Corrective Maintenance	Manual Recalibration

Part 6: List of Excess Emissions

EMU# or Unit ID	Permit Cond. ID	Deviation Period				Description, Cause or Likely Cause of Deviation	Measured Value of Deviation	Description and Date(s) of Actions Taken to Correct Deviation	Description and Date(s) of Measures Taken to Prevent Future Deviations
		Start		End					
		Date	Time	Date	Time				
52	III.E.21					NONE TO REPORT			

Mayor encourages voters to reject municipal budget

Referendum on tap for Naugatuck spending plans

By Luke Marshall
Staff Writer

NAUGATUCK — Mayor N. Warren "Pete" Hess has a message for voters who don't want to see a 4 mill increase: head to the polls.

"They have a choice of a mill rate of 49.74 or one that is reduced by approximately 2 mills," Hess said.

A referendum on the proposed 2016-17 municipal and school budgets is set for July 12. Voting will be open from 6 a.m. to 8 p.m. at the Naugatuck Senior Center, 300 Meadow St. Anyone who needs a ride to the senior center can call 203-806-0588 and leave a message

Voters will be asked to vote 'yes,' 'no: too high' or 'no: too low' on the municipal and school budgets.

The proposed $58.2 million municipal budget is a $4.71 million increase, or 8.55 percent, over the 2015-16 budget. The proposed school budget is flat at $61.6 million.

Combined, the 2016-17 budget is $119.98 million. The proposed budget increases the mill rate 4.17 mills, or about 9 percent, from 45.57 to 49.74.

One mill equals $1 for every $1,000 of assessed value. Under a 49.74 mill rate, a home assessed at $150,000 will pay $7,461 in taxes, an increase of $625.

The budget was adopted in May. Following adoption of the budget, Hess encouraged residents to force a referendum through petitions in order to buy more time to resolve issues with Veolia North America, which runs the borough's wastewater treatment plant.

Veolia shut down the incinerator at the plant and stopped paying rent to the borough in April due to concerns about facing violations for not meeting federal mandates to reduce the amount of pollutants emit-

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VOTE

From page 1

ted. The 2016-17 budget proposal, as it stands now, supposes no revenue from the rent paid by Veolia. The company pays approximately $4 million a year in rent.

The borough recently reached an agreement with Veolia.

Hess said adding the rent back into the budget would decrease the proposed mill increase by approximately 2.5 mills to 47.24. He encouraged all residents to vote against the municipal budget so the revenue can be added in and the mill rate adjusted.

In order for the referendum to be considered valid, at least 15 percent of registered voters, approximately 2,573, need to cast their vote.

If not enough voters show up or they vote in favor of the municipal budget, the borough would move forward with the proposed 49.74 mill rate. The revenue from Veolia's rent can't be put in if the municipal budget passes.

"We would have excess funds on hand and we will have to determine exactly how to deal with that," Hess said.

Hess said the borough might consider sending out a refund, but thinks it would be easier if this budget failed at the referendum.

"I would rather have the budget voted down, reset it at an accurate number, and move forward in a more normal fashion," Hess said.

Residents must get out and vote at referendum

To the editor,

The mayor just announced that they have reached an agreement with (Veolia North America, which runs) the wastewater treatment plant and by us passing the referendum our mill rate will drop 2 mills. This is a large amount of money to all of us that pay property tax. It also shows that something could have done before they closed the budget to put this in the budget, they knew the settlement was going to happen. To settle with the wastewater treatment plant, they had to be close enough to know.

I personally think the mayor was making a grand stand asking the people to get a petition going so we can have a referendum costing $17,000, according to the last mayor, that could have been used for more lowering of the taxes. Guess this mayor thinks the townspeople are not smart enough to see this.

I hope we can get the 15 percent of the registered voters to vote to pass this referendum so the Mayor and Board of Burgesses must lower the budget and give us a break for a change. If we don't, the budget will go through with a 9 percent (mill rate) increase. How many of you taxpayers got a 9 percent pay raise lately?

Vote on July 12, 2016 at the Naugatuck Senior Center at 300 Meadow St.

Sophie Zmyewski-Wooster
Naugatuck

Borough budgets fail at referendum

By Luke Marshall
Staff Writer

NAUGATUCK — Voters overwhelmingly rejected the proposed 2016-17 municipal and school budgets at a referendum Tuesday.

After the polls closed at the Naugatuck Senior Center, 2,912 voters had cast their ballots, surpassing the 15 percent turnout threshold needed for the votes to count under borough laws.

The proposed $58.2 million municipal budget, which was an increase of $4.71 million, or 8.55 percent, was rejected soundly with 2,793 people voting "no: too high," 23 voted "no: too low," and 42 voted "yes."

The $61.6 million Board of Education budget, which is flat compared to last year's school spending, was also voted down as 2,445 people voted "no: too high," 43 voted "no: too low," and 341 voted "yes."

Although the school budget was rejected, borough officials can't decrease it because it is a flat budget. New state law allows school districts to decrease their budgets, however Naugatuck is exempt from that law because the school district is one of 30 Alliance Districts in the state.

The total proposed operating budget was $119.98 million, an increase of $4.71 million, or 4 percent, over the 2015-16 budget. The proposed budget would have increased the mill rate 4.17 mills, or about 9 percent, from 45.57 to 49.74.

One mill equals $1 for every $1,000 of assessed value. Under a 49.74 mill rate, a home assessed at $150,000 would pay $7,461 in taxes, an increase of $625.

After the budget was adopted in May, Mayor N. Warren "Pete" Hess encour-

See BUDGETS, page 25

A. PARRELLA & Associates

BUDGETS

From page 1

aged voters to force the referendum through petitions and reject the municipal budget to buy time to resolve issues with Veolia North America, the company that runs the borough's wastewater treatment plant.

A large portion of the mill rate increase stemmed from the borough not putting the revenue from Veolia's rent into the budget. At the time the budget was crafted Veolia had shut down the incinerator at the plant and was not paying rent to the borough. Since then an agreement has been reached between Veolia and the borough. The additional revenue from Veolia is expected to decrease the mill rate increase by about 2 mills.

Many residents were concerned about increasing taxes.

Resident Alirio Almeida said his taxes increased $400 last year and were set to increase about $600 this year.

"I am against the increase of taxes. Every year the taxes are going up and up. Pretty soon we can't live here. You pay more taxes here than any other town around," Almeida said.

The Joint Boards of Mayor and Burgesses and Board of Finance will meet Monday at 6:30 p.m. at the Board of Education offices to present a new budget. That budget will go to a public hearing July 21 at 6:30 p.m. at Naugatuck High School.

Borough officials are scheduled to adopt a new budget, which could be forced to another referendum, July 25 at 6:30 p.m. at the school board offices.

"I will be presenting a budget to the joint boards with a mill rate decrease of more than 2 mills. I am happy that we can achieve this decrease in the mill rate but I am surprised that more people did not vote," Hess said.

Budget set at $120.9 million

Borough spending plan would raise taxes 4.6 percent

By Elio Gugliotti
Editor

NAUGATUCK — After some final adjustments, the Joint Boards of Mayor and Burgesses and Finance Monday night adopted a nearly $120.9 million budget for the 2016-17 fiscal year that raises taxes about 4.6 percent.

The $120.9 million budget is an increase of $5.6 million, or 4.87 percent, over the 2015-16 budget. The budget increases the mill rate 2.1 mills, or 4.6 percent, from 45.57 to 47.67.

One mill equals $1 for every $1,000 of assessed value. Under a 47.67 mill rate, a home assessed at $150,000 will pay $7,150.50 in taxes, an increase of $315.

The municipal budget is $59.2 million, which is an increase of $5.5 million, or 10.28 percent over the 2015-16 budget. The Board of Education budget is $61.6 million, which is flat compared to 2015-16 school spending.

The budget adopted Monday increases spending $154,000 from the spending plan presented at a public hearing four days earlier. This increase stems from finalized figures for mandated upgrades to the incinerator at the borough-owned wastewater treatment plant.

Mayor N. Warren "Pete" Hess said the borough learned last Friday — the day after the public hearing — that the cost of the upgrades came in at an estimated $8.5 million, or about $2 million higher than expected. The higher cost means the borough has to pay an additional $180,000 this fiscal year to bond for the project.

Officials were presented with two options Monday: put the additional $180,000 in the budget or use some money that is no longer needed from a previous $2.1 million bond issued to pay the $180,000 this year. There is about $1 million from the bond that is not needed, officials said.

Those in favor of including the money in the budget argued that not including it would create an $180,000 hole in next year's budget. They also contended using the entire $1 million to pay back part of the bond will reduce the cost of the bond in the long run.

Others argued that paying the $180,000 this year from the $1 million would save the taxpayers some money.

"Why raise the mill rate if we don't have to?" Board of Finance member Andy Bottinick asked.

The joint boards approved, 10-6, putting the $180,000 into the budget.

Officials also removed $11,000 from elections and $15,000 from the fire department's overtime budget to offset part of the $180,000 increase. The only other change made was removing $110,000 from the capital budget for seven new police vehicles and replacing it with $110,000 to pay for upgrades to the borough's phone system.

In total, the $120.9 million budget increases spending by $930,135, over the proposed $119.98 million budget that was rejected at a referendum earlier this month. The budget also reduces the mill rate increase by 2.05 mills from the one voters defeated. The first proposal would have increased the mill rate 4.17 mills, or a little more than 9 percent.

Residents questioned the spending increase following the referendum at a public hearing July 21.

Matt Katra, the Republican registrar of voters, asked why and whether it was even legal for the borough to increase spending when voters rejected the budget.

"Ninety-seven percent of people said the spending was too high, so how can you increase spending?" he asked.

Officials simply said it was not illegal because their charge is to do what is fiscally responsible for the borough. They also noted that due to new revenue projections, the tax rate will actually be significantly lower than it would have been before the referendum.

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"Our obligation is to present a revised budget. It doesn't have to be up or down. We have to do what we feel is best for the taxpayers," Hess said Monday night.

The driving force behind the spending increase and the decrease in the mill rate increase is the borough's settlement with Veolia North America, the private company that runs the wastewater treatment plant.

The first budget proposal did not include revenue from the rent Veolia pays to the borough. The borough and Veolia were at odds over several issues when the first proposal was adopted. At the time, Veolia had shut down the incinerator at the plant over concerns with meeting federal mandates to reduce pollutants and stopped paying rent.

The borough and Veolia subsequently reached an agreement, which solidified the revenue the borough will receive from Veolia.

However, as part of the negotiation, Naugatuck had to agree to take on some additional expenditures at the treatment plant. Aside from the $180,000 discussed Monday, the borough had to agree to also pay, from this budget, $350,000 toward incinerator upgrades and $285,000 for efforts to reduce phosphorous from the effluent.

Hess said nearly all of the spending increase following the referendum is directly related to the settlement with Veolia case, which he added brought more than $3 million in revenue to the borough.

He said the borough has to spend money to upgrade the incinerator and comply with federal law. If the borough is out of compliance or didn't settle with Veolia, he said, the revenue figures would be much lower.

"To me it was a very easy decision to spend money that is necessary to comply with the settlement, to comply with federal law and bring in revenue to the town that allows us to have a 2 mill increase rather than a 4 mill increase," Hess said.

Borough officials also added $52,000 for additional insurance costs, $19,000 for a new part-time position for the assessor's office, and $15,000 to enforce ordinances, such as the blight ordinance, to the budget after the referendum.

The overall budget increase is driven by a $2,561,551 increase, or 55.7 percent, in debt services. Aside from upgrades to the wastewater treatment plant, the borough is also starting to pay back the $81 million Naugatuck High School renovation project.

Hess added the budget solves many problems from the past, including recently settled litigation with Naugatuck Ambulance Corp., in one package.

"I feel that it's good we put them all together, put our past problems behind us and begin to move forward," he said.

The budget can be forced to a second referendum if residents petition to do so. Petitions with signatures from at least 8 percent of the registered voters in Naugatuck need to be submitted within 14 days of Monday's meeting to force the vote.

Hess, who encouraged residents to force the first referendum to buy time to resolve issues with Veolia, said he isn't encouraging a second vote.

"If there is one I will encourage people to vote in favor of the budget," Hess said.

The Republican-American contributed to this article.

Our View

How you do things matters most

Often it's not what you do but how you do it.

In May, borough officials adopted a $119.98 million budget, which would have raised taxes a little more than 9 percent. This budget didn't factor in any revenue from the rent paid by Veolia North America, the private company that runs the borough-owned wastewater treatment plant, due to the two sides being at odds. Officials encouraged voters to force a referendum and reject the municipal budget to buy time to resolve outstanding issues with Veolia.

Rather than put estimated revenue in the budget that may not come or push ahead with the possibility of getting additional revenue to pad the coffers in their back pocket, officials laid all the cards on the table in a very transparent move.

Fast-forward to July, and everything played out as planned. The referendum was forced, the budget was rejected, and the borough reached a settlement with Veolia that secured the revenue in question.

On Monday, the Joint Boards of Mayor and Burgesses and Finance adopted a $120.88 million budget that drops the tax increase to about 4.6 percent. It also spends more than the one rejected at the referendum — a fact that wasn't lost on the handful of residents that spoke at last week's public hearing.

The bulk of the spending increase is easily justified. The same settlement with Veolia that brought in revenue to decease the tax increase came with some new expenses as well, namely $530,000 toward incinerator upgrades and $285,000 for efforts to reduce phosphorous from the effluent at the plant.

These additional costs — as we said — are justifiable. No legal settlement is going to come down 100 percent in one side's favor and the borough's hands are tied in the matter. Ignoring the upgrades any longer would have led to significantly less revenue for Naugatuck.

If these costs were the only additional ones, there'd be nothing to see here as they say.

The increase also includes $19,000 for a new part-time position for the assessor's office, $22,000 for new police vehicles and $15,000 for borough employees to enforce ordinances, such as the blight ordinance, the Republican-American reported.

Before we continue, we must acknowledge that the additional $56,000 doesn't put a dent in the mill rate one way or the other. Also, having the time afforded by a referendum allows figures and needs to come more into focus.

Officials said some of these items should have been put into the original budget and were now added because of the revenue increase, the Republican-American reported.

We do not doubt that this additional spending is warranted. They *should* have been included in the original budget if they are that important.

Adding these expenses, albeit minor ones, into the budget following a referendum where voters overwhelmingly said the municipal budget is too high feeds the perception that officials are going to do what they want and the public's voice doesn't matter, even if that's not the reality.

Study to explore regionalizing treatment plants

By Luke Marshall
Staff Writer

The Naugatuck Valley Council of Governments is hoping a new study will help Valley towns save money when it comes to treating wastewater.

The NVCOG received a $1.35 million state grant in June to conduct a study on consolidating the wastewater facilities in the Ansonia, Derby, Seymour, Beacon Falls, and Naugatuck, according to a press release issued by Gov. Dannel Malloys office.

NVCOG Executive Director Rick Dunne said the Valley currently has too many treatment plants.

"When [the towns] built these they were seen as job creators and economic drivers. We now have too many plants when fewer would have been more efficient," Dunne said.

Dunne said many of the plants are now facing significant and expensive upgrades.

"We have plants that are facing somewhere in the neighborhood of half a billion dollars. That's not the infrastructure around town, just at the plants. It's a huge amount of money," Dunne said.

That is where the study comes into play.

"What we are going to look at is if there is a way to have a higher level of service at a lower cost by working cooperatively," Dunne said.

Dunne said the study will look at the inflow and infiltration of each of the

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plants.

"Every system, no matter how good, has a certain amount of clean water processed as sewage," Dunne said.

Dunne said this clean water comes in from leaking pipes in a municipality or the cross connection of the pipes that allow rain water to seep into the system.

Clean water is problematic because it offsets the amount of inflow the plant can process, Dunne said.

"There is a fair amount of capacity in plants not available for sanity wastewater because we are processing clean water. A plant that processes 10 million gallons, but has 3 million gallon of infiltration when it rains, can't plan for its full 10 million gallons. It is capacity that is lost," Dunne said.

The study will also take into account the upgrades needed to bring the plants in compliance with current federal and state regulations on reducing pollutants emitted by the plants, Dunne said.

However, even if a treatment plant receives upgrades to bring it into compliance, it doesn't mean the study will recommend that plant remains open.

"We have to look beyond their immediate needs. We have to look at how do we create the most efficient system for this treatment process," Dunne said.

Naugatuck Mayor N. Warren "Pete" Hess, who made the original motion that the council of governments should seek the funding for the study, said he is in complete support of

ews

looking into regionalization.

"Basically there are opportunities in the future for regionalization of wastewater facilities that should be analyzed and pursued by towns along the Naugatuck River," Hess said.

Naugatuck currently has six years left in its contract with Veolia North America, the private company that runs the wastewater treatment plant, Hess said. He expects the study and any subsequent decision to take until the contract with Veolia expires.

In the meantime, the borough has begun funding upgrades to the plant's incinerator and treatment processes to bring it in compliance with the mandates.

Beacon Falls First Selectman Christopher Bielik said the town is "very excited" about the study and the possibility of regionalization. He said the town would be foolish not to participate in a study and look into the possibilities of performing more efficiently.

Beacon Falls' treatment plant is currently purchasing nitrogen credits and chemically treating its wastewater for phosphorous to remain within mandated levels.

"Standing alone the way we are seems like it is the least efficient way to leverage a greater amount of dollars and efficiently run the plant. I will be very anxious to participate in this study to get us to an alternative solution," Bielik said.

"We don't want to prejudge outcome. I don't know if that outcome means a regional system where towns own facilities but share services on a peer-to-peer basis, or it could mean status quo."

RICK DUNNE
NAUGATUCK VALLEY COUNCIL OF GOVERNMENTS
EXECUTIVE DIRECTOR

Dunne said there is no timeline for when the study will be finished. The preliminary work is expected to begin at the end of summer or early fall.

Once the study has been finished and the Naugatuck Valley Council of Governments has the information, it will make recommendations on how to move forward, Dunne said.

"We don't want to prejudge outcome. I don't know if that outcome means a regional system, a system where towns own facilities but share services on a peer-to-peer basis, or it could mean status quo," Dunne said.

ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 7/25/2016 TIME: 11:00 AM

CALL TAKEN BY: Ricardo Rivera

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

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

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: 10.0 WEATHER: TEMP 87.5 RAIN 0 HUMID 71 DRY ___ UNSEASONABLY WARM/COLD Hot & Humid

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:
Had issues with sodium hypochlorite pumps

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ✓ OFF ___ PH 8.45 ORP 871 MAKE UP WATER: 0.5-1 GPM ✓ SPRAYS ___

FILTER BLDG SCRUBBER: ON ✓ OFF ___ PH 7.78 ORP 735 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: Ricardo Rivera DATE: 7/25/16 TIME: 11:30 Am

RETURN CALL MADE BY: Chris Makuch DATE: 7/25/16 TIME: 1:33 PM

RETURN CALL RESULTS:
Spoke with resident and explained where the possible source was and that we are fixing the issue. Resident seemed satisfied. Road construction is being done 1 block away from resident. Spoke with officer on site. He informed me that he had not noticed any odors.

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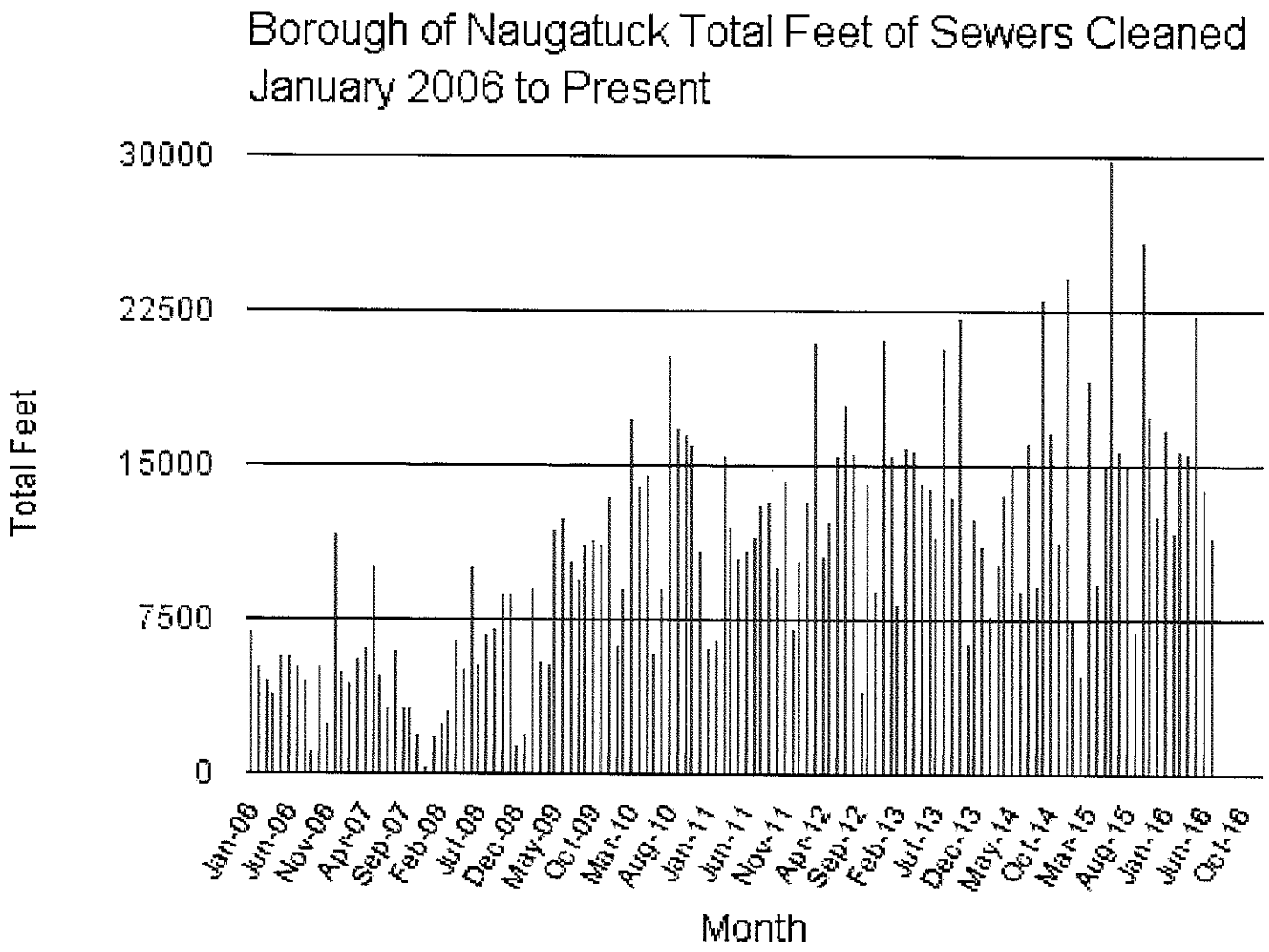
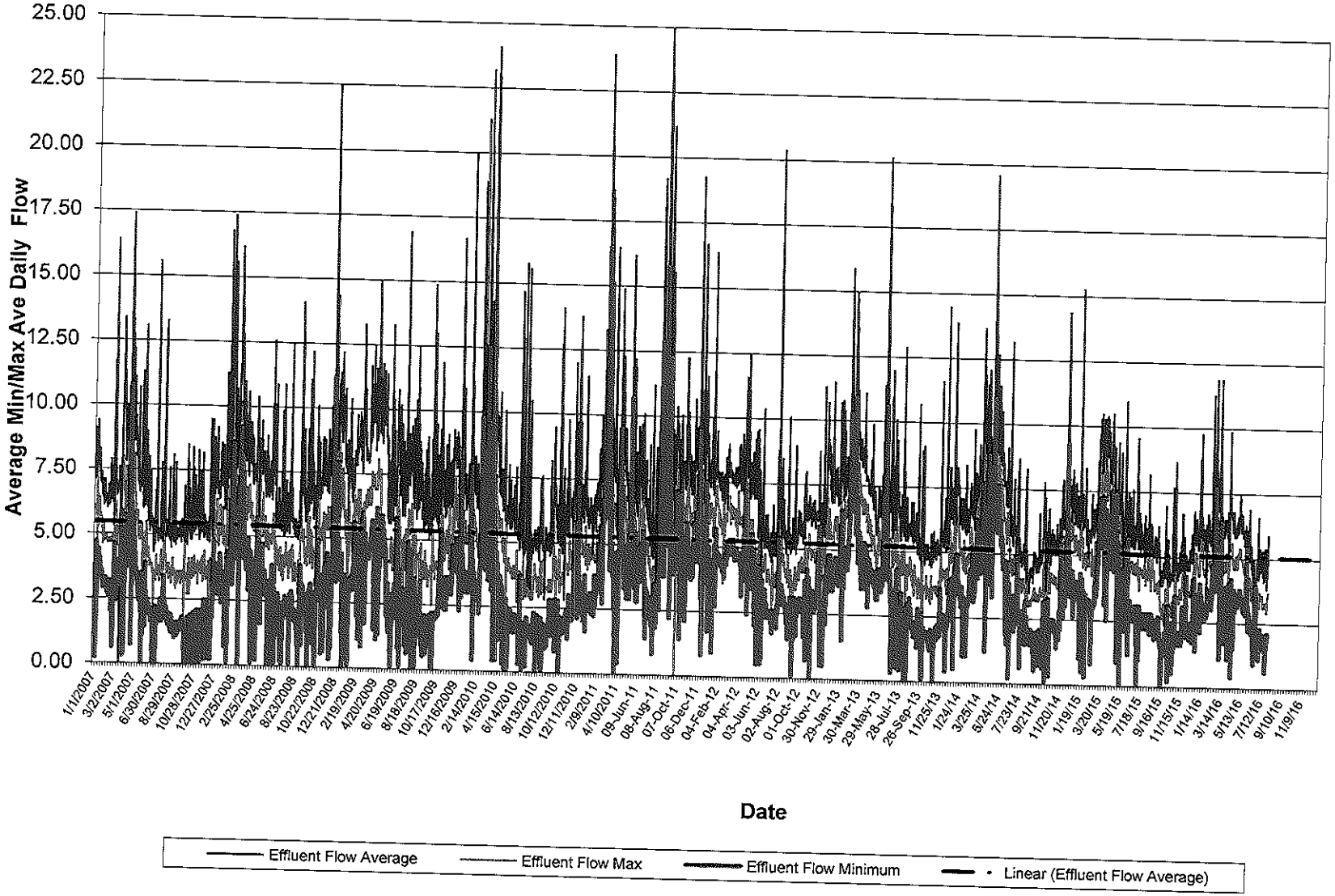
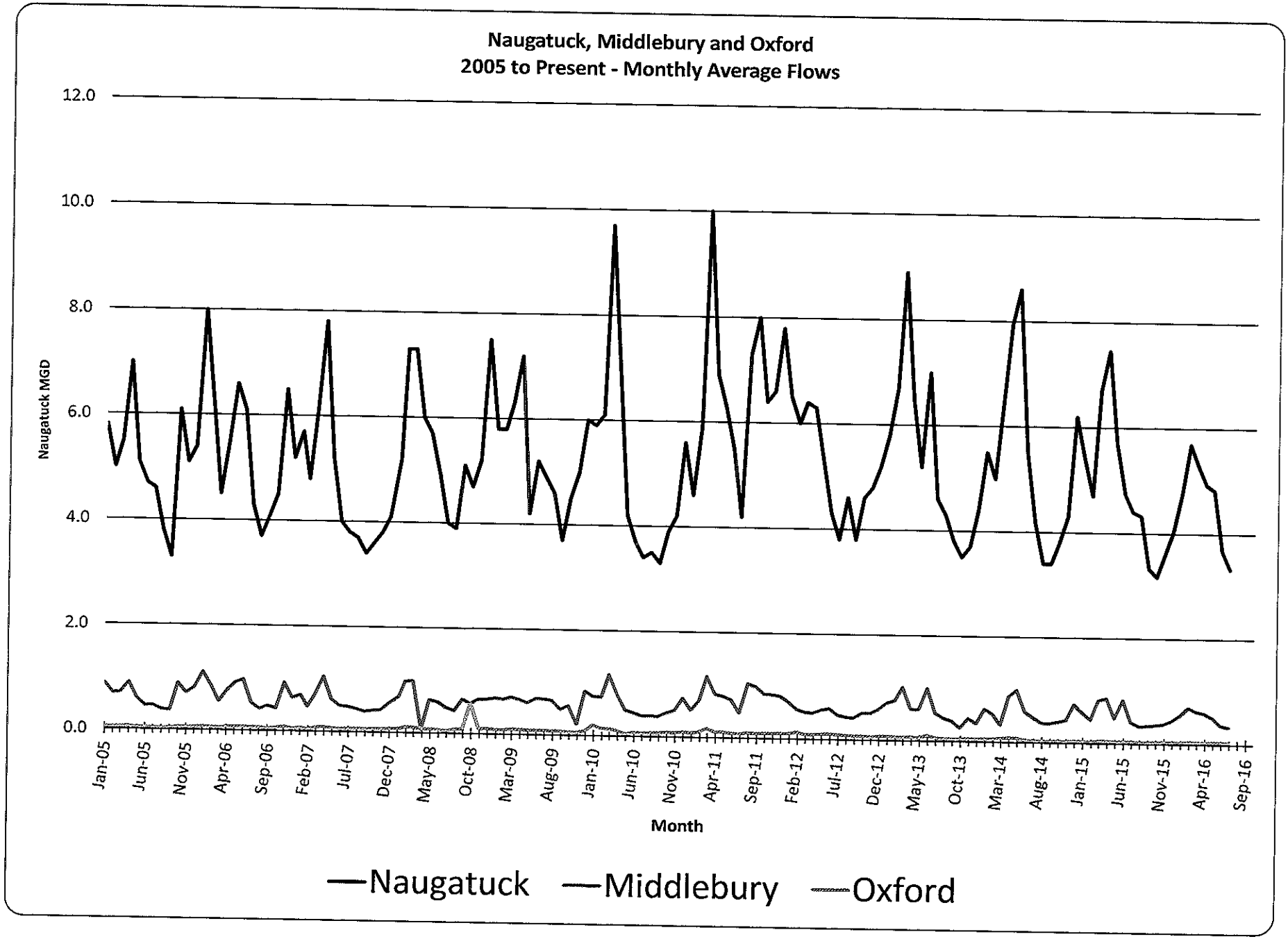

Borough of Naugatuck Total Feet of Sewers Cleaned
January 2006 to Present
30000
22500
15000
7500
0
Total Feet
Jan-06
Jun-06
Nov-06
Apr-07
Sep-07
Feb-08
Jul-08
Dec-08
May-09
Oct-09
Mar-10
Aug-10
Jan-11
Jun-11
Nov-11
Apr-12
Sep-12
Feb-13
Jul-13
Dec-13
May-14
Oct-14
Mar-15
Aug-15
Jan-16
Jun-16
Oct-16
Month

Naugatuck WPCF Daily Min/Max/Total Flow Data
2007 to Present MGD




Naugatuck, Middlebury and Oxford
2005 to Present - Monthly Average Flows
Naugatuck MGD
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Jan-05
Jun-05
Nov-05
Apr-06
Sep-06
Feb-07
Jul-07
Dec-07
May-08
Oct-08
Mar-09
Aug-09
Jan-10
Jun-10
Nov-10
Apr-11
Sep-11
Feb-12
Jul-12
Dec-12
May-13
Oct-13
Mar-14
Aug-14
Jan-15
Jun-15
Nov-15
Apr-16
Sep-16
Month
Naugatuck
Middlebury
Oxford