VEOLIA
WATER

February 9, 2015

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

Re: **January 2015 Monthly Operating Report**

Dear Mr. Merancy:

Enclosed please find Veolia Water's Monthly Operating Report for the month of January 2015.

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 January 2015

This report summarizes the activities at the Borough POTW for January 2015:

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.	-	233
Effluent Avg.	30	6
Removal Efficiency	85%	97%
Plant Process Data*	**Limit**	**Actual**
Carbonaceous BOD (mg/l)		
Influent Avg.	-	107
Eff Avg(Nov 1 – May 31)	25	
Eff Avg(June – Oct 31)	15	4
Removal Efficiency	85%	96%

Discharge Permit Exceedance: None

	Naugatuck	**Middlebury**	**Oxford**	**OTR**
Jan Flow Avg. (MGD)	5.4	0.579	0.041	N/A
Sludge Liquid Total (MGal)				4,202,755
Sludge Cake Total (Wet Tons)				5345.44
Septage Total (MGal)	25,750	3,000	98,500	265,150

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

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

1. **Compliance & Regulatory Issues**
   - **a.** There were no odor complaints in January.
   - **b.** Wright Pierce will review the Ash Lagoon Management and Sludge Management Plans.
   - **c.** A meeting scheduled for Jan 28, 2015 at CTDEEP on SSI compliance was cancelled. The makeup date is Feb 11, 2015.
2. **Personnel**
   - **a.** A licensed plumber started Jan 26, 2015 filling the position vacated by the previous plumber who resigned.
3. **.Health & Safety**
   - **a.** Monthly safety meetings were held.
   - **b.** Annual fire extinguisher inspection was conducted by CT Fire.
   - **c.** The Collection crew will have an audiometric survey performed in February.
   - **d.** Annual respiratory and audiometric testing has been completed for 2015.

Borough of Naugatuck
Monthly WPCF Report January 2015

4. Operational Information

- **a.** The refractory crack in the exhaust duct expansion joint was repaired with minimal shutdown time.
- **b.** For the record, the incinerator has operated continuously for over 2 ½ years.
- **c.** On Jan 18, 2015, influent flows peaked at 15.3 MG with a rainfall of 1.29 inches. Historical average plant flow is 5 MG.

5. Collections

- **a.** A collapsed sewer was repaired on Cedar Street.
- **b.** A new manhole was installed new 84 Hilltop (there was no manhole near the area to remove roots that grew near that homes lateral.

6. Maintenance

- **a.** The North J Spin was sent out for repair.
- **b.** The incinerator exhaust duct expansion joint leak was repaired on Jan 13, 2015.
- **c.** CCC-1, one of the main merchant sludge silo shaftless screws will require replacement under warranty. Details to follow as we schedule this task.

7. Capital Projects

- **a.** No report.

Borough of Naugatuck
Collections Systems Report
January 2015

VEOLIA WATER

	Calls for Service
1	01/15/15 - 48 Carol st
2	01/15/15 - 86 Celantano
3	01/18/15 - 41 Locust st
4	01/23/15 - 84 Hilltop dr
5	01/28/15 - 147 Park ave
6	

This Month	Year to Date
5	15

	Calls Caused By Collection System	Reason
1	84 Hilltop	Main line was blocked due to roots
2	147 Park ave	Main line was blocked due to roots
3		
4		

	High Velocity Cleaning		
	Street Name	Date	Footage
1	Rough Wing dr 14-58 to 14-56	1/2/2015	560
2	Rough Wing dr 14-56 to 14-37	1/2/2015	160
3	Thistle Down 14-64A to 14-64	1/8/2015	200
4	Thistle Down 14-64 to 14-72	1/8/2015	275
5	Thistle Down 14-72 to 14-75	1/8/2015	175
6	Bobwhite No # to 14-64	1/8/2015	345
7	Morning Dove 11-133 to 14-72	1/8/2015	450
8	Thistle Down 14-65 to 14-64A	1/13/2015	175
9	Alma st no m/h #s	1/14/2015	125
10	Alma st no m/h #s	1/14/2015	120
11	Alma st no m/h #s	1/14/2015	150
12	Celantano dr	1/15/2015	200
13	Carol st	1/15/2015	400
14	Locust st 7-135 to 7-136	1/19/2015	240
15	Locust st 7-135 downstream	1/19/2015	100
16	Gen Pulaski Walk 7-18 to 7-19	1/20/2015	170
17	Gen Pulaski Walk 7-18 to 7-17	1/21/2015	250
18	Gen Pulaski Walk 7-17 to 7-54	1/21/2015	200
19	Cedar st 7-1A to clean out	1/21/2015	250
20	Hilltop dr 6-259 upstream	1/23/2015	150
21	Phylis dr 6-143 to 6-138	1/26/2015	1125
22	Park ave 6-306 to clean out towards Millville	1/28/2015	440
23	Park ave 6-306 to clean out towards Chestnut	1/28/2015	200
24	Spencer st 9-227 to 9-225	1/29/2015	710
25	Ida st 9-225 to clean out	Jan-15	150
26	84 Hilltop from dig site 300 up stream from 6-259	1/30/2015	200
27			
28			

6 month list
Call for service

This Month		Year to Date	
7520	Feet	108277	Feet

	Root Treatment		
	Street Name	Type	Footage
1	Gen Pulaski Walk 7-18 to 7-19	root cutter	170
2	Hilltop dr 300 feet upstream from 6-259	root cutter	50
3			

This Month		Year to Date	
220	Feet	3911	Feet

	Video Inspections		
	Street Name	Type	Footage
1	86 Celantano dr	cctv	50
2	Locust st 7-135 downstream	cctv	50
3	Gen Pulaski Walk 7-18 to 7-19	cctv	162
4	Cedar st 7-1A upstream	cctv	120
5	Cedar st cleanout downstream	cctv	90
6	Hilltop 6-259 upstream	cctv	133
7	Hilltop 6-259 downstream	cctv	100

This Month		Year to Date	
705	Feet	3615	Feet

	Pump Station Services			
	Work performed	Location	Date	Notes
1	weekly pumpstaion checks	all 5	1/2/2015	1 ft draw downs on all pumps and gen checks
2	weekly pumpstaion checks	all 5	1/8/2015	
3	weekly pumpstaion checks	all 5	1/16/2015	floats cleaned and generators exersized
4	weekly pumpstaion checks	all 5	1/22/2015	checked oil in all generators
5	weekly pumpstaion checks	all 5	1/30/2015	
6				
7				

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
Inwood	End Reading	247.9	358.4	0.1
	Start Reading	198.10	303.8	0.1
	Hrs Run	49.8	54.6	0

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
MAPLE & MAY	End Reading	3311.5	2580
	Start Reading	3258.4	2534.5
	Hrs Run	53.1	45.5

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
Platts Mill	End Reading	4492.6	5590.1
	Start Reading	4303	5488.8
	Hrs Run	189.6	101.3

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
Hopbrook	End Reading	1086.4	763.6
	Start Reading	1071.5	710.4
	Hrs Run	14.9	53.2

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
HORTON HILL	End Reading	7849.5	9633.9
	Start Reading	7742.6	9538.2
	Hrs Run	106.9	95.7

Vac Truck Information

Days out of the plant working		
This Month	YTD	Remaining
17	108	42

	$171.06	52.5	Gallons	YTD Gallons	
	$211.02	62.5	Gallons	927.1	Gallons
			Gallons		
			Gallons	YTD Fuel Cost	
This Months Total	$382.08	114.9	Gallons	$3,213.98	

	Mileage		Engine Hours
Month Start	180795	Month Start	5375.3
Month End	181894	Month End	5430.5
Total	1099	Total	55.2

Utlity Truck Information

	Fuel Cost	Fuel Used		
	$62.27	19.1	Gallons	YTD Gallons
	$81.00	23.97	Gallons	490.19
	$96.02	29.46	Gallons	
	$109.64	34.71	Gallons	YTD Fuel Cost
Monthly Totals:	**$348.93**	**107.24**	Gallons	$1,724.65

Other tasks and notes

1	01/05/15 - Checked generator batteries at all pumpstaions. Vac truck prepped for replacement of relief valve.
2	01/06/15 - Jetted storage tank #3 from basement.
3	01/07/15 - Put new relief valve on Vac truck. New hoses, new fittings with the new valve installed and tested.
4	01/09/15 - Snow removal at the plant until noon and snow removal at the pump stations the rest of the day.
5	01/12/15 - Found #2 pump at Hopbrook to be bad. Pulled pump and put hardware on new pump. Installed new pump.
6	01/13/15 - Safety meeting in morning. Dye tested storm sewers at the top of Horton Hill for I&I.
7	01/14/15 - Vac and cleaned the Liquid dump drain and vac out the primary skimmimgs.
8	01/15/15 - Vac out and clean Inwoods pump station wetwell.
9	01/16/15 - Vac out and clean Platts Mills pump station wetwell. Pulled both pumps and de-ragged them.
10	01/20/15 - PM on Vac truck.
11	01/21/15 - Found collapsed pipe on Cedar st. Met with G&L to set up dig.
12	01/22/15 - Pipe repair on Cedar st with G&L. Replaced a 14 ft section of broken pipe. Vac truck vaccumed the line.
13	01/23/15 - Flushed and dye tested line on Hilltop to check for flow downstream from 84 Hilltop.
14	01/26/15 - Got plow trucks ready for snow strom. Fixed bracket for the sander, check hydro fluids, plow markers,
	new snow foil.
15	01/27/15 - Came in early for snow storm, snow removal all day.
16	01/28/15 - Pump station snow removal until noon.
17	01/29/15 - Bought and installed new plow blades for both plow trucks. Used Vac truck to jet clogged thickener feed line.
18	01/30/15 - Came in early for snow reamoval. Emergency repair at 84 Hilltop was needed. G&L was contacted and did
19	the repair.
20	
21	
22	
23	
24	
25	
26	

VEOLIA
WATER

Sent via certified mail #7009 2820 0004 1018 1412 on February 6, 2015

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

February 6, 2015

Re: January 2015 Reports for Naugatuck, CT WPCF, NPDES # CT0100641

Dear Sir/Madam:

Enclosed please find the *Monthly Operating Report* for January 2015. The *Nutrients Analysis Report for Compliance with General Permit for Nitrogen Discharges* and the *Discharge Monitoring Report* was submitted electronically. There were no exceptions to the reports.

Also enclosed is a summary of sludge sources received at this facility during the month of January 2015.

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 January, 2015 | **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	6.5	3.7	5.2	0.501					2.6	0.6	188				2.4	1.1			1,548	135,420	0				
2	6.2	3.5	5.2	0.501			4,124	70	2.9	0.5	197	0.89	5,932	67	2.4	0.9	0.82	0.89	1,506	139,800	18,750				
3	6.6	3.5	5.2	0.506					2.8	0.7	176				2.3	1.0			1,506	174,648	2,500				
4	7.8	3.6	5.8	0.516					2.8	0.7	150				2.5	0.9			1,506	118,919	0				
5	6.8	4.0	5.6	0.516			4,620	76	2.9	0.7	184	0.80	5,160	72	2.6	1.1	0.77	0.80	1,361	68,205	30,000		120	110	<4
6	6.7	3.4	5.5	0.507			3,584	67	2.8	0.7	167	0.82	5,668	74	2.4	0.8	0.83	0.82	1,387	136,872	27,750		100		<4
7	7.3	4.0	5.5	0.513			4,308	67	2.7	0.7	166	0.89	5,220	77	2.6	0.9	0.91	0.89	1,506	141,660	34,500		110		<4
8	6.5	3.6	5.3	0.529			3,476	72	2.7	0.7	173	1.01	5,044	71	2.4	1.0	1.02	1.01	1,282	151,008	7,750				
9	6.1	3.8	5.3	0.533			3,652	66	3.0	0.7	178	1.00	7,420	66	2.5	1.1	1.00	1.00	846	136,932	6,750				
10	6.3	3.4	5.0	0.519					5.0	0.6	186				5.0	1.1			846	138,336	8,200				
11	6.8	3.3	5.1	0.506					2.7	0.8	182				2.5	1.0			846	154,116	0				
12	7.3	3.4	5.6	0.511			4,744	63	2.6	0.7	171	0.91	6,668	75	2.4	1.0	0.97	0.91	770	131,520	5,500		120	110	<4
13	6.3	3.5	5.2	0.508			4,160	65	2.7	0.6	212	0.99	6,740	67	2.5	1.0	1.01	0.99	838	125,264	27,250		100		<4
14	6.3	3.5	5.2	0.508			3,904	105	2.7	0.7	193	0.82	7,624	60	2.3	1.0	0.87	0.82	693	138,336	24,000		110		<4
15	6.2	3.6	5.1	0.502			5,828	74	2.7	0.5	238	0.87	6,580	81	2.4	0.9	0.93	0.87	736	138,336	40,250				
16	6.0	3.6	5.0	0.503			5,948	71	2.5	0.5	192	0.80	4,636	97	2.2	0.9	0.87	0.80	681	141,264	10,250				
17	6.2	3.1	4.8	0.506					5.0	0.7	230				5.0	0.5			681	151,008	1,250				
18	15.3	3.2	6.9	0.508					2.3	0.2	171				2.2	0.4			8,167	149,448	0				
19	8.0	1.0	6.4	0.448			5,748	61	4.3	0.2	154	0.87	6,668	70	3.5	0.0	0.94	0.87	6,255	141,264	23,500		130	83	<4
20	7.5	4.3	6.3	0.505			4,204	61	2.9	0.4	170	0.96	6,324	74	2.5	0.8	0.96	0.96	812	142,728	22,000		88		<4
21	6.6	4.0	5.6	0.505			3,560	45	2.7	0.5	199	0.95	7,416	59	2.3	1.0	1.01	0.95	804	152,904	27,000		89		<4
22	6.5	4.0	5.5	0.493			5,008	56	2.8	0.4	198	0.89	6,988	59	2.5	0.4	1.01	0.89	753	160,344	17,500				
23	6.3	3.7	5.3	0.485			7,028	55	2.7	0.5	212	1.01	8,012	59	2.7	0.9	1.05	1.01	1,718	154,116	19,250				
24	7.4	4.1	5.7	0.476					2.8	0.3	190				2.8	0.7			2,578	169,716	0				
25	7.1	3.6	5.4	0.485					2.8	0.4	207				2.4	0.5			2,578	145,608	0		120	130	<4
26	6.0	0.5	4.6	0.482			6,236	74	3.0	0.0	250	0.89	6,416	90	3.0	0.0	0.98	0.89	2,259	123,048	10,500				
27	6.2	3.7	5.0	0.561			4,628	80	2.9	0.5	222	0.87	5,760	87	2.4	0.8	1.00	0.87	1,850	124,296	0				
28	6.2	3.5	5.1	0.570			3,556	70	2.7	0.5	207	0.88	4,956	71	2.2	1.0	0.96	0.88	1,117	134,232	3,250		120		<4
29	6.2	3.4	5.0	0.513			5,288	83	5.0	0.5	212	0.90	6,016	98	5.0	1.2	0.97	0.90	1,142	139,800	18,250		82		<4
30	6.1	3.6	5.0	0.154			4,544	75	2.6	0.5	213	0.84	5,880	82	2.3	1.0	0.83	0.84	1,065	126,649	4,450				
31	6.2	3.2	5.0	0.548					2.6	0.5	228				2.6	1.4			1,065	126,084	2,000				
Total	213.5	106.3	166.5																50,701	4,311,881	392,400				
Ave.	6.9	3.4	5.4	0.497			4,674	69	3.0	0.5	194	0.89	6,244	74	2.7	0.8	0.94	0.85	1,636	139,093	12,658		107	108	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						0.00	0.00																	
2				0.0	2.1	0.00	0.00																	
3						0.00	0.00																	
4						0.00	0.00																	
5	160	53	<5	0.0	3.2	0.00	0.00						16.10	16.9	0.14	0.140	0.130	<0.010	0.51	1.55	3.360	28.20	24.60	1.470
6	200		<5	0.0	3.0	0.00	0.00						18.20		0.14	0.140		<0.010	0.52		3.880	26.40		1.580
7	230		<5	0.0	5.2	0.00	0.00						19.40		0.17	0.280		<0.010	0.07		3.600	30.00		1.740
8				0.0	2.6	0.00	0.00																	
9				0.0	1.9	0.00	0.00																	
10						0.00	0.00																	
11						0.00	0.00																	
12	200	75	<5	0.0	2.3	0.00	0.00						19.00		0.12	0.090		0.010	0.35		3.600	29.40		1.510
13	230		<5	0.0	2.3	0.00	0.00						18.50		0.16	0.100		0.010	0.40		3.510	28.90		2.040
14	150		<5	0.0	3.4	0.00	0.00						19.00		0.10	0.070		<0.010	0.01		3.350	28.40		1.620
15				0.0	2.8	0.00	0.00																	
16				0.0	2.8	0.00	0.00																	
17						0.00	0.00																	
18						0.00	0.00																	
19	540	110	8	0.0	3.5	0.00	0.00						14.80		1.47	0.160		0.030	0.03		3.180	26.00		3.350
20	190		8	0.0	6.4	0.00	0.00						16.60		0.15	0.110		<0.010	0.38		3.040	27.20		1.990
21	240		6	0.0	4.1	0.00	0.00						13.80		0.13	0.150		<0.010	0.46		2.500	17.30		1.810
22				0.0	3.3	0.00	0.00																	
23				0.0	4.2	0.00	0.00																	
24						0.00	0.00																	
25	240	110	5			0.00	0.00						18.40		0.15	0.210		<0.010	0.93		3.900	41.20		1.760
26				0.0	2.4	0.00	0.00																	
27				0.0	2.1	0.00	0.00																	
28	250		<5	0.0	3.8	0.00	0.00						19.30		0.10	0.040		0.020	<0.01		3.290	32.70		1.730
29	170		6	0.0	2.3	0.00	0.00						16.90		0.13	0.220		0.020	0.68		3.070	26.90		1.490
30				0.0	2.0	0.00	0.00																	
31						0.00	0.00																	
Total																								
Ave.	233	87	6	0.0	3.1	0.00	0.00						17.50	16.9	0.25	0.143	0.130	0.013	0.36	1.55	3.357	28.55	24.60	1.841

	Total N			Total N	Low D.O.	pH		Total P			Total P	Ortho P			Temp.		Arsenic	Copper	Nickel	Selenium	Zinc	Alkalinity	
	Inf.	Prim. Eff.	Final Eff.	Eff.	Eff.	Inf.	Eff.	Inf.	Prim. Eff.	Final Eff.	Eff.	Inf.	Prim. Eff.	Final Eff.	Inf.	Eff.	Eff.	Eff.	Eff.	Eff.	Eff.	Pri. Eff.	Eff.
Units	mg/l			lb/d	mg/l	S.U.		mg/l			lb/d	mg/l			F		mg/l	mg/l	kg/d	kg/day	kg/d		
Freq.	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		wkly	Mthly	Wkly	Wkly	Wkly		
1																							
2					8.0	7.4	6.7								57.9	66.2						80	40
3																							
4																							
5	28.9	26.3	4.8	224	8.1	7.3	6.7	3.51		6.73	317	1.38		6.05	56.7	64.6	<0.004	0.013	0.27	0.04	1.836	90	40
6	27.1		5.5	248	8.5	7.3	6.6			7.67	349			7.10	13.6	62.2						90	30
7	30.4		5.4	248	8.2	7.3	6.6								13.7	62.6						120	40
8					8.4	7.3	6.7								56.3	63.3						100	40
9					8.4	7.4	6.6								55.4	61.9						110	40
10																							
11																							
12	29.8		5.1	238	8.1	7.4	6.6			7.53	350			7.30	54.1	64.9	<0.004		0.50	0.21	2.189	80	30
13	29.4		5.6	243	7.6	7.4	6.6			7.58	329			7.45	56.7	64.9						90	40
14	28.5		5.0	217	7.7	7.4	6.6								55.2	64.0						120	40
15					8.2	7.4	6.6								54.7	63.9						100	40
16					8.0	7.5	6.6								57.4	64.6						110	30
17																							
18																							
19	26.2		6.6	352	7.3	7.4	6.8			6.51	348			6.40	54.9	63.1	<0.004		0.33	0.02	2.206	80	40
20	27.7		5.0	263	7.5	7.4	6.7			5.51	290			5.45	56.1	62.8						80	40
21	17.9		4.3	201	7.6	7.4	6.6								56.7	63.9						100	30
22					7.7	7.4	6.7								57.2	64.0						100	40
23					7.7	7.5	6.7								57.2	64.2						100	40
24																							
25	42.3		5.7	257						6.14	276			5.90			0.004		0.30	0.04	1.895		
26					7.9	7.6	6.8								55.2	67.3						100	40
27					8.4	7.4	6.8								54.5	60.8						110	60
28	32.8		5.0	213	8.1	7.5	6.6			6.62	279			6.40	56.3	61.3						100	50
29	27.8		4.6	192	8.2	7.4	6.6								55.6	61.3						120	50
30					8.3	7.4	6.6								57.2	64.0						90	40
31																							
Total																							
Ave	29.1	26.3	5.2	241	8.0	7.4	6.7	3.51		6.79	317	1.38		6.51	56.1	63.6	0.004	0.013	0.35	0.08	2.031	99	40

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: 2-6-15

January 2015 Sludge Sources

	Liquid (gal)	Wet Tons
Milbar Laboratories	5,800	
New Rochelle		2,032.00
Danbury Cake - VES		200.30
Seymour Cake - VES		145.43
Casella - Chicopee		469.41
Casella - Glen Cove		279.30
Casella - Huntington		315.36
Casella - Poughkeepsie		183.19
Casella - Suffolk		1,013.00
Casella - Yorktown Heights		43.48
Bristol		638.57
Rhinebeck WPCF		25.40
North Canaan	26,000	
Bedford Hills - VES	19,500	
North Haven - VES	123,500	
Pepsi - VES	6,500	
Poughkeepsie - VES	377,000	
Redding - VES	13,000	
Southbury - IBM	201,500	
Beacon Falls Treatment	117,000	
Heritage Village Water	52,000	
Litchfield	45,500	
Pawling	104,000	
Plymouth	65,000	
Thomaston Treatment	58,500	
Torrington	390,000	
Windham	292,500	
Mahopac Sludge & Septic	376,000	
Ansonia - Synagro	26,000	
Bridgeport - East - Synagro	55,500	
Bridgeport - West - Synagro	130,000	
New Canaan - Synagro	6,500	
Norwalk - Synagro	117,000	
Ridgefield - Synagro	20,500	
Stratford	851,500	
Lynwood Place	39,000	
Southbury Car wash	19,200	
Westport	118,255	
New Hartford	78,000	
Southington	468,000	
Total	4,202,755	5,345.44

Nutrient Analysis Report

For compliance with General Permit for Nitrogen Discharges

Facility Name: NAUGATUCK TREATMENT Co.
Permit Number: CT0100641

Month: Jan-15
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	1/5/2015	5.64	1.47	3.36	4.8	226
NAUGATUCK TRE	1/6/2015	5.45	1.58	3.88	5.5	250
NAUGATUCK TRE	1/7/2015	5.5	1.74	3.6	5.3	243
NAUGATUCK TRE	1/12/2015	5.58	1.51	3.61	5.1	237
NAUGATUCK TRE	1/13/2015	5.21	2.04	3.52	5.6	243
NAUGATUCK TRE	1/14/2015	5.24	1.62	3.35	5	219
NAUGATUCK TRE	1/19/2015	5.12	3.35	3.21	6.6	282
NAUGATUCK TRE	1/20/2015	6.32	1.99	3.04	5	264
NAUGATUCK TRE	1/21/2015	5.64	1.81	2.5	4.3	202
NAUGATUCK TRE	1/25/2015	5.39	1.76	3.9	5.7	256
NAUGATUCK TRE	1/28/2015	5.06	1.73	3.31	5	211
NAUGATUCK TRE	1/29/2015	5.03	1.49	3.09	4.6	193
					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
					0	0
					Total Pounds	2826
					Average Pounds	235.5

Date of Last Calibration of Flow Meter: 7/15/2014

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 — 2-6-15
John Balantic

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 01/01/15 to 01/31/15	**DMR Due Date:**	02/15/15	**Status:**	NetDMR 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										=	85	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															
00056	Flow rate	1 - Effluent Gross	0	--	Sample	=	5.4	=	6.9	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						=	7.3					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										=	4	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.											Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.6			=	6.8	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						=	6.6			=	6.8	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															
00400	pH	W - See Comments	0	--	Sample						=	3.6			=	3.6	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								=	5.6	=	7.5	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								=	233.3			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															
00530	Solids, total suspended	T - See Comments	0	--	Sample										=	5	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Permit Req.											Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	4	--	Sample								=	0.2			19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Permit Req.								<=	25 MO AVG			19 - mg/L		03/07 - Three Per Week	CP - COMPOS

Sent electronically 2-6-15 John Batorski

00610 Nitrogen, ammonia total [as N]	T - See Comments	0	--	Value NODI				=	0.14	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
00615 Nitrogen, nitrite total [as N]	T - See Comments	0	--	Value NODI				=	0.01	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
00620 Nitrogen, nitrate total [as N]	T - See Comments	0	--	Value NODI				=	3.83	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
00665 Phosphorus, total [as P]	T - See Comments	0	--	Value NODI					7.3	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
00720 Cyanide, total [as CN]	T - See Comments	0	--	Value NODI				=	0.01	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
00722 Cyanide, free [amen. to chlorination]	T - See Comments	0	--	Value NODI				=	0.01	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
01002 Arsenic, total [as As]	1 - Effluent Gross	0	--	Value NODI	=	0.004	Req Mon MO AVG	=	0.004	19 - mg/L	01/07 - Weekly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/07 - Weekly	CP - COMPOS
01002 Arsenic, total [as As]	G - Raw Sewage Influent	0	--	Value NODI				=	0.004	19 - mg/L	01/07 - Weekly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/07 - Weekly	CP - COMPOS
01002 Arsenic, total [as As]	S - See Comments	0	--	Value NODI				=	2.3	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Sample								
				Permit Req.					Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01002 Arsenic, total [as As]	T - See Comments	0	--	Value NODI				=	0.004	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
01002 Arsenic, total [as As]	W - See Comments	0	--	Value NODI				=	0.047	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Sample								
				Permit Req.					Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01012 Beryllium, total [as Be]	S - See Comments	0	--	Value NODI				=	0.38	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
				Sample								
				Permit Req.					Req Mon INST MAX	69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
01012 Beryllium, total [as Be]	T - See Comments	0	--	Value NODI				=	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
01012 Beryllium, total [as Be]	W - See Comments	0	--	Value NODI				=	0	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Sample								
				Permit Req.					Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
01027 Cadmium, total [as Cd]	T - See Comments	0	--	Value NODI				=	0.0001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Sample								
				Permit Req.					Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
01027 Cadmium, total [as Cd]	W - See Comments	0	--	Value NODI				=	0.01	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Sample								
				Permit Req.					Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI								

01032 Chromium, hexavalent [as Cr]	T - See Comments	0	--	Sample									=	0.01	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01034 Chromium, total [as Cr]	T - See Comments	0	--	Sample									=	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01034 Chromium, total [as Cr]	W - See Comments	0	--	Sample									=	0.017	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit Req.										Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI													
01042 Copper, total [as Cu]	1 - Effluent Gross	0	--	Sample							=	0.01	=	0.01	19 - mg/L	01/30 - Monthly	CP - COMPOS
				Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	CP - COMPOS
				Value NODI													
01042 Copper, total [as Cu]	T - See Comments	0	--	Sample									=	0.011	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01042 Copper, total [as Cu]	W - See Comments	0	--	Sample									=	1.4	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit Req.										Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI													
01045 Iron, total [as Fe]	T - See Comments	0	--	Sample									=	0.07	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01045 Iron, total [as Fe]	W - See Comments	0	--	Sample									=	8.95	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit Req.										Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI													
01051 Lead, total [as Pb]	T - See Comments	0	--	Sample									=	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01051 Lead, total [as Pb]	W - See Comments	0	--	Sample									=	0.05	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit Req.										Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI													
01059 Thallium, total [as Tl]	T - See Comments	0	--	Sample									=	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01067 Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample	=	0.35	=	0.5	01 - kg/d							01/07 - Weekly	CP - COMPOS
				Permit Req.	<=	2.14 MO AVG	<=	3.94 DAILY MX	01 - kg/d							01/07 - Weekly	CP - COMPOS
				Value NODI													
01067 Nickel, total [as Ni]	G - Raw Sewage Influent	0	--	Sample			=	1.38	01 - kg/d							01/07 - Weekly	CP - COMPOS
				Permit Req.				Req Mon DAILY MX	01 - kg/d							01/07 - Weekly	CP - COMPOS
				Value NODI													
01067 Nickel, total [as Ni]	T - See Comments	0	--	Sample									=	0.016	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
01067 Nickel, total [as Ni]	W - See Comments	0	--	Sample									=	0.05	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Permit Req.										Req Mon INST MAX	19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
				Value NODI													
01077 Silver, total [as Ag]	T - See Comments	0	--	Sample									=	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Permit Req.										Req Mon DAILY MX	19 - mg/L	01/90 - Quarterly	CP - COMPOS
				Value NODI													
				Sample	=	2.03	=	2.21	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			=	11.77	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								=	0.06	19 - mg/L		01/90 - Quarterly	CP - COMPOS
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													
				Sample								=	2.33	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								=	0.01	19 - mg/L		01/90 - Quarterly	CP - COMPOS
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													
				Sample								=	0.03	19 - mg/L		01/90 - Quarterly	CP - COMPOS
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													
				Sample								=	7.79	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	=	0.21	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	=	0.34			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								=	5.2	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								=	0	19 - mg/L		01/90 - Quarterly	CP - COMPOS
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													
				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									Req Mon INST MAX	69 - mg/kg		01/60 - Once Every 2 Months	GR - GRAB
39516 Polychlorinated biphenyls [PCBs]	S - See Comments	0	--	Permit Req.									B - Below Detection Limit/No Detection				
				Value NODI													
				Sample								=	0.02	19 - mg/L		01/90 - Quarterly	CP - COMPOS
46000 Phenols	T - See Comments	0	--	Permit Req.									Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
				Value NODI													
				Sample									Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	CP - COMPOS
50060 Chlorine, total residual	T - See Comments	0	--	Permit Req.									9 - Conditional Monitoring - Not Required This Period				
				Value NODI													
				Sample						=	24.5			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						=	19.2			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											
70322	Solids, volatile % of total solids	S - See Comments	0	–	Sample	=	80.8						23 - %	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.		Req Mon INST MIN						23 - %	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
71900	Mercury, total [as Hg]	T - See Comments	0	–	Sample					=	0.0002		19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI										
71900	Mercury, total [as Hg]	W - See Comments	0	–	Sample					=	0.0006		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		19 - mg/L	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78467	Zinc, dry weight	S - See Comments	0	–	Sample					=	598		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78468	Lead, dry weight	S - See Comments	0	–	Sample					=	57		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78469	Nickel, dry weight	S - See Comments	0	–	Sample					=	18.1		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78471	Mercury, dry weight	S - See Comments	0	–	Sample					=	0.58		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78473	Chromium, dry weight	S - See Comments	0	–	Sample					=	22.4		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78475	Copper, sludge, tot, dry weight [as Cu]	S - See Comments	0	–	Sample					=	516		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
78476	Cadmium, sludge, tot dry weight [as Cd]	S - See Comments	0	–	Sample					=	1.36		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Permit Req.						Req Mon INST MAX		69 - mg/kg	01/60 - Once Every 2 Months	GR - GRAB
					Value NODI										
80126	BOD, carbonaceous, 5 day, 5 C	1 - Effluent Gross	0	–	Sample			<	4	<	4		19 - mg/L	03/07 - Three Per Week	CP - COMPOS
					Permit Req.			<=	25 MO AVG	<=	40 DAILY MX		19 - mg/L	03/07 - Three Per Week	CP - COMPOS
					Value NODI										
80126	BOD, carbonaceous, 5 day, 5 C	G - Raw Sewage Influent	0	–	Sample			=	107.42				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										
80126	BOD, carbonaceous, 5 day, 5 C	T - See Comments	0	–	Sample					<	4		19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.						Req Mon DAILY MX		19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Value NODI										
81011	Solids, suspended percent removal	K - Percent Removal	0	–	Sample	=	97.6						23 - %	03/07 - Three Per Week	CA - CALCTD
					Permit Req.	>=	85 MN % RMV						23 - %	03/07 - Three Per Week	CA - CALCTD
					Value NODI										
81383	Carbonaceous oxygen demand, % removal	K - Percent Removal	0	–	Sample	=	96						23 - %	03/07 - Three Per Week	CA - CALCTD
					Permit Req.	>=	85 MN % RMV						23 - %	03/07 - Three Per Week	CA - CALCTD
					Value NODI										
TDA3D	Noeal Static 48Hr Acute D. Pulex	T - See Comments	0	–	Sample	=	100						2T - % survival	01/90 - Quarterly	CP - COMPOS
					Permit Req.	>=	90 MINIMUM						2T - % survival	01/90 - Quarterly	CP - COMPOS
					Value NODI										
					Sample	=	100						2T - % survival	01/90 - Quarterly	CP - COMPOS

TDA6C Neiel Static 48Hr Acute Pimephales	T - See Comments	0	-	Permit Req. Value NODI	>=	90 MINIMUM	2T - % survival	01/90 - Quarterly	CP - COMPOS

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NAUGATUCK WPCF

User: John.Batorski@Veoliawaterna.com

Name: John Batorski

E-Mail: John.Batorski@Veoliawaterna.com

Date/Time: 2015-02-06 10:18 (Time Zone: -05:00)

VEOLIA
WATER

Sent Certified R.R.R. mail #7009 2820 0004 1018 1375 on January 28, 2015

Connecticut Department of Energy and Environmental Protection
Bureau of Water Management
Aquatic Toxicity Monitoring
79 Elm Street
Hartford, CT 06106-5127

January 28, 2015

Re: Aquatic Toxicity Monitoring Report, 1st Quarter 2015

To Whom It May Concern:

Enclosed please find the Naugatuck first quarter Aquatic Toxicity Monitoring Report for 2015.

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

New England Bioassay, a Division of GZA GeoEnvironmental, Inc.
www.nebio.com

Aquatic Toxicity Monitoring Report (ATMR)
Instruction Form -Municipal

New England Bioassay
a Division of GZA GeoEnvironmental, Inc.

77 Batson Drive
Manchester, CT
06042
860-643-9560
FAX 860-646-7169

Client Name/Project: Phoenix | Naugatuck Test Date: 1/9/15

Sample ID: BH 61014

Your results were as follows:

☒ Pass

☐ Fail – **Retesting is required within 30 days.** Please proceed according to the instructions in the "Recording and Reporting of Violations" Section of your permit.

☐ Invalid – **Retesting is required within 30 days.** Please proceed according to the instructions in the "Recording and Reporting of Violations" Section of your permit.

☐ Unable to determine using the information available. Please compare results to your permit limits. Please submit a current copy of your permit to the New England Bioassay Laboratory so that we may accurately determine the status of your test results in the future and so that we can confirm that test protocols comply with your permit requirements.

Please complete the items on this bulleted list prior to submission of these data to the CTDEEP:

- Complete Part 3 of the ATMR, including the sample day's flow.
- An authorized official from your facility must sign Part 1 of the ATMR.
- Complete the facility and sample collection section at the top of all pages of the ATMR.

Please detach this instruction form and the Chain-of-Custody and keep for your records. File the complete ATMR as follows:

- The complete ATMR (Parts 1, 2, 2S and 3) must be sent to the Bureau of Water Management at the following address:

  ATTN: Municipal Wastewater Monitoring Coordinator
  Connecticut Department of Energy and Environmental Protection
  Bureau of Water Protection and Land Reuse, Planning Standards Division
  79 Elm St.
  Hartford, CT 06106-5127

- The results of chemical analyses (copied from the ATMR Part 3) and aquatic toxicity tests (Pass or Fail, not % survival) must be entered on the Discharge Monitoring Report (DMR), and the DMR must be received at the above address.

Questions? Please contact Kim Wills, Lab Manager at (860) 858-3153 or kimberly.wills@gza.com

NEW ENGLAND BIOASSAY
ATMR COVER SHEET

CLIENT:	**Phoenix Environmental Laboratories**	***D.pulex* TEST ID #:**	15-38a
ADDRESS:	587 East Middle Turnpike	***P.promelas* TEST ID #:**	15-38b
	P.O. Box 370	**COC #:**	c35-1060
	Manchester, CT 06040	**PROJECT #:**	05.0044745.00
SAMPLE:	**Naugatuck WPCF**	**RECEIVED ON:**	1/9/15

LABORATORY CONTROL WATER

NEB Lot #:	A34-S014	SRCF
Hardness:	46	mg/L as $CaCO_3$
Alkalinity:	35	mg/L as $CaCO_3$

SAMPLE COLLECTION INFORMATION

DATE(s): 1/7/15 to 1/8/15
TIME(s): 2:44 AM to 2:34 AM

INITIAL CHEMISTRY DATA				TECHNICIAN INITIALS:	CW
Color	Colorless	Temp. (°C)	6.8	Hardness (mg/L)	96
Cond. (µmhos/cm)	696	D.O.(mg/L)	8.8	Alkalinity (mg/L)	30
Salinity (ppt)	<1	pH (su)	6.6	TRC (mg/L)	<0.02

INVERTEBRATE

Test Set Up Technician Initials: MV
Test Type: Screen
Test Species: *Daphnia pulex*
Source: New England Bioassay
NEB Lot#: Dp15(1-9)
Age: <24 Hours
Test Solution Volume: 30 ml
Organisms/Test Chamber: 10
Organisms/Concentration: 50
Organisms/Control: 30
START DATE: 1/9/15 AT 1220
END DATE: 1/11/15 AT 1320

VERTEBRATE

Test Set Up Technician Initials: MV
Test Type: Screen
Test Species: *Pimephales promelas*
Source: New England Bioassay
NEB Lot#: Pp14(12-27)1410
Age: 13 (1-14)Days
Test Solution Volume: 700 ml
Organisms/Test Chamber: 10
Organisms/Concentration: 50
Organisms/Control: 30
START DATE: 1/9/15 AT 1233
END DATE: 1/11/15 AT 1333

TEST SET UP CONDUCTIVITIES

D.p Control	176	µmhos/cm	*P.p* Control	176	µmhos/cm
100%	698	µmhos/cm	100%	698	µmhos/cm

RESULTS OF *Daphnia pulex* Screening Test

Control:	100.0 %	100%	100	%
Replicate A:	100 %			
Replicate B:	100 %			
Replicate C:	100 %			

RESULTS OF *Pimephales promelas* Screening Test

Control:	100.0 %	100%	100	%
Replicate A:	100 %			
Replicate B:	100 %			
Replicate C:	100 %			

COMMENTS:

REVIEWED BY: [signature] DATE: 1/20/15

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Water Management: Aquatic Toxicity Monitoring Report - Part 1

Facility Name:	Borough of Naugatuck WPCF	NPDES ID:	CT0100641 DSN-001-1
Receiving Water:	Naugatuck River	Waterbody ID:	6900

Sample Collection Date (s): 1/7/15 to 1/8/15
Sample Collection Time (s): 2:44am to 2:34Am

TOXICITY TEST SUMMARY (PASS/FAIL)

CONTROL SAMPLE RESULTS (% SURVIVAL)

TEST SPECIES	REPLICATE 1	REPLICATE 2	REPLICATE 3
Daphnia pulex	100	100	100
Pimephales promelas	100	100	100

If less than 90% survival is recorded for one or more replicate controls, the test is invalid and an additional effluent sample must be collected and the test procedure repeated. The results for all samples must be submitted to the DEEP.

EFFLUENT SAMPLE RESULLTS (MEAN % SURVIVAL)

TEST SPECIES	100% Effluent
Daphnia pulex	100
Pimephales promelas	100

For Official Use Only

If the mean percent survival for either or both species is less than 90%, the effluent is determined toxic and an additional effluent sample must be collected and the test procedure repeated. The results for all samples must be submitted to the DEP.

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 submitted false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official: John Batorski Title: Plant Manager

Signature: [signature] Date: 1-28-15

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name:	Borough of Naugatuck WPCF	NPDES ID:	CT0100641 DSN-001-1
Dilution Water:	Soft Reconstituted Freshwater (SRCF)	Hardness:	50 ± 5
Sample Collected On:	1/8/15 (date)	Sample Received On:	1/9/15 (date)
Test Species:	*Daphnia pulex*	Source:	New England Bioassay
Test Duration:	48 hours	Beginning:	1220
		Ending:	1320
Age:	<24 hours		
On:	1/9/15 (date)		
On:	1/11/15 (date)		

Effluent Dilution (%)	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (SU)		
Tech Initials	MV	PD	KO	MV	PD	KO	MV	PD	KO	MV	PD	KO
Hour	00	24	48	00	24	48	00	24	48	00	24	48
100% A	10	10	10	8.8	8.2	9.3	21	20	20	6.8	7.4	7.5
100% B	10	10	10			9.2			20			7.5
100% C	10	10	10			9.5			19			7.6
100% D	10	10	10			9.3			19			7.6
100% E	10	10	10			9.7			19			7.6
Control 1	10	10	10	8.6	9.1	9.3	20	20	20	7.5	7.7	7.6
Control 2	10	10	10			9.5			20			7.6
Control 3	10	10	10			9.8			20			7.7

MEAN SAMPLE SURVIVAL (%)	CONTROL SURVIVAL (%)	# 1	# 2	# 3
[(A+B+C+D+E) / 5 X 10 = 100		100	100	100

REFERENCE TOXICANT RESULTS

SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC50
Daphnia pulex	1/5/15	Copper Nitrate Lot # 14-0102-019	NEB	2.72 µg/L

COMMENTS

Note: At test initiation (0 h) and 24 h, dissolved oxygen, temperature, and pH were measured in separate chemistry replicates (without daphnids); at test completion (or when complete mortality occurred within a replicate) dissolved oxygen, temperature, and pH were measured directly from replicates with the test organisms.

STATEMENT OF ACKNOWLEDGEMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the testing protocol described in EPA 600/4-90/027F and Sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies except as noted above. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Laboratory Official: Kimberly Wills, New England Bioassay — Title: Laboratory Manager

Signature: Wills — Date: 1/20/15

AQUATIC TOXICITY MONITORING REPORT (ATMR) - PART 2

Facility Name:	Borough of Naugatuck WPCF	NPDES ID:	CT0100641 DSN-001-1
Dilution Water:	Soft Reconstituted Freshwater (SRCF)	Hardness:	50 ± 5
Sample Collected On:	1/8/15 (date)	Sample Received On:	1/9/15 (date)

Test Species:	*Pimephales promelas*	Source:	New England Bioassay	Age:	13 (days)
Test Duration:	48 hours	Beginning:	1233	On:	1/9/15 (date)
		Ending:	1333	On:	1/11/15 (date)

Effluent Dilution (%)	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (SU)		
Tech Initials	MV	PD	KO	MV	PD	KO	MV	PD	KO	MV	PD	KO
Hour	00	24	48	00	24	48	00	24	48	00	24	48
100% A	10	10	10	8.8	7.4	8.4	21	20	20	6.8	7.2	7.4
100% B	10	10	10		7.2	7.8		20	20		7.2	7.4
100% C	10	10	10		7.5	8.0		20	20		7.2	7.4
100% D	10	10	10		7.2	7.6		21	21		7.2	7.3
100% E	10	10	10		7.2	7.8		21	21		7.2	7.3
Control 1	10	10	10	8.6	7.5	8.2	20	21	21	7.5	7.7	7.6
Control 2	10	10	10		7.8	8.3		20	20		7.6	7.6
Control 3	10	10	10		7.7	8.8		20	20		7.6	7.7

MEAN SAMPLE SURVIVAL (%)	CONTROL SURVIVAL (%)	# 1	# 2	# 3
∫(A+B+C+D+E) / 5 X 10 = 100		100	100	100

REFERENCE TOXICANT RESULTS

SPECIES	DATE	REFERENCE TOXICANT	SOURCE	LC50
Pimephales promelas	1/5/15	Copper Nitrate Lot # 14-0102-019	NEB	98.0 µg/L

COMMENTS

STATEMENT OF ACKNOWLEDGEMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the testing protocol described in EPA 600/4-90/027F and Sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies except as noted above. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Laboratory Official:	Kimberly Wills New England Bioassay	Title:	Laboratory Manager
Signature:	Wills	Date:	1/20/15

SUPPLEMENTAL CHEMISTRY (PART 2S)

Facility Name:	Borough of Naugatuck WPCF	NPDES ID:	CT0100641 DSN-001-1
Receiving Water:	Naugatuck River	Waterbody ID:	6900

Sample Collection Date(s): 1/7/15 to 1/8/15
Sample Collection Time(s): 2:44am to 2:34am

Effluent Sample At Arrival

Parameter		Effluent Sample
	Tech Initials	CW
	Date & Time	1/9/15 @ 0735
Temperature (° C)		6.8
pH (standard units)		6.6
Alkalinity (mg/L)		30
Conductivity (µS)		696
Hardness(mg/L)/Salinity (ppt)		96 / <1
Color		Colorless
TRC (mg/L)		<0.02

100% Test Sample

Parameter		*Daphnia pulex*		*Pimephales promelas*	
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Tech Initials		CW	KO	CW	KO
Conductivity (µS)		698	728	698	716
Alkalinity (mg/L)		30	35	30	35
Hardness (mg/L)/Salinity (ppt)		96 / <1	104 / <1	96 / <1	104 / <1
TRC (mg/L)		<0.02	<0.02	<0.02	<0.02

0% Test Sample (Control)

Parameter		*Daphnia pulex*		*Pimephales promelas*	
	Hours	Initial (00)	Final (48)	Initial (00)	Final (48)
Tech Initials		CW	KO	CW	KO
Conductivity (µS)		176	178	176	184
Alkalinity (mg/L)		35	35	35	35
Hardness (mg/L)/Salinity (ppt)		46 / < 1	46 / < 1	46 / < 1	46 / < 1
TRC (mg/L)		<0.02	<0.02	<0.02	<0.02

Laboratory Name/Official: Kimberly Wills, New England Bioassay
Title: Laboratory Manager

Signature: [signature]
Date: 1/20/15

Aquatic Toxicity Monitoring Report - PART 3

FREQUENCY	MONLOC	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Test	001 T	mg/L	CHROMIUM, Total		<0.001
Each Test	001 T	mg/L	COPPER, Total	0.005 mg/L	0.011
Each Test	001 T	mg/L	LEAD, Total	0.005 mg/L	<0.001
Each Test	001 T	mg/L	THALLIUM, Total	0.005 mg/L	<0.001
Each Test	001 T	mg/L	NICKEL, Total		0.016
Each Test	001 T	mg/L	SILVER, Total	0.002 mg/L	<0.001
Each Test	001 T	mg/L	ZINC, Total	0.020 mg/L	0.082
Each Test	001 T	mg/L	ANTIMONY, Total		<0.005
Each Test	001 T	mg/L	SELENIUM, Total	0.005 mg/L	0.003
Each Test	001 T	mg/L	PHENOLS		<0.015
Each Test	001 T	mg/L	MERCURY, Total	0.0002 mg/L	<0.0002

Testing Laboratory: Phoenix Environmental Signature: [signature] Date: 1-21-2015

FOR OFFICIAL USE ONLY:

AQUATIC TOXICITY: *Daphnia pulex* TGA3D

AQUATIC TOXICITY: *Pimephales promelas* TGA6C

Naugatuck WPCF

61014

STATE OF CONNECTICUT ** DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Water Management: Aquatic Toxicity Monitoring Report - PART 3

NPDES Permit:	CT0100641	Exp:	8/7/06	Phone1:	(203) 723-1433
Facility:	Naugatuck WPCF	Contact:	James McGrath	Phone2:	
Address:	500 Cherry Street	Town:	Naugatuck	Zip:	06770

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 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: 1-28-15 1-28-15

Sample Date: 1/7/15 to 1/8/15 Sample Day's Flow: 5.5 JAN APR JUL OCT (Circle one)

REPEAT MONTH:

FREQUENCY	MONLOC	UNITS	PARAMETER	MINIMUM LEVEL	RESULT
Each Test	001 T	mg/L	BOD, 5 DAY		<4.0
Each Test	001 T	mg/L	SUSPENDED SOLIDS, TOTAL		<5.0
Each Test	001 T	mg/L	AMMONIA, Total		0.14
Each Test	001 T	mg/L	NITRITE, as N		<0.01
Each Test	001 T	mg/L	NITRATE, as N		3.63
Each Test	001 T	mg/L	CYANIDE, Total		<0.01
Each Test	001 T	mg/L	CYANIDE, Amenable		<0.01
Each Test	001 T	mg/L	BERYLLIUM, Total	0.001 mg/L	<0.001
Each Test	001 T	mg/L	ARSENIC, Total	0.005 mg/L	<0.004
Each Test	001 T	mg/L	CADMIUM, Total	0.0005 mg/L	<0.0001
Each Test	001 T	mg/L	CHROMIUM, Hexavalent		<0.01

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]
Temp 6°C Pg of

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
[ ] Fax #:
[✓] Email: tom.deller@veolia.com

Customer: Veolia Water, NA
Address: 500 Cherry St Ext
Naugatuck, Ct 06770
Attn: Tom Deller

Project: Naugatuck
Report to: Tom Deller
Invoice to: 1st Qtr 2015 ATMR
Phone #: 203-723-1433 ext 2004
Fax #: 203-723-8539

Project P.O: 1st Qtr 2015 ATMR

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: T-Deller Date: 1-8-15

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Aquatic Toxicity	Cube	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As Is [ ] HCl	GL Amber 1000ml [ ] As Is [X] H2SO4	PL As Is [ ] 250ml [X] 500ml [X] 1000ml	PL H2SO4 [X] 250ml [X] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
61014	Effluent	WW	1/7/2015	24hr	X	X				X	X	X	X	X	

Relinquished by:	Accepted by:	Date:	Time:
T-Deller	[signature]	1-8-15	9:20
[signature]	[signature]	1-8-15	13:41

Comments, Special Requirements or Regulations:

1st Qtr 2015 ATMR

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☒ Email:

Customer: NGB
Address:

Project:
Report to: Deb L
Invoice to:

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request: Aqueous - ETPH

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Aqueous - ETPH	Code	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) 1oz	GL Soil container ( ) 1oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
	BH 60940	WW	1/8/15	7:30	X	Killingly C35-1059										
	BH 61014	WW	1/8/15	—	X	Naugatuck C35-1060										

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1/9/15	06:30
[signature]	[signature]	1/9/15	07:35

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

VEOLIA
WATER

Sent via Certified R.R.R. Mail 7009 2820 0004 1018 1382 on January 29, 2015

January 29, 2015

Connecticut Department of Energy and Environmental Protection
Mr. John Degirolamo
Bureau of Air Management
Engineering and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127

Subject: Continuous Opacity Monitoring System Summary Report, Oct 1, 2014 to Dec 31, 2014.

Dear Mr. John Degirolamo:

Enclosed you will find a copy of the above referenced reports. There were no exceptions to the attached reports.

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

Sincerely,

Veolia Water North America-Northeast, LLC

John Batorski
Project Manager

cc: James Stewart, James R. Stewart PE, LS, Director of Public Works.
(Enclosures)

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

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: October 1, 2014	To: December 31, 2014	
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		

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: January 28, 2015

Plant Signature: John Batorski 1-28-15

Print (or type) John Batorski

Name and Title: Plant Manager

Facility Name:	Borough of Naugatuck POTW		
Combustion Unit(s) Descriptions	Fluidized Bed Incinerator		
Unit Number or ID	EMU 52		
Unit Operating Hours	2073.63 hours		
Sampling Location	Fluidized Bed Incinerator Emissions Stack		
Manufacturer / Model No.	Land / 4500 Mark II	Serial No.	0095478
Date of Certification	January 12, 2005	Date of last QA audit	December 12 , 2014

Monitoring equipment malfunctions	5.98
Non-monitoring equipment malfunctions	5.27
Calibrations	7.27
Other known causes[1]	2.27
Unknown causes	
Total COM downtime	20.79 Hours
Data Availability (calculated)	99.09%

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

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: SIGNIFICANT EMISSION SUMMARY

Facility Name:	Borough of Naugatuck POTW

UNIT INFORMATION

Unit Number or ID	EMU 52	Unit Operating Hours (a)	2073.63

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

EXCEPTIONS 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

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	10/13	05:58	10/13	06:05	Excess Drift Primary Monitor	Manual recalibration	Continued Training
52	III.E.21	10/15	05:58	10/15	05:58	Excess Drift Primary Monitor	Manual recalibration	Continued Training
52	III.E.21	11/04	05:58	11/04	06:35	Excess Drift Primary Monitor	Manual recalibration	Continued Training
52	III.E.21	11/12	13:39	11/12	13:41	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has 7 day backup capabilities so no information is lost
52	III.E.21	11/19	05:58	11/19	06:09	Excess Drift Primary Monitor	Excess Drift Primary Monitor	Continued Training
52	III.E.21	12/01	17:23	12/01	22:29	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has 7 day backup capabilities so no information is lost
52	III.E.21	12/05	02:46	12/05	02:59	Primary Monitor Malfunction	Manual recalibration	It was found later in the day that Primary Monitor was calibrating but signal wasn't reaching CEMS Data log program. Connecting wires repaired
52	III.E.21	12/05	03:06	12/05	03:06	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:12	12/05	03:12	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:14	12/05	03:15	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:17	12/05	03:17	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:19	12/05	03:19	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:37	12/05	03:40	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	03:50	12/05	03:51	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	03:55	12/05	03:55	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	04:03	12/05	04:10	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	04:16	12/05	04:17	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	04:21	12/05	04:25	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	04:39	12/05	04:45	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	04:50	12/05	04:54	Excess Drift Primary Monitor	Manual recalibration	Same as above

Part 5: Monitoring and Non-Monitoring Equipment Malfunctions (continued)

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	12/05	05:02	12/05	05:06	Excess Drift Primary Monitor	Manual Recalibration	Same as above
52	III.E.21	12/05	05:11	12/05	05:28	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	05:32	12/05	05:54	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	05:58	12/05	06:12	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	06:16	12/05	06:20	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	06:24	12/05	06:24	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	06:31	12/05	06:37	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	06:38	12/05	06:38	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	06:53	12/05	06:54	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	06:59	12/05	06:59	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	07:07	12/05	07:10	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	07:22	12/05	07:37	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	07:40	12/05	07:40	Primary Monitor Malfunction	Manual recalibration	Same as above
52	III.E.21	12/05	07:44	12/05	07:47	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	07:51	12/05	08:28	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	08:32	12/05	09:07	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	09:12	12/05	09:27	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	09:31	12/05	09:37	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	09:41	12/05	10:26	Excess Drift Primary Monitor	Manual recalibration	Same as above
52	III.E.21	12/05	10:27	12/05	10:27	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has 7 day backup capabilities so no information is lost
52	III.E.21	12/09	08:09	12/09	08:13	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has 7 day backup capabilities so no information is lost
52	III.E.21							

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					No Incident Occured			

Continuous Opacty Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:31
PERIOD: 10/01/2014 - 12/31/2014

INCIDENT: HI 1-HR OPACITY (%)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
10/01/2014	NO	INCIDENT	OCCURRED							
10/02/2014	NO	INCIDENT	OCCURRED							
10/03/2014	NO	INCIDENT	OCCURRED							
10/04/2014	NO	INCIDENT	OCCURRED							
10/05/2014	NO	INCIDENT	OCCURRED							
10/06/2014	NO	INCIDENT	OCCURRED							
10/07/2014	NO	INCIDENT	OCCURRED							
10/08/2014	NO	INCIDENT	OCCURRED							
10/09/2014	NO	INCIDENT	OCCURRED							
10/10/2014	NO	INCIDENT	OCCURRED							
10/11/2014	NO	INCIDENT	OCCURRED							
10/12/2014	NO	INCIDENT	OCCURRED							
10/13/2014	NO	INCIDENT	OCCURRED							
10/14/2014	NO	INCIDENT	OCCURRED							
10/15/2014	NO	INCIDENT	OCCURRED							
10/16/2014	NO	INCIDENT	OCCURRED							
10/17/2014	NO	INCIDENT	OCCURRED							
10/18/2014	NO	INCIDENT	OCCURRED							
10/19/2014	NO	INCIDENT	OCCURRED							
10/20/2014	NO	INCIDENT	OCCURRED							
10/21/2014	NO	INCIDENT	OCCURRED							
10/22/2014	NO	INCIDENT	OCCURRED							
10/23/2014	NO	INCIDENT	OCCURRED							
10/24/2014	NO	INCIDENT	OCCURRED							
10/25/2014	NO	INCIDENT	OCCURRED							
10/26/2014	NO	INCIDENT	OCCURRED							
10/27/2014	NO	INCIDENT	OCCURRED							
10/28/2014	NO	INCIDENT	OCCURRED							
10/29/2014	NO	INCIDENT	OCCURRED							
10/30/2014	NO	INCIDENT	OCCURRED							
10/31/2014	NO	INCIDENT	OCCURRED							
11/01/2014	NO	INCIDENT	OCCURRED							
11/02/2014	NO	INCIDENT	OCCURRED							
11/03/2014	NO	INCIDENT	OCCURRED							
11/04/2014	NO	INCIDENT	OCCURRED							
11/05/2014	NO	INCIDENT	OCCURRED							
11/06/2014	NO	INCIDENT	OCCURRED							
11/07/2014	NO	INCIDENT	OCCURRED							
11/08/2014	NO	INCIDENT	OCCURRED							
11/09/2014	NO	INCIDENT	OCCURRED							
11/10/2014	NO	INCIDENT	OCCURRED							
11/11/2014	NO	INCIDENT	OCCURRED							
11/12/2014	NO	INCIDENT	OCCURRED							
11/13/2014	NO	INCIDENT	OCCURRED							
11/14/2014	NO	INCIDENT	OCCURRED							
11/15/2014	NO	INCIDENT	OCCURRED							
11/16/2014	NO	INCIDENT	OCCURRED							
11/17/2014	NO	INCIDENT	OCCURRED							
11/18/2014	NO	INCIDENT	OCCURRED							
11/19/2014	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
11/20/2014	NO	INCIDENT	OCCURRED							
11/21/2014	NO	INCIDENT	OCCURRED							
11/22/2014	NO	INCIDENT	OCCURRED							
11/23/2014	NO	INCIDENT	OCCURRED							
11/24/2014	NO	INCIDENT	OCCURRED							
11/25/2014	NO	INCIDENT	OCCURRED							
11/26/2014	NO	INCIDENT	OCCURRED							
11/27/2014	NO	INCIDENT	OCCURRED							
11/28/2014	NO	INCIDENT	OCCURRED							
11/29/2014	NO	INCIDENT	OCCURRED							
11/30/2014	NO	INCIDENT	OCCURRED							
12/01/2014	NO	INCIDENT	OCCURRED							
12/02/2014	NO	INCIDENT	OCCURRED							
12/03/2014	NO	INCIDENT	OCCURRED							
12/04/2014	NO	INCIDENT	OCCURRED							
12/05/2014	NO	INCIDENT	OCCURRED							
12/06/2014	NO	INCIDENT	OCCURRED							
12/07/2014	NO	INCIDENT	OCCURRED							
12/08/2014	NO	INCIDENT	OCCURRED							
12/09/2014	NO	INCIDENT	OCCURRED							
12/10/2014	NO	INCIDENT	OCCURRED							
12/11/2014	NO	INCIDENT	OCCURRED							
12/12/2014	NO	INCIDENT	OCCURRED							
12/13/2014	NO	INCIDENT	OCCURRED							
12/14/2014	NO	INCIDENT	OCCURRED							
12/15/2014	NO	INCIDENT	OCCURRED							
12/16/2014	NO	INCIDENT	OCCURRED							
12/17/2014	NO	INCIDENT	OCCURRED							
12/18/2014	NO	INCIDENT	OCCURRED							
12/19/2014	NO	INCIDENT	OCCURRED							
12/20/2014	NO	INCIDENT	OCCURRED							
12/21/2014	NO	INCIDENT	OCCURRED							
12/22/2014	NO	INCIDENT	OCCURRED							
12/23/2014	NO	INCIDENT	OCCURRED							
12/24/2014	NO	INCIDENT	OCCURRED							
12/25/2014	NO	INCIDENT	OCCURRED							
12/26/2014	NO	INCIDENT	OCCURRED							
12/27/2014	NO	INCIDENT	OCCURRED							
12/28/2014	NO	INCIDENT	OCCURRED							
12/29/2014	NO	INCIDENT	OCCURRED							
12/30/2014	NO	INCIDENT	OCCURRED							
12/31/2014	NO	INCIDENT	OCCURRED							

Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:25
PERIOD: 10/01/2014 - 12/31/2014

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
10/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/01/2014	08:15	08:59	45	13	PROCESS DOWN	N/A
10/01/2014	13:30	13:44	15	13	PROCESS DOWN	N/A
10/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/03/2014	07:34	07:36	3	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
10/04/2014	05:30	06:29	60	13	PROCESS DOWN	N/A
10/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/07/2014	06:19	06:31	13	13	PROCESS DOWN	N/A
10/07/2014	07:26	07:42	17	13	PROCESS DOWN	N/A
10/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/11/2014	17:13	17:27	15	13	PROCESS DOWN	N/A
10/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/13/2014	05:58	06:05	8	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
10/13/2014	06:06	06:08	3	14	RECALIBRATION	N/A
10/13/2014	10:58	23:59	782	13	PROCESS DOWN	N/A
10/14/2014	00:00	02:41	162	13	PROCESS DOWN	N/A
10/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/14/2014	23:02	23:28	27	13	PROCESS DOWN	N/A
10/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/15/2014	05:58	05:58	1	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
10/15/2014	05:59	06:01	3	14	RECALIBRATION	N/A
10/15/2014	07:10	11:26	257	13	PROCESS DOWN	N/A
10/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/16/2014	16:52	16:53	2	13	PROCESS DOWN	N/A
10/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/17/2014	07:44	07:47	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
10/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/22/2014	11:03	11:21	19	13	PROCESS DOWN	N/A
10/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/25/2014	06:57	07:21	25	13	PROCESS DOWN	N/A
10/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/31/2014	07:29	07:32	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
11/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
11/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/04/2014	05:58	06:35	38	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
11/04/2014	06:36	06:39	4	14	RECALIBRATION	N/A
11/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/09/2014	13:15	23:59	645	13	PROCESS DOWN	N/A
11/10/2014	00:00	23:59	1440	13	PROCESS DOWN	N/A
11/11/2014	00:00	02:57	178	13	PROCESS DOWN	N/A
11/11/2014	04:20	05:12	53	13	PROCESS DOWN	N/A
11/11/2014	05:24	05:30	7	13	PROCESS DOWN	N/A
11/11/2014	05:52	06:02	11	13	PROCESS DOWN	N/A
11/11/2014	13:05	13:23	19	13	PROCESS DOWN	N/A
11/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/12/2014	13:39	13:41	3	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
11/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/14/2014	08:50	08:53	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
11/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/19/2014	05:58	06:09	12	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
11/19/2014	06:10	06:12	3	14	RECALIBRATION	N/A
11/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/20/2014	13:20	13:37	18	13	PROCESS DOWN	N/A
11/20/2014	23:52	23:59	8	13	PROCESS DOWN	N/A
11/21/2014	00:00	01:36	97	13	PROCESS DOWN	N/A
11/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/26/2014	06:02	06:31	30	13	PROCESS DOWN	N/A
11/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/27/2014	16:18	16:32	15	13	PROCESS DOWN	N/A
11/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/01/2014	08:32	15:20	409	13	PROCESS DOWN	N/A
12/01/2014	17:23	22:29	307	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
12/01/2014	22:39	23:59	81	13	PROCESS DOWN	N/A
12/02/2014	00:00	00:38	39	13	PROCESS DOWN	N/A
12/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/05/2014	02:46	02:59	14	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:00	03:05	6	14	RECALIBRATION	N/A
12/05/2014	03:06	03:06	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:07	03:11	5	14	RECALIBRATION	N/A
12/05/2014	03:12	03:12	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:13	03:13	1	14	RECALIBRATION	N/A
12/05/2014	03:14	03:15	2	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
12/05/2014	03:16	03:16	1	14	RECALIBRATION	N/A
12/05/2014	03:17	03:17	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:18	03:18	1	14	RECALIBRATION	N/A
12/05/2014	03:19	03:19	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:20	03:23	4	14	RECALIBRATION	N/A
12/05/2014	03:33	03:36	4	14	RECALIBRATION	N/A
12/05/2014	03:37	03:40	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	03:41	03:49	9	14	RECALIBRATION	N/A
12/05/2014	03:50	03:51	2	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:52	03:54	3	14	RECALIBRATION	N/A
12/05/2014	03:55	03:55	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:56	04:02	7	14	RECALIBRATION	N/A
12/05/2014	04:03	04:10	8	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:11	04:15	5	14	RECALIBRATION	N/A
12/05/2014	04:16	04:17	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:18	04:20	3	14	RECALIBRATION	N/A
12/05/2014	04:21	04:25	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:26	04:38	13	14	RECALIBRATION	N/A
12/05/2014	04:39	04:45	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:46	04:49	4	14	RECALIBRATION	N/A
12/05/2014	04:50	04:54	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:55	05:01	7	14	RECALIBRATION	N/A
12/05/2014	05:02	05:06	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:07	05:10	4	14	RECALIBRATION	N/A
12/05/2014	05:11	05:28	18	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:29	05:31	3	14	RECALIBRATION	N/A
12/05/2014	05:32	05:54	23	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/05/2014	05:58	06:12	15	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:13	06:15	3	14	RECALIBRATION	N/A
12/05/2014	06:16	06:20	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:21	06:23	3	14	RECALIBRATION	N/A
12/05/2014	06:24	06:24	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	06:25	06:30	6	14	RECALIBRATION	N/A
12/05/2014	06:31	06:37	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:38	06:38	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	06:39	06:52	14	14	RECALIBRATION	N/A
12/05/2014	06:53	06:54	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:55	06:58	4	14	RECALIBRATION	N/A
12/05/2014	06:59	06:59	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	07:00	07:06	1	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/05/2014	07:01	07:06	6	14	RECALIBRATION	N/A
12/05/2014	07:07	07:10	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:11	07:21	11	14	RECALIBRATION	N/A
12/05/2014	07:22	07:37	16	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:38	07:39	2	14	RECALIBRATION	N/A
12/05/2014	07:40	07:40	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	07:41	07:43	3	14	RECALIBRATION	N/A
12/05/2014	07:44	07:47	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:48	07:50	3	14	RECALIBRATION	N/A
12/05/2014	07:51	08:28	38	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	08:29	08:31	3	14	RECALIBRATION	N/A
12/05/2014	08:32	09:07	36	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:08	09:11	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/05/2014	09:12	09:27	16	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:28	09:30	3	14	RECALIBRATION	N/A
12/05/2014	09:31	09:37	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:38	09:40	3	14	RECALIBRATION	N/A
12/05/2014	09:41	10:26	46	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	10:27	10:27	1	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
12/05/2014	10:28	10:30	3	14	RECALIBRATION	N/A
12/05/2014	10:33	10:36	4	14	RECALIBRATION	N/A
12/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/06/2014	07:25	07:39	15	13	PROCESS DOWN	N/A
12/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/08/2014	08:24	08:38	15	13	PROCESS DOWN	N/A
12/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/09/2014	08:09	08:13	5	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
12/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/11/2014	04:08	04:10	3	14	RECALIBRATION	N/A
12/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/12/2014	08:20	10:11	112	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/12/2014	10:12	10:16	5	14	RECALIBRATION	N/A
12/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/15/2014	23:35	23:59	25	13	PROCESS DOWN	N/A
12/16/2014	00:00	00:58	59	13	PROCESS DOWN	N/A
12/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/19/2014	07:42	07:49	8	13	PROCESS DOWN	N/A
12/19/2014	09:09	09:12	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/19/2014	14:41	14:49	9	13	PROCESS DOWN	N/A
12/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/22/2014	12:50	23:59	670	13	PROCESS DOWN	N/A
12/23/2014	00:00	01:20	81	13	PROCESS DOWN	N/A
12/23/2014	02:21	02:50	30	13	PROCESS DOWN	N/A
12/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/26/2014	00:11	11:55	705	13	PROCESS DOWN	N/A
12/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/29/2014	08:11	23:59	949	13	PROCESS DOWN	N/A
12/30/2014	00:00	01:55	116	13	PROCESS DOWN	N/A
12/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
11	5.53	3.94	EXCESS DRIFT PRIMARY MONITOR
13	119.52	85.19	PROCESS DOWN
14	7.27	5.18	RECALIBRATION
16	0.45	0.32	PRIMARY MONITOR MALFUNCTION
18	5.27	3.75	DATA HANDLING SYSTEM MALFUNCTION
20	2.27	1.62	CORRECTIVE MAINTENANCE

20.79

TOTAL HOURS: 140.30

92 days in Q4 = 2208
− 119.52
2088.48

$\frac{2088.48 - 20.79}{2088.48} \times 100 \rightarrow 99.08\%$

CO @7% AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:20
PERIOD: 10/01/2014 - 12/31/2014

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
10/01/2014	23.00	35.7	0.00
10/02/2014	24.00	26.7	0.00
10/03/2014	24.00	13.3	0.00
10/04/2014	23.00	18.2	0.00
10/05/2014	24.00	7.5	0.00
10/06/2014	24.00	14.3	0.00
10/07/2014	23.50	15.1	0.00
10/08/2014	24.00	31.3	0.00
10/09/2014	24.00	32.5	0.00
10/10/2014	24.00	45.1	0.00
10/11/2014	23.75	47.7	0.00
10/12/2014	24.00	47.8	0.00
10/13/2014	10.97	43.1	0.00
10/14/2014	20.85	36.7	0.00
10/15/2014	19.72	50.2	0.00
10/16/2014	23.97	43.6	0.00
10/17/2014	24.00	41.2	0.00
10/18/2014	24.00	50.5	0.00
10/19/2014	24.00	49.6	0.00
10/20/2014	24.00	47.6	0.00
10/21/2014	24.00	38.3	0.00
10/22/2014	23.68	68.4	0.00
10/23/2014	24.00	40.3	0.00
10/24/2014	24.00	63.6	0.00
10/25/2014	23.58	58.6	0.00
10/26/2014	24.00	31.2	0.00
10/27/2014	24.00	28.8	0.00
10/28/2014	24.00	21.7	0.00
10/29/2014	24.00	28.0	0.00
10/30/2014	24.00	39.8	0.00
10/31/2014	24.00	53.3	0.00
11/01/2014	24.00	45.7	0.00
11/02/2014	24.00	64.4	0.00
11/03/2014	24.00	52.5	0.00
11/04/2014	24.00	45.7	0.00
11/05/2014	24.00	44.7	0.00
11/06/2014	24.00	45.0	0.00
11/07/2014	24.00	44.9	0.00
11/08/2014	24.00	56.2	0.00
11/09/2014	13.25	32.8	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
11/10/2014	0.00	OFF	0.00
11/11/2014	19.53	42.8	0.00
11/12/2014	23.33	39.6	0.00
11/13/2014	24.00	44.8	0.00
11/14/2014	24.00	44.8	0.00
11/15/2014	24.00	55.1	0.00
11/16/2014	24.00	40.8	0.00
11/17/2014	24.00	45.4	0.00
11/18/2014	24.00	31.0	0.00
11/19/2014	24.00	39.9	0.00
11/20/2014	23.57	40.3	0.00
11/21/2014	22.38	56.4	0.00
11/22/2014	24.00	53.2	0.00
11/23/2014	24.00	40.1	0.00
11/24/2014	24.00	47.7	0.00
11/25/2014	24.00	37.8	0.00
11/26/2014	21.50	47.0	0.00
11/27/2014	23.75	42.0	0.00
11/28/2014	24.00	46.7	0.00
11/29/2014	24.00	53.1	0.00
11/30/2014	24.00	37.3	0.00
12/01/2014	10.40	83.8	5.07
12/02/2014	23.35	46.6	0.00
12/03/2014	24.00	51.4	0.00
12/04/2014	24.00	50.7	0.00
12/05/2014	24.00	41.6	0.00
12/06/2014	23.75	50.8	0.00
12/07/2014	24.00	57.8	0.00
12/08/2014	23.75	64.8	0.00
12/09/2014	23.83	43.8	0.03
12/10/2014	24.00	47.9	0.00
12/11/2014	24.00	49.5	0.00
12/12/2014	24.00	55.8	0.00
12/13/2014	24.00	54.1	0.00
12/14/2014	24.00	62.5	0.00
12/15/2014	17.00	63.1	0.00
12/16/2014	23.02	55.3	0.00
12/17/2014	24.00	58.1	0.00
12/18/2014	24.00	37.2	0.00
12/19/2014	23.72	42.3	0.00
12/20/2014	24.00	44.3	0.00
12/21/2014	24.00	42.6	0.00
12/22/2014	12.83	36.0	0.00
12/23/2014	22.15	49.6	0.00
12/24/2014	24.00	96.4	0.00
12/25/2014	24.00	28.1	0.00
12/26/2014	12.25	44.4	0.00
12/27/2014	24.00	42.3	0.00
12/28/2014	24.00	29.5	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
12/29/2014	8.18	23.9	0.00
12/30/2014	22.07	46.3	0.00
12/31/2014	24.00	46.2	0.00

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		44.3	
TOTAL	2073.63		5.10
AVAILABILITY		98.43	

VEOLIA
WATER

Sent via Certified R.R.R. Mail 7009 2820 0004 1018 1405 on January 29, 2015

January 29, 2015

Connecticut Department of Energy and Environmental Protection
Mr. John Degirolamo
Bureau of Air Management
Engineering and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127

Subject: Continuous Opacity Monitoring System Summary Report, July 1, 2014 to September 30, 2014 – **minor correction**

Dear Mr. John Degirolamo:

Enclosed you will find an original and a corrected copy of the above referenced report. During preparation of 2014 annual reports we noticed some minor errors. I numbered each of the pages (original and corrected reports) to more easily follow the corrections.
On page 3, Monitor Data Availability, Monitoring Equipment Malfunctions, the original total was 1.38, it was corrected to 7.91. Basically, excess drift (6.53) was incorrectly added in the original submission. The corrected report indicates the correct data. Those errors were simply human error.
On page 15, Sept 1, 2014 there was a *Source On* error. Originally it was 22.85 hours. It should have been 17.77 hours. A sludge cake pump that was off was incorrectly counted as on. The CO defaulted to a high number which gave the 140.1 average value which was not correct. We have since corrected this issue in operating software. In 2014 we updated the CEM software to the latest Windows version which is why the format of the reports appears a bit different from previous reports.
Please contact me if you have any questions regarding the enclosed reports.

Sincerely,

Veolia Water North America-Northeast, LLC
John Batorski
Project Manager
cc: James Stewart, James R. Stewart PE, LS, Director of Public Works.
(Enclosures)

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

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REVISED

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

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: July 1, 2014	To: September 30, 2014	
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		

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: January 28, 2015

Plant Signature: John Batorski

Print (or type) John Batorski

Name and Title: Plant Manager.

only change is date of revision

2 sections revised.

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Facility Name:	Borough of Naugatuck POTW		
Combustion Unit(s) Descriptions	Fluidized Bed Incinerator		
Unit Number or ID	EMU 52		
Unit Operating Hours	1981.63 hours		
Sampling Location	Fluidized Bed Incinerator Emissions Stack		
Manufacturer / Model No.	Land / 4500 Mark II	Serial No.	0095478
Date of Certification	January 12, 2005	Date of last QA audit	June 18, 2014
Monitoring equipment malfunctions	7.91 - revised - original was 1.38		
Non-monitoring equipment malfunctions	32.77		
Calibrations	4.83		
Other known causes[1]			
Unknown causes	2.98 - revised - (due to software error)		
Total COM downtime	48.49 Hours		
Data Availability (calculated)	97.6% (rounding) - original was 97.5%		

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

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.

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PART 7: SECTION 7.2 COMS REPORT SUMMARY FORM

Facility Name:	Borough of Naugatuck POTW

GENERAL INFORMATION

Unit Number or ID	EMU 52	Unit Operating Hours (a)	1981.63

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

DURATION OF EXCESS EMISSIONS

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

not in original submission - error as nothing to report.

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	07/08	05:55	07/08	05:59	Excess Drift Primary Monitor	Manual Recalibration	Continued Training
52	III.E.21	07/08	12:45	07/08	13:53	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	08/01	13:54	08/01	13:57	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/05	10:12	08/05	10:19	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/14	00:00	08/14	23:59	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/19	06:30	08/19	06:33	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/19	06:34	08/19	06:59	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	08/19	10:00	08/19	10:49	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	09/02	07:29	09/02	07:32	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/02	13:11	09/02	13:32	Excess Drift Primary Monitor	Manual Recalibration	Continued Training
52	III.E.21	09/03	12:19	09/03	13:46	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/11	09:01	09/11	11:59	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/21	03:42	09/21	05:04	Primary Monitor Malfunction	Corrective actions taken	Continued Training
52	III.E.21	09/23	05:58	09/23	06:28	Excess Drift Primary Monitor	Manual Recalibration	Continued Training

Part 5: Monitoring and Non-Monitoring Equipment Malfunctions (continued)

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	09/23	06:32	09/23	07:42	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	09/27	05:58	09/27	07:58	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21							
52	III.E.21							
52	III.E.21							
52	III.E.21							

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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					No Incident Occured			

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Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/28/2015 @ 11:50 - reprinted
PERIOD: 07/01/2014 - 09/30/2014

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/01/2014	03:45	12:59	555	13	PROCESS DOWN	N/A
07/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/05/2014	00:00	16:59	1020	13	PROCESS DOWN	N/A
07/06/2014	00:00	00:14	15	13	PROCESS DOWN	N/A
07/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/06/2014	15:15	15:29	15	13	PROCESS DOWN	N/A
07/06/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/07/2014	00:00	06:29	390	13	PROCESS DOWN	N/A
07/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/08/2014	05:58	05:59	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	06:00	12:44	405	13	PROCESS DOWN	N/A
07/08/2014	12:45	13:53	69	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	13:54	13:56	3	14	RECALIBRATION	N/A
07/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/09/2014	12:30	12:59	30	13	PROCESS DOWN	N/A
07/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/11/2014	02:45	06:59	255	13	PROCESS DOWN	N/A
07/11/2014	07:14	07:17	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/14/2014	00:31	07:29	419	13	PROCESS DOWN	N/A
07/14/2014	13:00	15:08	129	13	PROCESS DOWN	N/A
07/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	07:36	07:38	3	14	RECALIBRATION	N/A
07/17/2014	07:54	09:08	75	13	PROCESS DOWN	N/A
07/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	07:40	11:54	255	13	PROCESS DOWN	N/A
07/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	06:24	10:48	265	13	PROCESS DOWN	N/A
07/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	06:55	07:03	9	13	PROCESS DOWN	N/A
07/25/2014	07:04	07:08	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/25/2014	07:09	07:24	16	13	PROCESS DOWN	N/A
07/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	09:17	12:54	218	13	PROCESS DOWN	N/A
07/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/30/2014	07:06	08:29	84	13	PROCESS DOWN	N/A
07/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/31/2014	06:53	07:12	20	13	PROCESS DOWN	N/A
08/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/01/2014	13:54	13:57	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/05/2014	03:44	10:11	388	13	PROCESS DOWN	N/A
08/05/2014	10:12	10:19	8	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/05/2014	10:20	12:18	119	13	PROCESS DOWN	N/A
08/05/2014	13:12	13:26	15	13	PROCESS DOWN	N/A
08/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	07:26	07:29	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/14/2014	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/15/2014	09:04	09:11	8	13	PROCESS DOWN	N/A
08/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/18/2014	04:57	13:56	540	13	PROCESS DOWN	N/A
08/19/2014	02:40	03:00	21	13	PROCESS DOWN	N/A
08/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/19/2014	06:30	06:33	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/19/2014	06:34	06:59	26	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	07:00	09:59	180	13	PROCESS DOWN	N/A
08/19/2014	10:00	10:49	50	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	10:50	10:52	3	14	RECALIBRATION	N/A
08/19/2014	19:00	19:14	15	13	PROCESS DOWN	N/A
08/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/20/2014	07:00	11:59	300	13	PROCESS DOWN	N/A
08/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	08:56	08:58	3	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/23/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/24/2014	04:20	11:50	451	13	PROCESS DOWN	N/A
08/25/2014	02:28	11:24	537	13	PROCESS DOWN	N/A
08/26/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/26/2014	09:23	16:29	427	13	PROCESS DOWN	N/A
08/27/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/27/2014	09:33	14:12	280	13	PROCESS DOWN	N/A
08/27/2014	14:51	14:57	7	14	RECALIBRATION	N/A
08/28/2014	06:46	13:23	398	13	PROCESS DOWN	N/A
08/28/2014	13:48	13:48	1	13	PROCESS DOWN	N/A
08/29/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/29/2014	07:03	09:24	142	13	PROCESS DOWN	N/A
08/30/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/31/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	22:51	23:59	69	13	PROCESS DOWN	N/A
09/02/2014	00:00	07:28	449	13	PROCESS DOWN	N/A
09/02/2014	07:29	07:32	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/02/2014	07:33	13:10	338	13	PROCESS DOWN	N/A
09/02/2014	13:11	13:32	22	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/02/2014	13:33	13:35	3	14	RECALIBRATION	N/A
09/03/2014	06:54	06:57	4	14	RECALIBRATION	N/A

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DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/03/2014	08:17	12:18	242	13	PROCESS DOWN	N/A
09/03/2014	12:19	13:46	88	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/03/2014	13:47	14:02	16	13	PROCESS DOWN	N/A
09/04/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/04/2014	09:34	13:32	239	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/05/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/05/2014	08:56	08:59	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/06/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/07/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/08/2014	06:15	12:59	405	13	PROCESS DOWN	N/A
09/08/2014	13:32	13:37	6	13	PROCESS DOWN	N/A
09/08/2014	15:04	16:16	73	13	PROCESS DOWN	N/A
09/09/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/09/2014	17:28	17:42	15	13	PROCESS DOWN	N/A
09/10/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	04:43	05:12	30	13	PROCESS DOWN	N/A
09/11/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	09:01	11:59	179	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/12/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/13/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/14/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/15/2014	06:43	12:15	333	13	PROCESS DOWN	N/A
09/15/2014	22:38	23:59	82	13	PROCESS DOWN	N/A
09/16/2014	00:00	04:06	247	13	PROCESS DOWN	N/A
09/16/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/16/2014	13:39	13:48	10	13	PROCESS DOWN	N/A
09/16/2014	18:19	21:49	211	13	PROCESS DOWN	N/A
09/17/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/17/2014	23:05	23:59	55	13	PROCESS DOWN	N/A
09/18/2014	00:00	03:19	200	13	PROCESS DOWN	N/A
09/18/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/18/2014	08:05	08:51	47	13	PROCESS DOWN	N/A
09/18/2014	08:55	09:04	10	13	PROCESS DOWN	N/A
09/19/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/19/2014	08:10	08:13	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	08:57	11:25	149	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	11:26	11:26	1	14	RECALIBRATION	N/A
09/19/2014	11:27	11:32	6	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/20/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/21/2014	03:42	05:04	83	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
09/21/2014	05:05	05:07	3	14	RECALIBRATION	N/A
09/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/21/2014	09:06	09:20	15	13	PROCESS DOWN	N/A
09/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/22/2014	09:20	09:34	15	13	PROCESS DOWN	N/A
09/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/23/2014	05:58	06:28	31	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	06:29	06:31	3	14	RECALIBRATION	N/A
09/23/2014	06:32	07:42	71	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	07:43	07:45	3	14	RECALIBRATION	N/A
09/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:58	07:58	121	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/27/2014	07:59	08:02	4	14	RECALIBRATION	N/A
09/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	07:33	10:43	191	13	PROCESS DOWN	N/A
09/29/2014	11:44	11:58	15	13	PROCESS DOWN	N/A

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DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
11	6.53	2.69	EXCESS DRIFT PRIMARY MONITOR
13	194.52	80.04	PROCESS DOWN
14	4.83	1.99	RECALIBRATION
16	1.38	0.57	PRIMARY MONITOR MALFUNCTION
18	32.77	13.48	DATA HANDLING SYSTEM MALFUNCTION
20	2.98	1.23	CORRECTIVE MAINTENANCE

48.49

TOTAL HOURS: 243.02

92 days in Q3 2014 = 2208
- 194.52
2013.48

$$\frac{2013.48 - 48.49}{2013.48} \times 100 = 97.6$$

rounding – original was 97.5%

11

OPACITY AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/28/2015 @ 11:51 - new print date
PERIOD: 07/01/2014 - 09/30/2014

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
07/01/2014	14.75	3.83	0.00
07/02/2014	24.00	3.76	0.00
07/03/2014	24.00	3.49	0.00
07/04/2014	19.00	3.31	0.00
07/05/2014	7.00	3.15	0.00
07/06/2014	18.50	3.69	0.00
07/07/2014	17.50	3.79	0.00
07/08/2014	17.25	3.55	0.00
07/09/2014	23.50	3.43	0.00
07/10/2014	24.00	3.40	0.00
07/11/2014	19.75	3.91	0.00
07/12/2014	24.00	3.85	0.00
07/13/2014	24.00	3.92	0.00
07/14/2014	14.87	3.34	0.00
07/15/2014	24.00	3.61	0.00
07/16/2014	24.00	3.38	0.00
07/17/2014	22.75	3.37	0.00
07/18/2014	24.00	3.67	0.00
07/19/2014	24.00	3.57	0.00
07/20/2014	24.00	3.73	0.00
07/21/2014	19.75	3.69	0.00
07/22/2014	24.00	3.88	0.00
07/23/2014	19.58	3.81	0.00
07/24/2014	24.00	3.50	0.00
07/25/2014	23.50	3.65	0.00
07/26/2014	24.00	3.61	0.00
07/27/2014	24.00	3.67	0.00
07/28/2014	24.00	3.61	0.00
07/29/2014	20.37	3.30	0.00
07/30/2014	22.60	3.72	0.00
07/31/2014	23.67	3.91	0.00
08/01/2014	24.00	3.75	0.07
08/02/2014	24.00	3.39	0.00
08/03/2014	24.00	3.38	0.00
08/04/2014	24.00	3.61	0.00
08/05/2014	15.17	3.80	0.13
08/06/2014	24.00	3.72	0.00
08/07/2014	24.00	3.74	0.00
08/08/2014	24.00	3.87	0.00
08/09/2014	24.00	3.83	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
08/10/2014	24.00	3.90	0.00
08/11/2014	24.00	3.96	0.00
08/12/2014	24.00	4.00	0.00
08/13/2014	24.00	3.72	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	3.42	0.00
08/16/2014	24.00	3.57	0.00
08/17/2014	24.00	3.41	0.00
08/18/2014	15.00	3.50	0.00
08/19/2014	20.38	3.79	0.07
08/20/2014	19.00	3.62	0.00
08/21/2014	24.00	3.67	0.00
08/22/2014	23.00	3.42	0.00
08/23/2014	24.00	3.20	0.00
08/24/2014	16.48	3.06	0.00
08/25/2014	15.05	3.84	0.00
08/26/2014	16.88	3.52	0.00
08/27/2014	19.33	3.25	0.00
08/28/2014	17.35	3.09	0.00
08/29/2014	21.63	3.51	0.00
08/30/2014	24.00	3.30	0.00
08/31/2014	24.00	3.24	0.00
09/01/2014	17.77	3.01	0.00
09/02/2014	10.82	3.57	0.07
09/03/2014	18.23	3.02	1.47
09/04/2014	24.00	3.59	3.98
09/05/2014	24.00	3.82	0.00
09/06/2014	24.00	3.62	0.00
09/07/2014	24.00	3.08	0.00
09/08/2014	15.93	3.36	0.00
09/09/2014	23.75	3.61	0.00
09/10/2014	24.00	3.79	0.00
09/11/2014	23.50	3.87	2.97
09/12/2014	24.00	3.82	0.00
09/13/2014	24.00	3.59	0.00
09/14/2014	24.00	3.25	0.00
09/15/2014	17.08	3.80	0.00
09/16/2014	16.20	3.72	0.00
09/17/2014	23.08	3.86	0.00
09/18/2014	19.72	3.98	0.00
09/19/2014	24.00	3.40	0.00
09/20/2014	24.00	3.38	0.00
09/21/2014	23.75	3.00	0.00
09/22/2014	23.75	3.00	0.00
09/23/2014	24.00	2.37	0.00
09/24/2014	24.00	1.97	0.00
09/25/2014	24.00	1.69	0.00
09/26/2014	24.00	1.87	0.00
09/27/2014	24.00	2.14	0.00

13

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
09/28/2014	24.00	2.55	0.00
09/29/2014	20.57	2.52	0.00
09/30/2014	24.00	1.56	0.00

	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
TOTAL	1981.63		32.75
AVAILABILITY		98.42	

CO @7% AVAILABILITY AND VALIDITY

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COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/28/2015 @ 11:47
PERIOD: 07/01/2014 - 09/30/2014

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
07/01/2014	14.75	31.0	0.00
07/02/2014	24.00	22.0	0.00
07/03/2014	24.00	22.6	0.00
07/04/2014	19.00	28.4	0.00
07/05/2014	7.00	48.2	0.00
07/06/2014	18.50	33.2	0.00
07/07/2014	17.50	10.4	0.00
07/08/2014	17.25	16.0	0.00
07/09/2014	23.50	17.1	0.00
07/10/2014	24.00	17.8	0.00
07/11/2014	19.75	17.0	0.00
07/12/2014	24.00	16.9	0.00
07/13/2014	24.00	16.0	0.00
07/14/2014	14.87	37.4	0.00
07/15/2014	24.00	29.9	0.00
07/16/2014	24.00	31.0	0.00
07/17/2014	22.75	21.7	0.00
07/18/2014	24.00	18.6	0.00
07/19/2014	24.00	20.7	0.00
07/20/2014	24.00	21.8	0.00
07/21/2014	19.75	27.2	0.00
07/22/2014	24.00	19.8	0.00
07/23/2014	19.58	24.8	0.00
07/24/2014	24.00	16.8	0.00
07/25/2014	23.50	15.4	0.00
07/26/2014	24.00	17.3	0.00
07/27/2014	24.00	18.1	0.00
07/28/2014	24.00	20.8	0.00
07/29/2014	20.37	22.2	0.00
07/30/2014	22.60	23.1	0.00
07/31/2014	23.67	29.3	0.00
08/01/2014	24.00	24.2	0.07
08/02/2014	24.00	20.9	0.00
08/03/2014	24.00	18.0	0.00
08/04/2014	24.00	23.3	0.00
08/05/2014	15.17	39.5	0.13
08/06/2014	24.00	41.5	0.00
08/07/2014	24.00	48.3	0.00
08/08/2014	24.00	31.1	0.00
08/09/2014	24.00	30.0	0.00

CORRECTED PAGE

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DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
08/10/2014	24.00	28.8	0.00
08/11/2014	24.00	27.0	0.00
08/12/2014	24.00	27.6	0.00
08/13/2014	24.00	26.7	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	29.5	0.00
08/16/2014	24.00	58.8	0.00
08/17/2014	24.00	59.7	0.00
08/18/2014	15.00	41.7	0.00
08/19/2014	20.38	55.5	0.07
08/20/2014	19.00	47.1	0.00
08/21/2014	24.00	32.2	0.00
08/22/2014	23.00	23.0	0.00
08/23/2014	24.00	18.6	0.00
08/24/2014	16.48	24.2	0.00
08/25/2014	15.05	32.2	0.00
08/26/2014	16.88	27.2	0.00
08/27/2014	19.33	23.2	0.00
08/28/2014	17.35	29.2	0.00
08/29/2014	21.63	35.5	0.00
08/30/2014	24.00	29.8	0.00
08/31/2014	24.00	23.5	0.00
09/01/2014	17.77	24.4	0.00
09/02/2014	10.82	46.9	0.07
09/03/2014	18.23	45.3	1.47
09/04/2014	24.00	38.6	3.98
09/05/2014	24.00	36.0	0.00
09/06/2014	24.00	30.2	0.00
09/07/2014	24.00	27.5	0.00
09/08/2014	15.93	42.5	0.00
09/09/2014	23.75	56.9	0.00
09/10/2014	24.00	56.1	0.00
09/11/2014	23.50	36.2	2.97
09/12/2014	24.00	47.6	0.00
09/13/2014	24.00	32.5	0.00
09/14/2014	24.00	16.6	0.00
09/15/2014	17.08	16.2	0.00
09/16/2014	16.20	23.3	0.00
09/17/2014	23.08	49.3	0.00
09/18/2014	19.72	54.2	0.00
09/19/2014	24.00	35.1	0.00
09/20/2014	24.00	30.3	0.00
09/21/2014	23.75	29.0	0.00
09/22/2014	23.75	35.4	0.00
09/23/2014	24.00	40.1	0.00
09/24/2014	24.00	32.2	0.00
09/25/2014	24.00	34.5	0.00
09/26/2014	24.00	51.0	0.00
09/27/2014	24.00	33.7	0.00

Corrected value - a sludge pump that was OFF, was incorrectly counted as ON, (CO defaulted to max on off pump)

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
09/28/2014	24.00	26.9	0.00
09/29/2014	20.57	47.0	0.00
09/30/2014	24.00	36.6	0.00

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		30.7	
TOTAL	1981.63		32.75
AVAILABILITY		97.80	

Original

VEOLIA WATER

Sent via Certified R.R.R. Mail 7009 2820 0004 1018 1207 on October 23, 2014

October 23, 2014

Connecticut Department of Energy and Environmental Protection
Mr. John Degirolamo
Bureau of Air Management
Engineering and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127

Subject: Continuous Opacity Monitoring System Summary Report, July 1, 2014 to September 30, 2014.

Dear Mr. John Degirolamo:

Enclosed you will find a copy of the above referenced reports. There were no exceptions to the attached reports.

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

Sincerely,

Veolia Water North America-Northeast, LLC

John Batorski

John Batorski
Project Manager

cc: James Stewart, James R. Stewart PE, LS, Director of Public Works.
(Enclosures)

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

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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: July 1, 2014	To: September 30, 2014	
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: October 23, 2014

Plant Signature: John Batorski

Print (or type) John Batorski

Name and Title: Plant Manager 10-23-14

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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	2013.48 hours		
Sampling Location	Fluidized Bed Incinerator Emissions Stack		
Manufacturer / Model No.	Land / 4500 Mark II	Serial No.	0095478
Date of Certification	January 12, 2005	Date of last QA audit	June 18, 2014
MONITOR DATA AVAILABILITY			
Monitoring equipment malfunctions	1.38 – forget to add excess drift of 6.53 basically it was added to Unknown causes		
Non-monitoring equipment malfunctions	32.77		
Calibrations	4.83		
Other known causes[1]			
Unknown causes	9.51 incorrectly counted excess drift (known)	9.51 ~~6.53~~ 2.98	ess
Total COM downtime	48.49 Hours		
Data Availability (calculated)	97.5%		

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

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 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	07/08	05:55	07/08	05:59	Excess Drift Primary Monitor	Manual Recalibration	Continued Training
52	III.E.21	07/08	12:45	07/08	13:53	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	08/01	13:54	08/01	13:57	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/05	10:12	08/05	10:19	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/14	00:00	08/14	23:59	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/19	06:30	08/19	06:33	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	08/19	06:34	08/19	06:59	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	08/19	10:00	08/19	10:49	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	09/02	07:29	09/02	07:32	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/02	13:11	09/02	13:32	Excess Drift Primary Monitor	Manual Recalibration	Continued Training
52	III.E.21	09/03	12:19	09/03	13:46	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/11	09:01	09/11	11:59	Data Handling System Malfunction	Routine maintenance performed on DAS	PLC has seven day backup capabilities so no information is lost
52	III.E.21	09/21	03:42	09/21	05:04	Primary Monitor Malfunction	Corrective actions taken	Continued Training
52	III.E.21	09/23	05:58	09/23	06:28	Excess Drift Primary Monitor	Manual Recalibration	Continued Training

Part 5: Monitoring and Non-Monitoring Equipment Malfunctions (continued)

EMU# or Unit ID	Permit Cond. ID	Monitoring System Failure Period	Description and Cause of Monitoring	Corrective Actions Taken to	Measures Taken to Prevent

		Start		End		System Failure	Remedy Monitoring System Failure	Future Monitoring S[illegible]m Failures
		Date	Time	Date	Time			
52	III.E.21	09/23	06:32	09/23	07:42	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21	09/27	05:58	09/27	07:58	Excess Drift Primary Monitor	Cleaned moisture from eye, manually recalibrated	Continued training
52	III.E.21							
52	III.E.21							
52	III.E.21							
52	III.E.21							

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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 Futur Deviations
		Start		End					
		Date	Time	Date	Time				
52	IILE.21					No Incident Occured			

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Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 10/07/2014 @ 06:54
PERIOD: 07/01/2014 - 09/30/2014

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/01/2014	03:45	12:59	555	13	PROCESS DOWN	N/A
07/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/05/2014	00:00	16:59	1020	13	PROCESS DOWN	N/A
07/06/2014	00:00	00:14	15	13	PROCESS DOWN	N/A
07/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/06/2014	15:15	15:29	15	13	PROCESS DOWN	N/A
07/06/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/07/2014	00:00	06:29	390	13	PROCESS DOWN	N/A
07/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/08/2014	05:58	05:59	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	06:00	12:44	405	13	PROCESS DOWN	N/A
07/08/2014	12:45	13:53	69	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	13:54	13:56	3	14	RECALIBRATION	N/A
07/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/09/2014	12:30	12:59	30	13	PROCESS DOWN	N/A
07/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/11/2014	02:45	06:59	255	13	PROCESS DOWN	N/A
07/11/2014	07:14	07:17	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/14/2014	00:31	07:29	419	13	PROCESS DOWN	N/A
07/14/2014	13:00	15:08	129	13	PROCESS DOWN	N/A
07/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	07:36	07:38	3	14	RECALIBRATION	N/A
07/17/2014	07:54	09:08	75	13	PROCESS DOWN	N/A
07/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	07:40	11:54	255	13	PROCESS DOWN	N/A
07/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	06:24	10:48	265	13	PROCESS DOWN	N/A
07/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	06:55	07:03	9	13	PROCESS DOWN	N/A
07/25/2014	07:04	07:08	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/25/2014	07:09	07:24	16	13	PROCESS DOWN	N/A
07/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	09:17	12:54	218	13	PROCESS DOWN	N/A
07/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/30/2014	07:06	08:29	84	13	PROCESS DOWN	N/A
07/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A

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DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/31/2014	06:53	07:12	20	13	PROCESS DOWN	N/A
08/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/01/2014	13:54	13:57	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/05/2014	03:44	10:11	388	13	PROCESS DOWN	N/A
08/05/2014	10:12	10:19	8	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/05/2014	10:20	12:18	119	13	PROCESS DOWN	N/A
08/05/2014	13:12	13:26	15	13	PROCESS DOWN	N/A
08/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	07:28	07:29	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/14/2014	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/15/2014	09:04	09:11	8	13	PROCESS DOWN	N/A
08/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/18/2014	04:57	13:56	540	13	PROCESS DOWN	N/A
08/19/2014	02:40	03:00	21	13	PROCESS DOWN	N/A
08/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/19/2014	06:30	06:33	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/19/2014	06:34	06:59	26	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	07:00	09:59	180	13	PROCESS DOWN	N/A
08/19/2014	10:00	10:49	50	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	10:50	10:52	3	14	RECALIBRATION	N/A
08/19/2014	19:00	19:14	15	13	PROCESS DOWN	N/A
08/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/20/2014	07:00	11:59	300	13	PROCESS DOWN	N/A
08/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	08:56	08:58	3	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/23/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/24/2014	04:20	11:50	451	13	PROCESS DOWN	N/A
08/25/2014	02:28	11:24	537	13	PROCESS DOWN	N/A
08/26/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/26/2014	09:23	16:29	427	13	PROCESS DOWN	N/A
08/27/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/27/2014	09:33	14:12	280	13	PROCESS DOWN	N/A
08/27/2014	14:51	14:57	7	14	RECALIBRATION	N/A
08/28/2014	06:46	13:23	398	13	PROCESS DOWN	N/A
08/28/2014	13:48	13:48	1	13	PROCESS DOWN	N/A
08/29/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/29/2014	07:03	09:24	142	13	PROCESS DOWN	N/A
08/30/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/31/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	22:51	23:59	69	13	PROCESS DOWN	N/A
09/02/2014	00:00	07:28	449	13	PROCESS DOWN	N/A
09/02/2014	07:29	07:32	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/02/2014	07:33	13:10	338	13	PROCESS DOWN	N/A
09/02/2014	13:11	13:32	22	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/02/2014	13:33	13:35	3	14	RECALIBRATION	N/A
09/03/2014	06:54	06:57	4	14	RECALIBRATION	N/A

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DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/03/2014	08:17	12:18	242	13	PROCESS DOWN	N/A
09/03/2014	12:19	13:46	88	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/03/2014	13:47	14:02	16	13	PROCESS DOWN	N/A
09/04/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/04/2014	09:34	13:32	239	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/05/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/05/2014	08:56	08:59	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/06/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/07/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/08/2014	06:15	12:59	405	13	PROCESS DOWN	N/A
09/08/2014	13:32	13:37	6	13	PROCESS DOWN	N/A
09/08/2014	15:04	16:16	73	13	PROCESS DOWN	N/A
09/09/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/09/2014	17:28	17:42	15	13	PROCESS DOWN	N/A
09/10/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	04:43	05:12	30	13	PROCESS DOWN	N/A
09/11/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	09:01	11:59	179	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/12/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/13/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/14/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/15/2014	06:43	12:15	333	13	PROCESS DOWN	N/A
09/15/2014	22:38	23:59	82	13	PROCESS DOWN	N/A
09/16/2014	00:00	04:06	247	13	PROCESS DOWN	N/A
09/16/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/16/2014	13:39	13:48	10	13	PROCESS DOWN	N/A
09/16/2014	18:19	21:49	211	13	PROCESS DOWN	N/A
09/17/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/17/2014	23:05	23:59	55	13	PROCESS DOWN	N/A
09/18/2014	00:00	03:19	200	13	PROCESS DOWN	N/A
09/18/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/18/2014	08:05	08:51	47	13	PROCESS DOWN	N/A
09/18/2014	08:55	09:04	10	13	PROCESS DOWN	N/A
09/19/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/19/2014	08:10	08:13	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	08:57	11:25	149	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	11:26	11:26	1	14	RECALIBRATION	N/A
09/19/2014	11:27	11:32	6	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/20/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/21/2014	03:42	05:04	83	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
09/21/2014	05:05	05:07	3	14	RECALIBRATION	N/A
09/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/21/2014	09:06	09:20	15	13	PROCESS DOWN	N/A
09/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/22/2014	09:20	09:34	15	13	PROCESS DOWN	N/A
09/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/23/2014	05:58	06:28	31	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	06:29	06:31	3	14	RECALIBRATION	N/A
09/23/2014	06:32	07:42	71	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	07:43	07:45	3	14	RECALIBRATION	N/A
09/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:58	07:58	121	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/27/2014	07:59	08:02	4	14	RECALIBRATION	N/A
09/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	07:33	10:43	191	13	PROCESS DOWN	N/A
09/29/2014	11:44	11:58	15	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
11	6.53	2.69	EXCESS DRIFT PRIMARY MONITOR
13	194.52	80.04	PROCESS DOWN
14	4.83	1.99	RECALIBRATION
16	1.38	0.57	PRIMARY MONITOR MALFUNCTION
18	32.77	13.48	DATA HANDLING SYSTEM MALFUNCTION
20	2.98	1.23	CORRECTIVE MAINTENANCE

TOTAL HOURS: 243.02

92 days in Q3 2014 = 2208
− 194.52
2013.48 – total

2013.48 − 48.49
2013.48 × 100 = 97.5%

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OPACITY AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 10/07/2014 @ 06:49
PERIOD: 07/01/2014 - 09/30/2014

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
07/01/2014	14.75	3.83	0.00
07/02/2014	24.00	3.76	0.00
07/03/2014	24.00	3.49	0.00
07/04/2014	19.00	3.31	0.00
07/05/2014	7.00	3.15	0.00
07/06/2014	18.50	3.69	0.00
07/07/2014	17.50	3.79	0.00
07/08/2014	17.25	3.55	0.00
07/09/2014	23.50	3.43	0.00
07/10/2014	24.00	3.40	0.00
07/11/2014	19.75	3.91	0.00
07/12/2014	24.00	3.85	0.00
07/13/2014	24.00	3.92	0.00
07/14/2014	14.87	3.34	0.00
07/15/2014	24.00	3.61	0.00
07/16/2014	24.00	3.38	0.00
07/17/2014	22.75	3.37	0.00
07/18/2014	24.00	3.67	0.00
07/19/2014	24.00	3.57	0.00
07/20/2014	24.00	3.73	0.00
07/21/2014	19.75	3.69	0.00
07/22/2014	24.00	3.88	0.00
07/23/2014	19.58	3.81	0.00
07/24/2014	24.00	3.50	0.00
07/25/2014	23.50	3.65	0.00
07/26/2014	24.00	3.61	0.00
07/27/2014	24.00	3.67	0.00
07/28/2014	24.00	3.61	0.00
07/29/2014	20.37	3.30	0.00
07/30/2014	22.60	3.72	0.00
07/31/2014	23.67	3.91	0.00
08/01/2014	24.00	3.75	0.07
08/02/2014	24.00	3.39	0.00
08/03/2014	24.00	3.38	0.00
08/04/2014	24.00	3.61	0.00
08/05/2014	15.17	3.80	0.13
08/06/2014	24.00	3.72	0.00
08/07/2014	24.00	3.74	0.00
08/08/2014	24.00	3.87	0.00
08/09/2014	24.00	3.83	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
08/10/2014	24.00	3.90	0.00
08/11/2014	24.00	3.96	0.00
08/12/2014	24.00	4.00	0.00
08/13/2014	24.00	3.72	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	3.42	0.00
08/16/2014	24.00	3.57	0.00
08/17/2014	24.00	3.41	0.00
08/18/2014	15.00	3.50	0.00
08/19/2014	20.38	3.79	0.07
08/20/2014	19.00	3.62	0.00
08/21/2014	24.00	3.67	0.00
08/22/2014	23.00	3.42	0.00
08/23/2014	24.00	3.20	0.00
08/24/2014	16.48	3.06	0.00
08/25/2014	15.05	3.84	0.00
08/26/2014	16.88	3.52	0.00
08/27/2014	19.33	3.25	0.00
08/28/2014	17.35	3.09	0.00
08/29/2014	21.63	3.51	0.00
08/30/2014	24.00	3.30	0.00
08/31/2014	24.00	3.24	0.00
09/01/2014	22.85	3.23	0.00
09/02/2014	10.82	3.57	0.07
09/03/2014	18.23	3.02	1.47
09/04/2014	24.00	3.59	3.98
09/05/2014	24.00	3.82	0.00
09/06/2014	24.00	3.62	0.00
09/07/2014	24.00	3.08	0.00
09/08/2014	15.93	3.36	0.00
09/09/2014	23.75	3.61	0.00
09/10/2014	24.00	3.79	0.00
09/11/2014	23.50	3.87	2.97
09/12/2014	24.00	3.82	0.00
09/13/2014	24.00	3.59	0.00
09/14/2014	24.00	3.25	0.00
09/15/2014	17.08	3.80	0.00
09/16/2014	16.20	3.72	0.00
09/17/2014	23.08	3.86	0.00
09/18/2014	19.72	3.98	0.00
09/19/2014	24.00	3.40	0.00
09/20/2014	24.00	3.38	0.00
09/21/2014	23.75	3.00	0.00
09/22/2014	23.75	3.00	0.00
09/23/2014	24.00	2.37	0.00
09/24/2014	24.00	1.97	0.00
09/25/2014	24.00	1.69	0.00
09/26/2014	24.00	1.87	0.00
09/27/2014	24.00	2.14	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
09/28/2014	24.00	2.55	0.00
09/29/2014	20.57	2.52	0.00
09/30/2014	24.00	1.56	0.00

	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
TOTAL	1986.72		32.75
AVAILABILITY		98.47	

CO @7% AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 10/07/2014 @ 06:52
PERIOD: 07/01/2014 - 09/30/2014

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
07/01/2014	14.75	31.0	0.00
07/02/2014	24.00	22.0	0.00
07/03/2014	24.00	22.6	0.00
07/04/2014	19.00	23.4	0.00
07/05/2014	7.00	48.2	0.00
07/06/2014	18.50	33.2	0.00
07/07/2014	17.50	10.4	0.00
07/08/2014	17.25	16.0	0.00
07/09/2014	23.50	17.1	0.00
07/10/2014	24.00	17.8	0.00
07/11/2014	19.75	17.0	0.00
07/12/2014	24.00	16.9	0.00
07/13/2014	24.00	16.0	0.00
07/14/2014	14.87	37.4	0.00
07/15/2014	24.00	29.9	0.00
07/16/2014	24.00	31.0	0.00
07/17/2014	22.75	21.7	0.00
07/18/2014	24.00	18.6	0.00
07/19/2014	24.00	20.7	0.00
07/20/2014	24.00	21.8	0.00
07/21/2014	19.75	27.2	0.00
07/22/2014	24.00	19.8	0.00
07/23/2014	19.58	24.8	0.00
07/24/2014	24.00	16.8	0.00
07/25/2014	23.50	15.4	0.00
07/26/2014	24.00	17.3	0.00
07/27/2014	24.00	18.1	0.00
07/28/2014	24.00	20.8	0.00
07/29/2014	20.37	22.2	0.00
07/30/2014	22.60	23.1	0.00
07/31/2014	23.67	29.3	0.00
08/01/2014	24.00	24.2	0.07
08/02/2014	24.00	20.9	0.00
08/03/2014	24.00	18.0	0.00
08/04/2014	24.00	23.3	0.00
08/05/2014	15.17	39.5	0.13
08/06/2014	24.00	41.5	0.00
08/07/2014	24.00	48.3	0.00
08/08/2014	24.00	31.1	0.00
08/09/2014	24.00	30.0	0.00

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DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
08/10/2014	24.00	28.8	0.00
08/11/2014	24.00	27.0	0.00
08/12/2014	24.00	27.6	0.00
08/13/2014	24.00	26.7	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	29.5	0.00
08/16/2014	24.00	58.8	0.00
08/17/2014	24.00	59.7	0.00
08/18/2014	15.00	41.7	0.00
08/19/2014	20.38	55.5	0.07
08/20/2014	19.00	47.1	0.00
08/21/2014	24.00	32.2	0.00
08/22/2014	23.00	23.0	0.00
08/23/2014	24.00	18.6	0.00
08/24/2014	16.48	24.2	0.00
08/25/2014	15.05	32.2	0.00
08/26/2014	16.88	27.2	0.00
08/27/2014	19.33	23.2	0.00
08/28/2014	17.35	29.2	0.00
08/29/2014	21.63	35.5	0.00
08/30/2014	24.00	29.8	0.00
08/31/2014	24.00	23.5	0.00
09/01/2014	22.85	140.1	0.00
09/02/2014	10.82	46.9	0.07
09/03/2014	18.23	45.3	1.47
09/04/2014	24.00	38.6	3.98
09/05/2014	24.00	36.0	0.00
09/06/2014	24.00	30.2	0.00
09/07/2014	24.00	27.5	0.00
09/08/2014	15.93	42.5	0.00
09/09/2014	23.75	56.9	0.00
09/10/2014	24.00	56.1	0.00
09/11/2014	23.50	36.2	2.97
09/12/2014	24.00	47.6	0.00
09/13/2014	24.00	32.5	0.00
09/14/2014	24.00	16.6	0.00
09/15/2014	17.08	16.2	0.00
09/16/2014	16.20	23.3	0.00
09/17/2014	23.08	49.3	0.00
09/18/2014	19.72	54.2	0.00
09/19/2014	24.00	35.1	0.00
09/20/2014	24.00	30.3	0.00
09/21/2014	23.75	29.0	0.00
09/22/2014	23.75	35.4	0.00
09/23/2014	24.00	40.1	0.00
09/24/2014	24.00	32.2	0.00
09/25/2014	24.00	34.5	0.00
09/26/2014	24.00	51.0	0.00
09/27/2014	24.00	33.7	0.00

- Incorrectly counted a sludge calc feed pump as "ON" while off, with an incorrect CO level. This software glitch was corrected.

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DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
09/28/2014	24.00	26.9	0.00
09/29/2014	20.57	47.0	0.00
09/30/2014	24.00	36.6	0.00

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		32.0	
TOTAL	1986.72		32.75
AVAILABILITY		97.85	

VEOLIA
WATER

Send via Certified Mail #7009 2820 0004 1018 1399 on Jan 29, 2015

January 29, 2015

Connecticut Department of Environmental Protection
Compliance and Field Operations Division
Bureau of Air Management
79 Elm Street
Hartford, CT 06106-5127

Subject: Continuous Emission Monitoring Semi Annual Report for the July 1, 2014 to Dec 31, 2014, Naugatuck, CT. POTW

Dear Sir/Madam:

Enclosed please find the above reference report attached. Please contact me if you have any questions regarding the reports.

Sincerely,

John Batorski

John Batorski
Plant Manager
Veolia Water North America

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

Enclosures: Continuous Emission Monitoring Semi Annual Report for the Naugatuck, CT. POTW

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@veoliawater.com
Contact phone number	(203) 723-1433
Reporting period dates	July 1, 2014 – December 31, 2014
Report submittal date	January 28, 2015
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: Jan 29, 2015
Signature (Company Officer): John Batorski
Print (or type) name and title: John Batorski Plant Manager

Michael Unterweger, CK Environmental, Preparer

CONNECTICUT DEP - Bureau of Air Management

CEM Forms Package, 08/19/96

CONTINUOUS EMISSION MONITORING PERFORMANCE REPORT	
Company name	Borough of Naugatuck
Reporting period	07/01/2014 – 12/31/2014
Unit number	EMU 52
Unit operating time	4055.27 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	December 12, 2014 ✓
Audit type (e.g., CGA, RATA, RAA)	CGA
Audit results (pass / fail)	Pass

CMS DOWNTIME	
REASONS	TIME (hours, or minutes for opacity)
Monitoring equipment malfunctions	13.9 hours
Non-monitoring equipment malfunctions	38.03 hours
Calibrations	12.10 hours
Other known causes [1]	5.25 hours
Unknown causes	0
TOTAL CMS DOWNTIME	69.28 hours

QUARTERLY DATA AVAILABILITY RESULTS	
Quarterly Data Availability (% of operating hours)(see below)	98.31% ✓

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

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	07/01/2014 – 12/31/2014
Unit number	EMU 52
Unit operating time	4060.35 hours

MONITOR INFORMATION

Pollutant / Constituent	Opacity
Sampling location	Stack
Manufacturer / Model number	Land / 4500 Mark II
Instrument range(s)	0-300 ppm
Date of last audit	December 12, 2014
Audit type (e.g., CGA, RATA, RAA)	Opacity
Audit results (pass / fail)	Pass

CMS DOWNTIME

REASONS	TIME (hours, or minutes for opacity)
Monitoring equipment malfunctions	13.9 hours
Non-monitoring equipment malfunctions	38.03 hours
Calibrations	12.10 hours
Other known causes [1]	5.25 hours
Unknown causes	0
TOTAL CMS DOWNTIME	69.28 hours

QUARTERLY DATA AVAILABILITY RESULTS

Quarterly Data Availability (% of operating hours)(see below)	98.31%

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

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	07/01/2014 – 12/31/2014
Unit number	EMU 52
Unit operating time	4055.27 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	07/01/2014 – 12/31/2014		
Unit number	EMU 52		
Unit operating time	4060.35 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

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	Jan 29, 2015
Signature (Company Officer)	John Batorski John Batorski
Title	Plant Manager

CO @7% AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 11:38
PERIOD: 07/01/2014 - 12/31/2014

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
07/01/2014	14.75	31.0	0.00
07/02/2014	24.00	22.0	0.00
07/03/2014	24.00	22.6	0.00
07/04/2014	19.00	23.4	0.00
07/05/2014	7.00	48.2	0.00
07/06/2014	18.50	33.2	0.00
07/07/2014	17.50	10.4	0.00
07/08/2014	17.25	16.0	0.00
07/09/2014	23.50	17.1	0.00
07/10/2014	24.00	17.8	0.00
07/11/2014	19.75	17.0	0.00
07/12/2014	24.00	16.9	0.00
07/13/2014	24.00	16.0	0.00
07/14/2014	14.87	37.4	0.00
07/15/2014	24.00	29.9	0.00
07/16/2014	24.00	31.0	0.00
07/17/2014	22.75	21.7	0.00
07/18/2014	24.00	18.6	0.00
07/19/2014	24.00	20.7	0.00
07/20/2014	24.00	21.8	0.00
07/21/2014	19.75	27.2	0.00
07/22/2014	24.00	19.8	0.00
07/23/2014	19.58	24.8	0.00
07/24/2014	24.00	16.8	0.00
07/25/2014	23.50	15.4	0.00
07/26/2014	24.00	17.3	0.00
07/27/2014	24.00	18.1	0.00
07/28/2014	24.00	20.8	0.00
07/29/2014	20.37	22.2	0.00
07/30/2014	22.60	23.1	0.00
07/31/2014	23.67	29.3	0.00
08/01/2014	24.00	24.2	0.07
08/02/2014	24.00	20.9	0.00
08/03/2014	24.00	18.0	0.00
08/04/2014	24.00	23.3	0.00
08/05/2014	15.17	39.5	0.13
08/06/2014	24.00	41.5	0.00
08/07/2014	24.00	48.3	0.00
08/08/2014	24.00	31.1	0.00
08/09/2014	24.00	30.0	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
08/10/2014	24.00	28.8	0.00
08/11/2014	24.00	27.0	0.00
08/12/2014	24.00	27.6	0.00
08/13/2014	24.00	26.7	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	29.5	0.00
08/16/2014	24.00	58.8	0.00
08/17/2014	24.00	59.7	0.00
08/18/2014	15.00	41.7	0.00
08/19/2014	20.38	55.5	0.07
08/20/2014	19.00	47.1	0.00
08/21/2014	24.00	32.2	0.00
08/22/2014	23.00	23.0	0.00
08/23/2014	24.00	18.6	0.00
08/24/2014	16.48	24.2	0.00
08/25/2014	15.05	32.2	0.00
08/26/2014	16.88	27.2	0.00
08/27/2014	19.33	23.2	0.00
08/28/2014	17.35	29.2	0.00
08/29/2014	21.63	35.5	0.00
08/30/2014	24.00	29.8	0.00
08/31/2014	24.00	23.5	0.00
09/01/2014	17.77	24.4	0.00
09/02/2014	10.82	46.9	0.07
09/03/2014	18.23	45.3	1.47
09/04/2014	24.00	38.6	3.98
09/05/2014	24.00	36.0	0.00
09/06/2014	24.00	30.2	0.00
09/07/2014	24.00	27.5	0.00
09/08/2014	15.93	42.5	0.00
09/09/2014	23.75	56.9	0.00
09/10/2014	24.00	56.1	0.00
09/11/2014	23.50	36.2	2.97
09/12/2014	24.00	47.6	0.00
09/13/2014	24.00	32.5	0.00
09/14/2014	24.00	16.6	0.00
09/15/2014	17.08	16.2	0.00
09/16/2014	16.20	23.3	0.00
09/17/2014	23.08	49.3	0.00
09/18/2014	19.72	54.2	0.00
09/19/2014	24.00	35.1	0.00
09/20/2014	24.00	30.3	0.00
09/21/2014	23.75	29.0	0.00
09/22/2014	23.75	35.4	0.00
09/23/2014	24.00	40.1	0.00
09/24/2014	24.00	32.2	0.00
09/25/2014	24.00	34.5	0.00
09/26/2014	24.00	51.0	0.00
09/27/2014	24.00	33.7	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
09/28/2014	24.00	26.9	0.00
09/29/2014	20.57	47.0	0.00
09/30/2014	24.00	36.6	0.00
10/01/2014	23.00	35.7	0.00
10/02/2014	24.00	26.7	0.00
10/03/2014	24.00	13.3	0.00
10/04/2014	23.00	18.2	0.00
10/05/2014	24.00	7.5	0.00
10/06/2014	24.00	14.3	0.00
10/07/2014	23.50	15.1	0.00
10/08/2014	24.00	31.3	0.00
10/09/2014	24.00	32.5	0.00
10/10/2014	24.00	45.1	0.00
10/11/2014	23.75	47.7	0.00
10/12/2014	24.00	47.8	0.00
10/13/2014	10.97	43.1	0.00
10/14/2014	20.85	36.7	0.00
10/15/2014	19.72	50.2	0.00
10/16/2014	23.97	43.6	0.00
10/17/2014	24.00	41.2	0.00
10/18/2014	24.00	50.5	0.00
10/19/2014	24.00	49.6	0.00
10/20/2014	24.00	47.6	0.00
10/21/2014	24.00	38.3	0.00
10/22/2014	23.68	68.4	0.00
10/23/2014	24.00	40.3	0.00
10/24/2014	24.00	63.6	0.00
10/25/2014	23.58	58.6	0.00
10/26/2014	24.00	31.2	0.00
10/27/2014	24.00	28.8	0.00
10/28/2014	24.00	21.7	0.00
10/29/2014	24.00	28.0	0.00
10/30/2014	24.00	39.8	0.00
10/31/2014	24.00	53.3	0.00
11/01/2014	24.00	45.7	0.00
11/02/2014	24.00	64.4	0.00
11/03/2014	24.00	52.5	0.00
11/04/2014	24.00	45.7	0.00
11/05/2014	24.00	44.7	0.00
11/06/2014	24.00	45.0	0.00
11/07/2014	24.00	44.9	0.00
11/08/2014	24.00	56.2	0.00
11/09/2014	13.25	32.8	0.00
11/10/2014	0.00	OFF	0.00
11/11/2014	19.53	42.8	0.00
11/12/2014	23.33	39.6	0.00
11/13/2014	24.00	44.8	0.00
11/14/2014	24.00	44.8	0.00
11/15/2014	24.00	55.1	0.00

DATE	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
11/16/2014	24.00	40.8	0.00
11/17/2014	24.00	45.4	0.00
11/18/2014	24.00	31.0	0.00
11/19/2014	24.00	39.9	0.00
11/20/2014	23.57	40.3	0.00
11/21/2014	22.38	56.4	0.00
11/22/2014	24.00	53.2	0.00
11/23/2014	24.00	40.1	0.00
11/24/2014	24.00	47.7	0.00
11/25/2014	24.00	37.8	0.00
11/26/2014	21.50	47.0	0.00
11/27/2014	23.75	42.0	0.00
11/28/2014	24.00	46.7	0.00
11/29/2014	24.00	53.1	0.00
11/30/2014	24.00	37.3	0.00
12/01/2014	10.40	83.8	5.07
12/02/2014	23.35	46.6	0.00
12/03/2014	24.00	51.4	0.00
12/04/2014	24.00	50.7	0.00
12/05/2014	24.00	41.6	0.00
12/06/2014	23.75	50.8	0.00
12/07/2014	24.00	57.8	0.00
12/08/2014	23.75	64.8	0.00
12/09/2014	23.83	43.8	0.03
12/10/2014	24.00	47.9	0.00
12/11/2014	24.00	49.5	0.00
12/12/2014	24.00	55.8	0.00
12/13/2014	24.00	54.1	0.00
12/14/2014	24.00	62.5	0.00
12/15/2014	17.00	63.1	0.00
12/16/2014	23.02	55.3	0.00
12/17/2014	24.00	58.1	0.00
12/18/2014	24.00	37.2	0.00
12/19/2014	23.72	42.3	0.00
12/20/2014	24.00	44.3	0.00
12/21/2014	24.00	42.6	0.00
12/22/2014	12.83	36.0	0.00
12/23/2014	22.15	49.6	0.00
12/24/2014	24.00	96.4	0.00
12/25/2014	24.00	28.1	0.00
12/26/2014	12.25	44.4	0.00
12/27/2014	24.00	42.3	0.00
12/28/2014	24.00	29.5	0.00
12/29/2014	8.18	23.9	0.00
12/30/2014	22.07	46.3	0.00
12/31/2014	24.00	46.2	0.00

	SOURCE ON (HRS)	CO @7% (ppmvd)	DAS DOWN (HRS)
AVERAGE		37.5	
TOTAL	4055.27		37.85
AVAILABILITY		98.13	

OPACITY AVAILABILITY AND VALIDITY

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:45
PERIOD: 07/01/2014 - 12/31/2014

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
07/01/2014	14.75	3.83	0.00
07/02/2014	24.00	3.76	0.00
07/03/2014	24.00	3.49	0.00
07/04/2014	19.00	3.31	0.00
07/05/2014	7.00	3.15	0.00
07/06/2014	18.50	3.69	0.00
07/07/2014	17.50	3.79	0.00
07/08/2014	17.25	3.55	0.00
07/09/2014	23.50	3.43	0.00
07/10/2014	24.00	3.40	0.00
07/11/2014	19.75	3.91	0.00
07/12/2014	24.00	3.85	0.00
07/13/2014	24.00	3.92	0.00
07/14/2014	14.87	3.34	0.00
07/15/2014	24.00	3.61	0.00
07/16/2014	24.00	3.38	0.00
07/17/2014	22.75	3.37	0.00
07/18/2014	24.00	3.67	0.00
07/19/2014	24.00	3.57	0.00
07/20/2014	24.00	3.73	0.00
07/21/2014	19.75	3.69	0.00
07/22/2014	24.00	3.88	0.00
07/23/2014	19.58	3.81	0.00
07/24/2014	24.00	3.50	0.00
07/25/2014	23.50	3.65	0.00
07/26/2014	24.00	3.61	0.00
07/27/2014	24.00	3.67	0.00
07/28/2014	24.00	3.61	0.00
07/29/2014	20.37	3.30	0.00
07/30/2014	22.60	3.72	0.00
07/31/2014	23.67	3.91	0.00
08/01/2014	24.00	3.75	0.07
08/02/2014	24.00	3.39	0.00
08/03/2014	24.00	3.38	0.00
08/04/2014	24.00	3.61	0.00
08/05/2014	15.17	3.80	0.13
08/06/2014	24.00	3.72	0.00
08/07/2014	24.00	3.74	0.00
08/08/2014	24.00	3.87	0.00
08/09/2014	24.00	3.83	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
08/10/2014	24.00	3.90	0.00
08/11/2014	24.00	3.96	0.00
08/12/2014	24.00	4.00	0.00
08/13/2014	24.00	3.72	0.00
08/14/2014	0.00	DAS/PLC	24.00
08/15/2014	23.87	3.42	0.00
08/16/2014	24.00	3.57	0.00
08/17/2014	24.00	3.41	0.00
08/18/2014	15.00	3.50	0.00
08/19/2014	20.38	3.79	0.07
08/20/2014	19.00	3.62	0.00
08/21/2014	24.00	3.67	0.00
08/22/2014	23.00	3.42	0.00
08/23/2014	24.00	3.20	0.00
08/24/2014	16.48	3.06	0.00
08/25/2014	15.05	3.84	0.00
08/26/2014	16.88	3.52	0.00
08/27/2014	19.33	3.25	0.00
08/28/2014	17.35	3.09	0.00
08/29/2014	21.63	3.51	0.00
08/30/2014	24.00	3.30	0.00
08/31/2014	24.00	3.24	0.00
09/01/2014	22.85	3.23	0.00
09/02/2014	10.82	3.57	0.07
09/03/2014	18.23	3.02	1.47
09/04/2014	24.00	3.59	3.98
09/05/2014	24.00	3.82	0.00
09/06/2014	24.00	3.62	0.00
09/07/2014	24.00	3.08	0.00
09/08/2014	15.93	3.36	0.00
09/09/2014	23.75	3.61	0.00
09/10/2014	24.00	3.79	0.00
09/11/2014	23.50	3.87	2.97
09/12/2014	24.00	3.82	0.00
09/13/2014	24.00	3.59	0.00
09/14/2014	24.00	3.25	0.00
09/15/2014	17.08	3.80	0.00
09/16/2014	16.20	3.72	0.00
09/17/2014	23.08	3.86	0.00
09/18/2014	19.72	3.98	0.00
09/19/2014	24.00	3.40	0.00
09/20/2014	24.00	3.38	0.00
09/21/2014	23.75	3.00	0.00
09/22/2014	23.75	3.00	0.00
09/23/2014	24.00	2.37	0.00
09/24/2014	24.00	1.97	0.00
09/25/2014	24.00	1.69	0.00
09/26/2014	24.00	1.87	0.00
09/27/2014	24.00	2.14	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
09/28/2014	24.00	2.55	0.00
09/29/2014	20.57	2.52	0.00
09/30/2014	24.00	1.56	0.00
10/01/2014	23.00	1.88	0.00
10/02/2014	24.00	1.89	0.00
10/03/2014	24.00	1.77	0.00
10/04/2014	23.00	1.61	0.00
10/05/2014	24.00	1.84	0.00
10/06/2014	24.00	1.96	0.00
10/07/2014	23.50	1.96	0.00
10/08/2014	24.00	1.83	0.00
10/09/2014	24.00	1.76	0.00
10/10/2014	24.00	1.68	0.00
10/11/2014	23.75	1.31	0.00
10/12/2014	24.00	1.47	0.00
10/13/2014	10.97	1.29	0.00
10/14/2014	20.85	2.10	0.00
10/15/2014	19.72	1.94	0.00
10/16/2014	23.97	2.33	0.00
10/17/2014	24.00	1.63	0.00
10/18/2014	24.00	1.21	0.00
10/19/2014	24.00	1.64	0.00
10/20/2014	24.00	1.32	0.00
10/21/2014	24.00	1.35	0.00
10/22/2014	23.68	1.68	0.00
10/23/2014	24.00	1.80	0.00
10/24/2014	24.00	1.57	0.00
10/25/2014	23.58	1.76	0.00
10/26/2014	24.00	1.65	0.00
10/27/2014	24.00	1.95	0.00
10/28/2014	24.00	1.87	0.00
10/29/2014	24.00	1.58	0.00
10/30/2014	24.00	1.64	0.00
10/31/2014	24.00	1.63	0.00
11/01/2014	24.00	1.56	0.00
11/02/2014	24.00	1.78	0.00
11/03/2014	24.00	1.56	0.00
11/04/2014	24.00	1.93	0.00
11/05/2014	24.00	1.64	0.00
11/06/2014	24.00	1.45	0.00
11/07/2014	24.00	1.54	0.00
11/08/2014	24.00	1.41	0.00
11/09/2014	13.25	1.41	0.00
11/10/2014	0.00	OFF	0.00
11/11/2014	19.53	1.79	0.00
11/12/2014	23.33	1.68	0.00
11/13/2014	24.00	1.49	0.00
11/14/2014	24.00	1.47	0.00
11/15/2014	24.00	1.41	0.00

DATE	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
11/16/2014	24.00	1.25	0.00
11/17/2014	24.00	1.17	0.00
11/18/2014	24.00	1.51	0.00
11/19/2014	24.00	1.62	0.00
11/20/2014	23.57	1.96	0.00
11/21/2014	22.38	2.03	0.00
11/22/2014	24.00	1.83	0.00
11/23/2014	24.00	1.67	0.00
11/24/2014	24.00	2.12	0.00
11/25/2014	24.00	1.12	0.00
11/26/2014	21.50	1.10	0.00
11/27/2014	23.75	0.77	0.00
11/28/2014	24.00	1.02	0.00
11/29/2014	24.00	0.83	0.00
11/30/2014	24.00	1.08	0.00
12/01/2014	10.40	1.19	5.07
12/02/2014	23.35	1.58	0.00
12/03/2014	24.00	1.30	0.00
12/04/2014	24.00	1.15	0.00
12/05/2014	24.00	0.63	0.00
12/06/2014	23.75	0.19	0.00
12/07/2014	24.00	0.71	0.00
12/08/2014	23.75	0.56	0.00
12/09/2014	23.83	0.70	0.03
12/10/2014	24.00	0.16	0.00
12/11/2014	24.00	0.01	0.00
12/12/2014	24.00	0.25	0.00
12/13/2014	24.00	0.51	0.00
12/14/2014	24.00	0.37	0.00
12/15/2014	17.00	0.69	0.00
12/16/2014	23.02	0.13	0.00
12/17/2014	24.00	0.36	0.00
12/18/2014	24.00	0.41	0.00
12/19/2014	23.72	0.46	0.00
12/20/2014	24.00	0.22	0.00
12/21/2014	24.00	0.17	0.00
12/22/2014	12.83	0.14	0.00
12/23/2014	22.15	0.17	0.00
12/24/2014	24.00	0.21	0.00
12/25/2014	24.00	0.39	0.00
12/26/2014	12.25	0.30	0.00
12/27/2014	24.00	0.34	0.00
12/28/2014	24.00	0.25	0.00
12/29/2014	8.18	0.01	0.00
12/30/2014	22.07	0.36	0.00
12/31/2014	24.00	0.35	0.00

	SOURCE ON (HRS)	OPACITY (%)	DAS DOWN (HRS)
TOTAL	4060.35		37.85
AVAILABILITY		98.67	

Continuous Opacty Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:49
PERIOD: 07/01/2014 - 12/31/2014

INCIDENT: HI 1-HR OPACITY (%)

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
07/01/2014	NO	INCIDENT	OCCURRED							
07/02/2014	NO	INCIDENT	OCCURRED							
07/03/2014	NO	INCIDENT	OCCURRED							
07/04/2014	NO	INCIDENT	OCCURRED							
07/05/2014	NO	INCIDENT	OCCURRED							
07/06/2014	NO	INCIDENT	OCCURRED							
07/07/2014	NO	INCIDENT	OCCURRED							
07/08/2014	NO	INCIDENT	OCCURRED							
07/09/2014	NO	INCIDENT	OCCURRED							
07/10/2014	NO	INCIDENT	OCCURRED							
07/11/2014	NO	INCIDENT	OCCURRED							
07/12/2014	NO	INCIDENT	OCCURRED							
07/13/2014	NO	INCIDENT	OCCURRED							
07/14/2014	NO	INCIDENT	OCCURRED							
07/15/2014	NO	INCIDENT	OCCURRED							
07/16/2014	NO	INCIDENT	OCCURRED							
07/17/2014	NO	INCIDENT	OCCURRED							
07/18/2014	NO	INCIDENT	OCCURRED							
07/19/2014	NO	INCIDENT	OCCURRED							
07/20/2014	NO	INCIDENT	OCCURRED							
07/21/2014	NO	INCIDENT	OCCURRED							
07/22/2014	NO	INCIDENT	OCCURRED							
07/23/2014	NO	INCIDENT	OCCURRED							
07/24/2014	NO	INCIDENT	OCCURRED							
07/25/2014	NO	INCIDENT	OCCURRED							
07/26/2014	NO	INCIDENT	OCCURRED							
07/27/2014	NO	INCIDENT	OCCURRED							
07/28/2014	NO	INCIDENT	OCCURRED							
07/29/2014	NO	INCIDENT	OCCURRED							
07/30/2014	NO	INCIDENT	OCCURRED							
07/31/2014	NO	INCIDENT	OCCURRED							
08/01/2014	NO	INCIDENT	OCCURRED							
08/02/2014	NO	INCIDENT	OCCURRED							
08/03/2014	NO	INCIDENT	OCCURRED							
08/04/2014	NO	INCIDENT	OCCURRED							
08/05/2014	NO	INCIDENT	OCCURRED							
08/06/2014	NO	INCIDENT	OCCURRED							
08/07/2014	NO	INCIDENT	OCCURRED							
08/08/2014	NO	INCIDENT	OCCURRED							
08/09/2014	NO	INCIDENT	OCCURRED							
08/10/2014	NO	INCIDENT	OCCURRED							
08/11/2014	NO	INCIDENT	OCCURRED							
08/12/2014	NO	INCIDENT	OCCURRED							
08/13/2014	NO	INCIDENT	OCCURRED							
08/14/2014	NO	INCIDENT	OCCURRED							
08/15/2014	NO	INCIDENT	OCCURRED							
08/16/2014	NO	INCIDENT	OCCURRED							
08/17/2014	NO	INCIDENT	OCCURRED							
08/18/2014	NO	INCIDENT	OCCURRED							
08/19/2014	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
08/20/2014	NO	INCIDENT	OCCURRED							
08/21/2014	NO	INCIDENT	OCCURRED							
08/22/2014	NO	INCIDENT	OCCURRED							
08/23/2014	NO	INCIDENT	OCCURRED							
08/24/2014	NO	INCIDENT	OCCURRED							
08/25/2014	NO	INCIDENT	OCCURRED							
08/26/2014	NO	INCIDENT	OCCURRED							
08/27/2014	NO	INCIDENT	OCCURRED							
08/28/2014	NO	INCIDENT	OCCURRED							
08/29/2014	NO	INCIDENT	OCCURRED							
08/30/2014	NO	INCIDENT	OCCURRED							
08/31/2014	NO	INCIDENT	OCCURRED							
09/01/2014	NO	INCIDENT	OCCURRED							
09/02/2014	NO	INCIDENT	OCCURRED							
09/03/2014	NO	INCIDENT	OCCURRED							
09/04/2014	NO	INCIDENT	OCCURRED							
09/05/2014	NO	INCIDENT	OCCURRED							
09/06/2014	NO	INCIDENT	OCCURRED							
09/07/2014	NO	INCIDENT	OCCURRED							
09/08/2014	NO	INCIDENT	OCCURRED							
09/09/2014	NO	INCIDENT	OCCURRED							
09/10/2014	NO	INCIDENT	OCCURRED							
09/11/2014	NO	INCIDENT	OCCURRED							
09/12/2014	NO	INCIDENT	OCCURRED							
09/13/2014	NO	INCIDENT	OCCURRED							
09/14/2014	NO	INCIDENT	OCCURRED							
09/15/2014	NO	INCIDENT	OCCURRED							
09/16/2014	NO	INCIDENT	OCCURRED							
09/17/2014	NO	INCIDENT	OCCURRED							
09/18/2014	NO	INCIDENT	OCCURRED							
09/19/2014	NO	INCIDENT	OCCURRED							
09/20/2014	NO	INCIDENT	OCCURRED							
09/21/2014	NO	INCIDENT	OCCURRED							
09/22/2014	NO	INCIDENT	OCCURRED							
09/23/2014	NO	INCIDENT	OCCURRED							
09/24/2014	NO	INCIDENT	OCCURRED							
09/25/2014	NO	INCIDENT	OCCURRED							
09/26/2014	NO	INCIDENT	OCCURRED							
09/27/2014	NO	INCIDENT	OCCURRED							
09/28/2014	NO	INCIDENT	OCCURRED							
09/29/2014	NO	INCIDENT	OCCURRED							
09/30/2014	NO	INCIDENT	OCCURRED							
10/01/2014	NO	INCIDENT	OCCURRED							
10/02/2014	NO	INCIDENT	OCCURRED							
10/03/2014	NO	INCIDENT	OCCURRED							
10/04/2014	NO	INCIDENT	OCCURRED							
10/05/2014	NO	INCIDENT	OCCURRED							
10/06/2014	NO	INCIDENT	OCCURRED							
10/07/2014	NO	INCIDENT	OCCURRED							
10/08/2014	NO	INCIDENT	OCCURRED							
10/09/2014	NO	INCIDENT	OCCURRED							
10/10/2014	NO	INCIDENT	OCCURRED							
10/11/2014	NO	INCIDENT	OCCURRED							
10/12/2014	NO	INCIDENT	OCCURRED							
10/13/2014	NO	INCIDENT	OCCURRED							
10/14/2014	NO	INCIDENT	OCCURRED							
10/15/2014	NO	INCIDENT	OCCURRED							
10/16/2014	NO	INCIDENT	OCCURRED							
10/17/2014	NO	INCIDENT	OCCURRED							
10/18/2014	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
10/19/2014	NO	INCIDENT	OCCURRED							
10/20/2014	NO	INCIDENT	OCCURRED							
10/21/2014	NO	INCIDENT	OCCURRED							
10/22/2014	NO	INCIDENT	OCCURRED							
10/23/2014	NO	INCIDENT	OCCURRED							
10/24/2014	NO	INCIDENT	OCCURRED							
10/25/2014	NO	INCIDENT	OCCURRED							
10/26/2014	NO	INCIDENT	OCCURRED							
10/27/2014	NO	INCIDENT	OCCURRED							
10/28/2014	NO	INCIDENT	OCCURRED							
10/29/2014	NO	INCIDENT	OCCURRED							
10/30/2014	NO	INCIDENT	OCCURRED							
10/31/2014	NO	INCIDENT	OCCURRED							
11/01/2014	NO	INCIDENT	OCCURRED							
11/02/2014	NO	INCIDENT	OCCURRED							
11/03/2014	NO	INCIDENT	OCCURRED							
11/04/2014	NO	INCIDENT	OCCURRED							
11/05/2014	NO	INCIDENT	OCCURRED							
11/06/2014	NO	INCIDENT	OCCURRED							
11/07/2014	NO	INCIDENT	OCCURRED							
11/08/2014	NO	INCIDENT	OCCURRED							
11/09/2014	NO	INCIDENT	OCCURRED							
11/10/2014	NO	INCIDENT	OCCURRED							
11/11/2014	NO	INCIDENT	OCCURRED							
11/12/2014	NO	INCIDENT	OCCURRED							
11/13/2014	NO	INCIDENT	OCCURRED							
11/14/2014	NO	INCIDENT	OCCURRED							
11/15/2014	NO	INCIDENT	OCCURRED							
11/16/2014	NO	INCIDENT	OCCURRED							
11/17/2014	NO	INCIDENT	OCCURRED							
11/18/2014	NO	INCIDENT	OCCURRED							
11/19/2014	NO	INCIDENT	OCCURRED							
11/20/2014	NO	INCIDENT	OCCURRED							
11/21/2014	NO	INCIDENT	OCCURRED							
11/22/2014	NO	INCIDENT	OCCURRED							
11/23/2014	NO	INCIDENT	OCCURRED							
11/24/2014	NO	INCIDENT	OCCURRED							
11/25/2014	NO	INCIDENT	OCCURRED							
11/26/2014	NO	INCIDENT	OCCURRED							
11/27/2014	NO	INCIDENT	OCCURRED							
11/28/2014	NO	INCIDENT	OCCURRED							
11/29/2014	NO	INCIDENT	OCCURRED							
11/30/2014	NO	INCIDENT	OCCURRED							
12/01/2014	NO	INCIDENT	OCCURRED							
12/02/2014	NO	INCIDENT	OCCURRED							
12/03/2014	NO	INCIDENT	OCCURRED							
12/04/2014	NO	INCIDENT	OCCURRED							
12/05/2014	NO	INCIDENT	OCCURRED							
12/06/2014	NO	INCIDENT	OCCURRED							
12/07/2014	NO	INCIDENT	OCCURRED							
12/08/2014	NO	INCIDENT	OCCURRED							
12/09/2014	NO	INCIDENT	OCCURRED							
12/10/2014	NO	INCIDENT	OCCURRED							
12/11/2014	NO	INCIDENT	OCCURRED							
12/12/2014	NO	INCIDENT	OCCURRED							
12/13/2014	NO	INCIDENT	OCCURRED							
12/14/2014	NO	INCIDENT	OCCURRED							
12/15/2014	NO	INCIDENT	OCCURRED							
12/16/2014	NO	INCIDENT	OCCURRED							
12/17/2014	NO	INCIDENT	OCCURRED							

DATE	START TIME	END TIME	DURATION	AVERAGE VALUE	HI/LOW VALUE	SETPOINT	DIFFERENCE	CODE	EXPLANATION	CORRECTIVE ACTION
12/18/2014	NO	INCIDENT	OCCURRED							
12/19/2014	NO	INCIDENT	OCCURRED							
12/20/2014	NO	INCIDENT	OCCURRED							
12/21/2014	NO	INCIDENT	OCCURRED							
12/22/2014	NO	INCIDENT	OCCURRED							
12/23/2014	NO	INCIDENT	OCCURRED							
12/24/2014	NO	INCIDENT	OCCURRED							
12/25/2014	NO	INCIDENT	OCCURRED							
12/26/2014	NO	INCIDENT	OCCURRED							
12/27/2014	NO	INCIDENT	OCCURRED							
12/28/2014	NO	INCIDENT	OCCURRED							
12/29/2014	NO	INCIDENT	OCCURRED							
12/30/2014	NO	INCIDENT	OCCURRED							
12/31/2014	NO	INCIDENT	OCCURRED							

Opacity Monitoring Reports

COMPANY: VEOLIA WATER NORTH AMERICA
LOCATION: Naugatuck, CT
SOURCE: FB Incinerator
CEMS ID: 1234567
DATE CREATED: 01/07/2015 @ 07:47
PERIOD: 07/01/2014 - 12/31/2014

INCIDENT: INVALID OPACITY (%)

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/01/2014	03:45	12:59	555	13	PROCESS DOWN	N/A
07/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/04/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/05/2014	00:00	16:59	1020	13	PROCESS DOWN	N/A
07/06/2014	00:00	00:14	15	13	PROCESS DOWN	N/A
07/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/06/2014	15:15	15:29	15	13	PROCESS DOWN	N/A
07/06/2014	19:00	23:59	300	13	PROCESS DOWN	N/A
07/07/2014	00:00	06:29	390	13	PROCESS DOWN	N/A
07/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/08/2014	05:58	05:59	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	06:00	12:44	405	13	PROCESS DOWN	N/A
07/08/2014	12:45	13:53	69	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
07/08/2014	13:54	13:56	3	14	RECALIBRATION	N/A
07/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/09/2014	12:30	12:59	30	13	PROCESS DOWN	N/A
07/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/11/2014	02:45	06:59	255	13	PROCESS DOWN	N/A
07/11/2014	07:14	07:17	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/14/2014	00:31	07:29	419	13	PROCESS DOWN	N/A
07/14/2014	13:00	15:08	129	13	PROCESS DOWN	N/A
07/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/17/2014	07:36	07:38	3	14	RECALIBRATION	N/A
07/17/2014	07:54	09:08	75	13	PROCESS DOWN	N/A
07/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/21/2014	07:40	11:54	255	13	PROCESS DOWN	N/A
07/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/23/2014	06:24	10:48	265	13	PROCESS DOWN	N/A
07/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/25/2014	06:55	07:03	9	13	PROCESS DOWN	N/A
07/25/2014	07:04	07:08	5	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
07/25/2014	07:09	07:24	16	13	PROCESS DOWN	N/A
07/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/29/2014	09:17	12:54	218	13	PROCESS DOWN	N/A
07/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
07/30/2014	07:06	08:29	84	13	PROCESS DOWN	N/A
07/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
07/31/2014	06:53	07:12	20	13	PROCESS DOWN	N/A
08/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/01/2014	13:54	13:57	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/05/2014	09:44	10:11	388	13	PROCESS DOWN	N/A
08/05/2014	10:12	10:19	8	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/05/2014	10:20	12:18	119	13	PROCESS DOWN	N/A
08/05/2014	13:12	13:26	15	13	PROCESS DOWN	N/A
08/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/08/2014	07:26	07:29	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/14/2014	00:00	23:59	1440	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/15/2014	09:04	09:11	8	13	PROCESS DOWN	N/A
08/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/18/2014	04:57	13:56	540	13	PROCESS DOWN	N/A
08/19/2014	02:40	03:00	21	13	PROCESS DOWN	N/A
08/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/19/2014	06:30	06:33	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
08/19/2014	06:34	06:59	26	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	07:00	09:59	180	13	PROCESS DOWN	N/A
08/19/2014	10:00	10:49	50	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
08/19/2014	10:50	10:52	3	14	RECALIBRATION	N/A
08/19/2014	19:00	19:14	15	13	PROCESS DOWN	N/A
08/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/20/2014	07:00	11:59	300	13	PROCESS DOWN	N/A
08/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
08/22/2014	08:56	08:58	3	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
08/23/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/24/2014	04:20	11:50	451	13	PROCESS DOWN	N/A
08/25/2014	02:28	11:24	537	13	PROCESS DOWN	N/A
08/26/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/26/2014	09:23	16:29	427	13	PROCESS DOWN	N/A
08/27/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/27/2014	09:33	14:12	280	13	PROCESS DOWN	N/A
08/27/2014	14:51	14:57	7	14	RECALIBRATION	N/A
08/28/2014	06:46	13:23	398	13	PROCESS DOWN	N/A
08/28/2014	13:48	13:48	1	13	PROCESS DOWN	N/A
08/29/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/29/2014	07:03	09:24	142	13	PROCESS DOWN	N/A
08/30/2014	06:54	06:57	4	14	RECALIBRATION	N/A
08/31/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/01/2014	22:51	23:59	69	13	PROCESS DOWN	N/A
09/02/2014	00:00	07:28	449	13	PROCESS DOWN	N/A
09/02/2014	07:29	07:32	4	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/02/2014	07:33	13:10	338	13	PROCESS DOWN	N/A
09/02/2014	13:11	13:32	22	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/02/2014	13:33	13:35	3	14	RECALIBRATION	N/A
09/03/2014	06:54	06:57	4	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/03/2014	08:17	12:18	242	13	PROCESS DOWN	N/A
09/03/2014	12:19	13:46	88	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/03/2014	13:47	14:02	16	13	PROCESS DOWN	N/A
09/04/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/04/2014	09:34	13:32	239	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/05/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/05/2014	08:56	08:59	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/06/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/07/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/08/2014	06:15	12:59	405	13	PROCESS DOWN	N/A
09/08/2014	13:32	13:37	6	13	PROCESS DOWN	N/A
09/08/2014	15:04	16:16	73	13	PROCESS DOWN	N/A
09/09/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/09/2014	17:28	17:42	15	13	PROCESS DOWN	N/A
09/10/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	04:43	05:12	30	13	PROCESS DOWN	N/A
09/11/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/11/2014	09:01	11:59	179	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
09/12/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/13/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/14/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/15/2014	06:43	12:15	333	13	PROCESS DOWN	N/A
09/15/2014	22:38	23:59	82	13	PROCESS DOWN	N/A
09/16/2014	00:00	04:06	247	13	PROCESS DOWN	N/A
09/16/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/16/2014	13:39	13:48	10	13	PROCESS DOWN	N/A
09/16/2014	18:19	21:49	211	13	PROCESS DOWN	N/A
09/17/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/17/2014	23:05	23:59	55	13	PROCESS DOWN	N/A
09/18/2014	00:00	03:19	200	13	PROCESS DOWN	N/A
09/18/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/18/2014	08:05	08:51	47	13	PROCESS DOWN	N/A
09/18/2014	08:55	09:04	10	13	PROCESS DOWN	N/A
09/19/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/19/2014	08:10	08:13	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	08:57	11:25	149	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/19/2014	11:26	11:26	1	14	RECALIBRATION	N/A
09/19/2014	11:27	11:32	6	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
09/20/2014	06:54	06:57	4	14	RECALIBRATION	N/A
09/21/2014	03:42	05:04	83	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
09/21/2014	05:05	05:07	3	14	RECALIBRATION	N/A
09/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/21/2014	09:06	09:20	15	13	PROCESS DOWN	N/A
09/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/22/2014	09:20	09:34	15	13	PROCESS DOWN	N/A
09/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/23/2014	05:58	06:28	31	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	06:29	06:31	3	14	RECALIBRATION	N/A
09/23/2014	06:32	07:42	71	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/23/2014	07:43	07:45	3	14	RECALIBRATION	N/A
09/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/27/2014	05:58	07:58	121	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
09/27/2014	07:59	08:02	4	14	RECALIBRATION	N/A
09/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
09/29/2014	07:33	10:43	191	13	PROCESS DOWN	N/A
09/29/2014	11:44	11:58	15	13	PROCESS DOWN	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
09/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/01/2014	08:15	08:59	45	13	PROCESS DOWN	N/A
10/01/2014	13:30	13:44	15	13	PROCESS DOWN	N/A
10/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/03/2014	07:34	07:36	3	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
10/04/2014	05:30	06:29	60	13	PROCESS DOWN	N/A
10/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/07/2014	06:19	06:31	13	13	PROCESS DOWN	N/A
10/07/2014	07:26	07:42	17	13	PROCESS DOWN	N/A
10/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/11/2014	17:13	17:27	15	13	PROCESS DOWN	N/A
10/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/13/2014	05:58	06:05	8	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
10/13/2014	06:06	06:08	3	14	RECALIBRATION	N/A
10/13/2014	10:58	23:59	782	13	PROCESS DOWN	N/A
10/14/2014	00:00	02:41	162	13	PROCESS DOWN	N/A
10/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/14/2014	23:02	23:28	27	13	PROCESS DOWN	N/A
10/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/15/2014	05:58	05:58	1	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
10/15/2014	05:59	06:01	3	14	RECALIBRATION	N/A
10/15/2014	07:10	11:26	257	13	PROCESS DOWN	N/A
10/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/16/2014	16:52	16:53	2	13	PROCESS DOWN	N/A
10/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/17/2014	07:44	07:47	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
10/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/22/2014	11:03	11:21	19	13	PROCESS DOWN	N/A
10/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/25/2014	06:57	07:21	25	13	PROCESS DOWN	N/A
10/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A
10/31/2014	07:29	07:32	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
11/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/04/2014	05:58	06:35	38	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
11/04/2014	06:36	06:39	4	14	RECALIBRATION	N/A
11/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
11/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/09/2014	13:15	23:59	645	13	PROCESS DOWN	N/A
11/10/2014	00:00	23:59	1440	13	PROCESS DOWN	N/A
11/11/2014	00:00	02:57	178	13	PROCESS DOWN	N/A
11/11/2014	04:20	05:12	53	13	PROCESS DOWN	N/A
11/11/2014	05:24	05:30	7	13	PROCESS DOWN	N/A
11/11/2014	05:52	06:02	11	13	PROCESS DOWN	N/A
11/11/2014	13:05	13:23	19	13	PROCESS DOWN	N/A
11/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/12/2014	13:39	13:41	3	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
11/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/14/2014	08:50	08:53	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
11/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/19/2014	05:58	06:09	12	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
11/19/2014	06:10	06:12	3	14	RECALIBRATION	N/A
11/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/20/2014	13:20	13:37	18	13	PROCESS DOWN	N/A
11/20/2014	23:52	23:59	8	13	PROCESS DOWN	N/A
11/21/2014	00:00	01:36	97	13	PROCESS DOWN	N/A
11/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/26/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/26/2014	06:02	06:31	30	13	PROCESS DOWN	N/A
11/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/27/2014	16:18	16:32	15	13	PROCESS DOWN	N/A
11/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
11/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/01/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/01/2014	08:32	15:20	409	13	PROCESS DOWN	N/A
12/01/2014	17:23	22:29	307	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
12/01/2014	22:39	23:59	81	13	PROCESS DOWN	N/A
12/02/2014	00:00	00:38	39	13	PROCESS DOWN	N/A
12/02/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/03/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/04/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/05/2014	02:46	02:59	14	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:00	03:05	6	14	RECALIBRATION	N/A
12/05/2014	03:06	03:06	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:07	03:11	5	14	RECALIBRATION	N/A
12/05/2014	03:12	03:12	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:13	03:13	1	14	RECALIBRATION	N/A
12/05/2014	03:14	03:15	2	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:16	03:16	1	14	RECALIBRATION	N/A
12/05/2014	03:17	03:17	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:18	03:18	1	14	RECALIBRATION	N/A
12/05/2014	03:19	03:19	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:20	03:23	4	14	RECALIBRATION	N/A
12/05/2014	03:33	03:36	4	14	RECALIBRATION	N/A
12/05/2014	03:37	03:40	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	03:41	03:49	9	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
12/05/2014	03:50	03:51	2	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:52	03:54	3	14	RECALIBRATION	N/A
12/05/2014	03:55	03:55	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	03:56	04:02	7	14	RECALIBRATION	N/A
12/05/2014	04:03	04:10	8	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:11	04:15	5	14	RECALIBRATION	N/A
12/05/2014	04:16	04:17	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:18	04:20	3	14	RECALIBRATION	N/A
12/05/2014	04:21	04:25	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:26	04:38	13	14	RECALIBRATION	N/A
12/05/2014	04:39	04:45	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:46	04:49	4	14	RECALIBRATION	N/A
12/05/2014	04:50	04:54	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	04:55	05:01	7	14	RECALIBRATION	N/A
12/05/2014	05:02	05:06	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:07	05:10	4	14	RECALIBRATION	N/A
12/05/2014	05:11	05:28	18	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:29	05:31	3	14	RECALIBRATION	N/A
12/05/2014	05:32	05:54	23	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/05/2014	05:58	06:12	15	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:13	06:15	3	14	RECALIBRATION	N/A
12/05/2014	06:16	06:20	5	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:21	06:23	3	14	RECALIBRATION	N/A
12/05/2014	06:24	06:24	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	06:25	06:30	6	14	RECALIBRATION	N/A
12/05/2014	06:31	06:37	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:38	06:38	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	06:39	06:52	14	14	RECALIBRATION	N/A
12/05/2014	06:53	06:54	2	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	06:55	06:58	4	14	RECALIBRATION	N/A
12/05/2014	06:59	06:59	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	07:00	07:00	1	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/05/2014	07:01	07:06	6	14	RECALIBRATION	N/A
12/05/2014	07:07	07:10	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:11	07:21	11	14	RECALIBRATION	N/A
12/05/2014	07:22	07:37	16	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:38	07:39	2	14	RECALIBRATION	N/A
12/05/2014	07:40	07:40	1	16	PRIMARY MONITOR MALFUNCTION	CORRECTIVE MAINTENANCE PERFORMED ON
12/05/2014	07:41	07:43	3	14	RECALIBRATION	N/A
12/05/2014	07:44	07:47	4	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	07:48	07:50	3	14	RECALIBRATION	N/A
12/05/2014	07:51	08:28	38	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	08:29	08:31	3	14	RECALIBRATION	N/A
12/05/2014	08:32	09:07	36	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:08	09:11	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/05/2014	09:12	09:27	16	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:28	09:30	3	14	RECALIBRATION	N/A
12/05/2014	09:31	09:37	7	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	09:38	09:40	3	14	RECALIBRATION	N/A
12/05/2014	09:41	10:26	46	11	EXCESS DRIFT PRIMARY MONITOR	MANUALLY RECALIBRATE PRIMARY MONITO
12/05/2014	10:27	10:27	1	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
12/05/2014	10:28	10:30	3	14	RECALIBRATION	N/A
12/05/2014	10:33	10:36	4	14	RECALIBRATION	N/A
12/06/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/06/2014	07:25	07:39	15	13	PROCESS DOWN	N/A
12/07/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/08/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/08/2014	08:24	08:38	15	13	PROCESS DOWN	N/A
12/09/2014	05:55	05:57	3	14	RECALIBRATION	N/A

DATE	START TIME	END TIME	DURATION	CODE	EXPLANATION	CORRECTIVE ACTION
12/09/2014	08:09	08:13	5	18	DATA HANDLING SYSTEM MALFUNCTION	ROUTINE MAINTENANCE PERFORMED ON DA
12/10/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/11/2014	04:08	04:10	3	14	RECALIBRATION	N/A
12/11/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/12/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/12/2014	08:20	10:11	112	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/12/2014	10:12	10:16	5	14	RECALIBRATION	N/A
12/13/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/14/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/15/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/15/2014	23:35	23:59	25	13	PROCESS DOWN	N/A
12/16/2014	00:00	00:58	59	13	PROCESS DOWN	N/A
12/16/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/17/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/18/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/19/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/19/2014	07:42	07:49	8	13	PROCESS DOWN	N/A
12/19/2014	09:09	09:12	4	20	CORRECTIVE MAINTENANCE	ROUTINE MAINTENANCE PERFORMED ON CE
12/19/2014	14:41	14:49	9	13	PROCESS DOWN	N/A
12/20/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/21/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/22/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/22/2014	12:50	23:59	670	13	PROCESS DOWN	N/A
12/23/2014	00:00	01:20	81	13	PROCESS DOWN	N/A
12/23/2014	02:21	02:50	30	13	PROCESS DOWN	N/A
12/23/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/24/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/25/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/26/2014	00:11	11:55	705	13	PROCESS DOWN	N/A
12/27/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/28/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/29/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/29/2014	08:11	23:59	949	13	PROCESS DOWN	N/A
12/30/2014	00:00	01:55	116	13	PROCESS DOWN	N/A
12/30/2014	05:55	05:57	3	14	RECALIBRATION	N/A
12/31/2014	05:55	05:57	3	14	RECALIBRATION	N/A

INCIDENT SUMMARY: INVALID OPACITY (%)

CODE	HOURS	PERCENT	EXPLANATION
11	12.07	3.15	EXCESS DRIFT PRIMARY MONITOR
13	314.03	81.93	PROCESS DOWN
14	12.10	3.16	RECALIBRATION
16	1.83	0.48	PRIMARY MONITOR MALFUNCTION
18	38.03	9.92	DATA HANDLING SYSTEM MALFUNCTION
20	5.25	1.37	CORRECTIVE MAINTENANCE

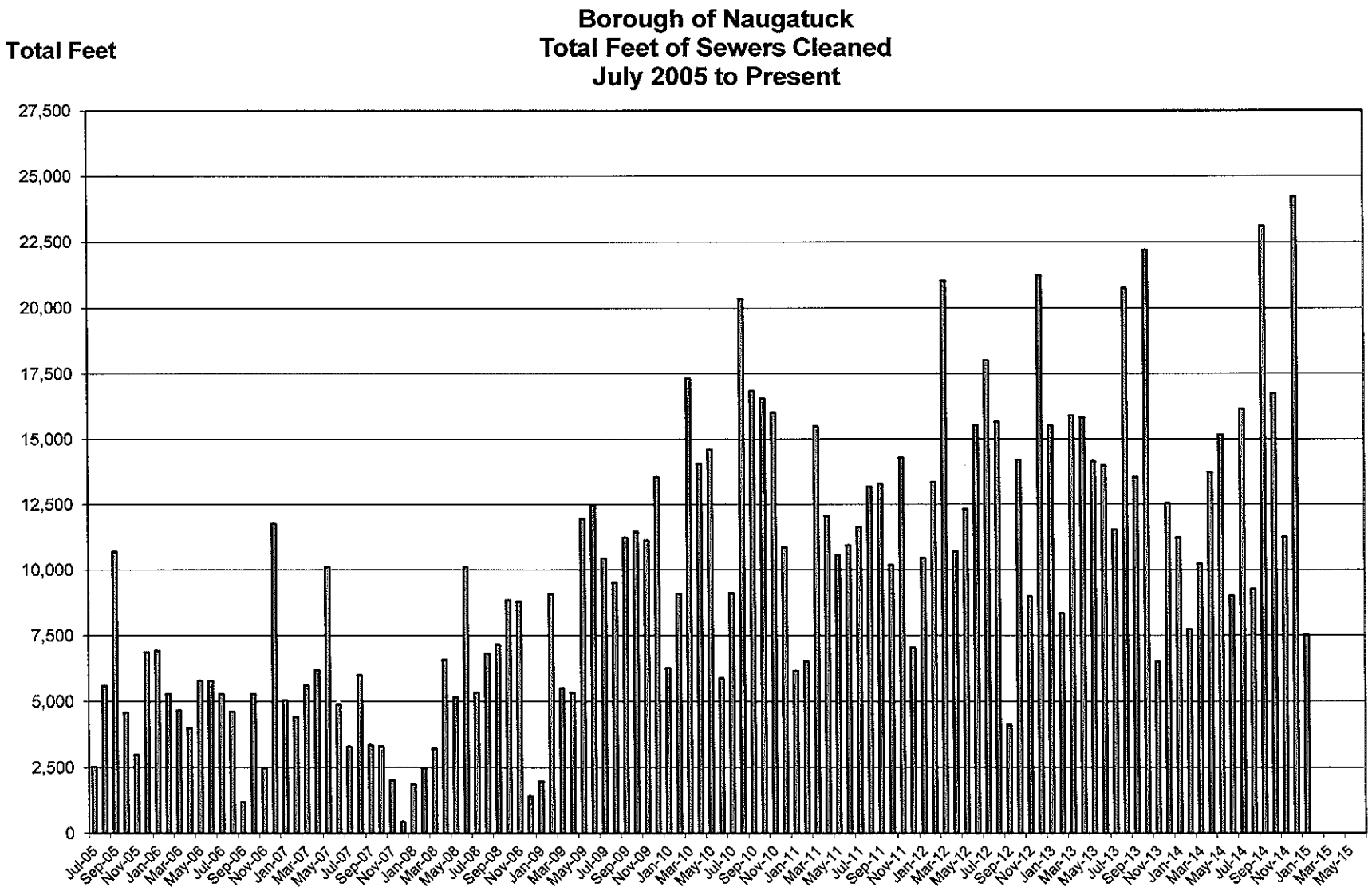
69.28

TOTAL HOURS: 383.32

4416 hrs
− 314.03 - process down

4101.97

$$\frac{4101.97 - 69.28}{4101.97} \times 100 = 98.31\%$$


Borough of Naugatuck
Total Feet of Sewers Cleaned
July 2005 to Present
Total Feet
27,500
25,000
22,500
20,000
17,500
15,000
12,500
10,000
7,500
5,000
2,500
0
Jul-05
Sep-05
Nov-05
Jan-06
Mar-06
May-06
Jul-06
Sep-06
Nov-06
Jan-07
Mar-07
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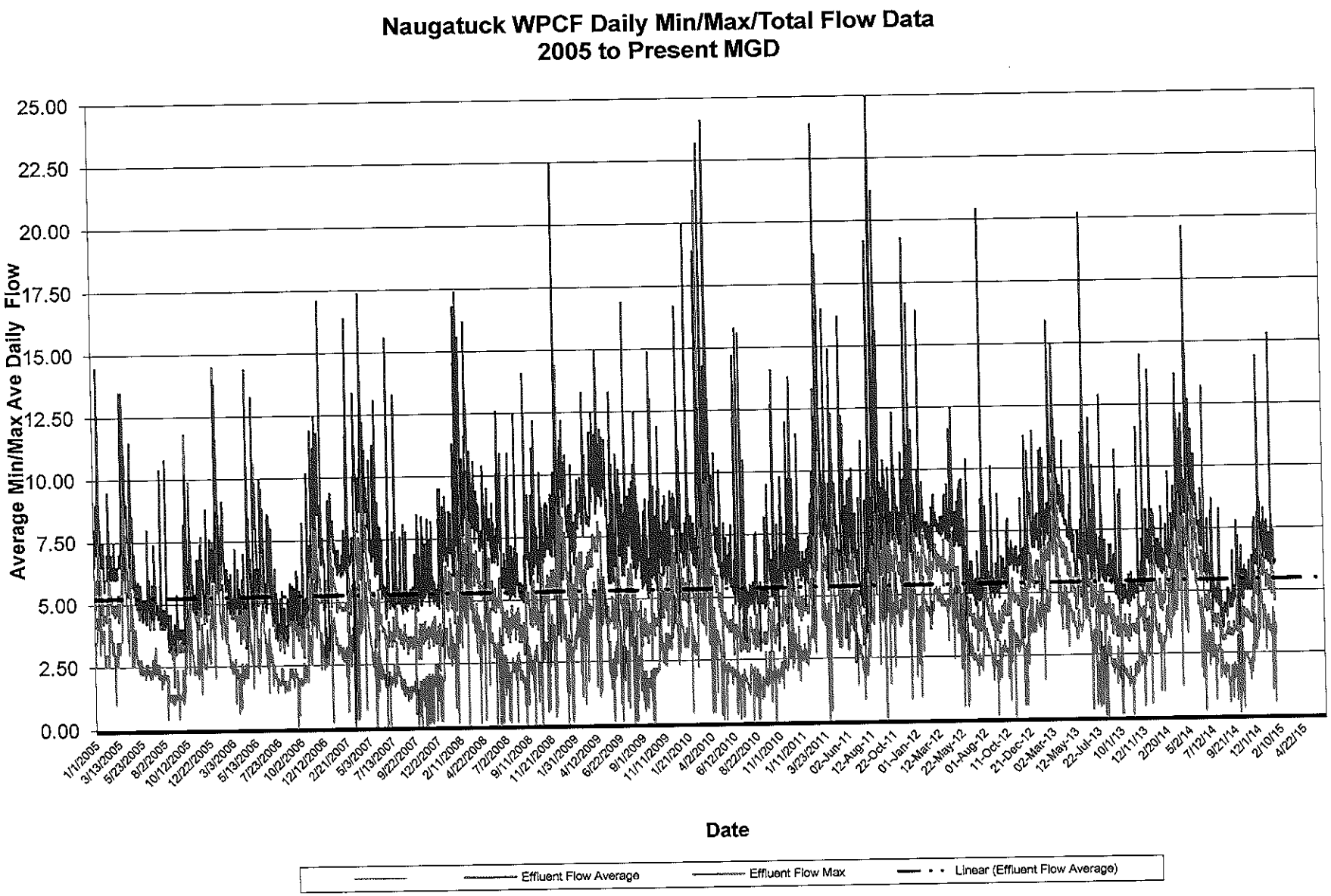
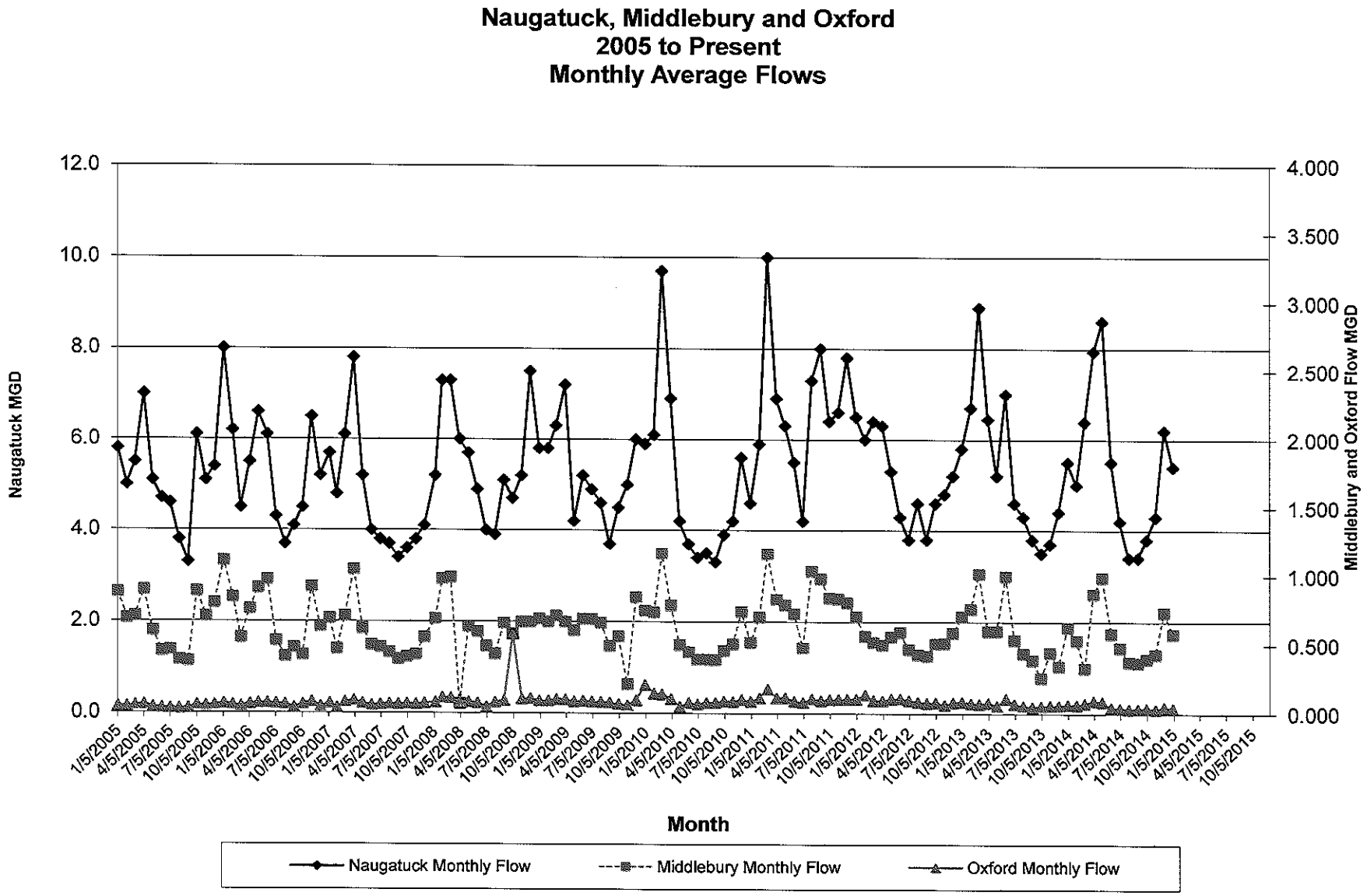
Mar-15
May-15


Naugatuck WPCF Daily Min/Max/Total Flow Data
2005 to Present MGD
Average Min/Max Ave Daily Flow
25.00
22.50
20.00
17.50
15.00
12.50
10.00
7.50
5.00
2.50
0.00
1/1/2005
3/13/2005
5/23/2005
8/2/2005
10/12/2005
12/22/2005
3/3/2006
5/13/2006
7/23/2006
10/2/2006
12/12/2006
2/21/2007
5/3/2007
7/13/2007
9/22/2007
12/2/2007
2/11/2008
4/22/2008
7/2/2008
9/11/2008
11/21/2008
1/31/2009
4/12/2009
6/22/2009
9/1/2009
11/11/2009
1/21/2010
4/2/2010
6/12/2010
8/22/2010
11/1/2010
1/11/2011
3/23/2011
02-Jun-11
12-Aug-11
22-Oct-11
01-Jan-12
12-Mar-12
22-May-12
01-Aug-12
11-Oct-12
21-Dec-12
02-Mar-13
12-May-13
22-Jul-13
10/1/13
12/11/13
2/20/14
5/2/14
7/12/14
9/21/14
12/1/14
2/10/15
4/22/15
Date
Effluent Flow Average
Effluent Flow Max
Linear (Effluent Flow Average)


Naugatuck, Middlebury and Oxford
2005 to Present
Monthly Average Flows
Naugatuck MGD
Middlebury and Oxford Flow MGD
Month
Naugatuck Monthly Flow
Middlebury Monthly Flow
Oxford Monthly Flow

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

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January 7, 2015

Electric Cable Compounds, Inc.
108 Rado Drive
Naugatuck, CT 06770

Attn: Gene Fridland, President

Re: Voluntary Self-Disclosure

Dear Mr. Fridland:

This is in response to your letters dated October 28, 2014 and December 3, 2014, which were submitted pursuant to the Department's *Policy on Incentives for Self-Policing* (the "*Self-Policing Policy*"). You indicated that Electric Cable Compounds ("ECC") has been maintaining a discharge of approximately 13,000 gallons per day of process wastewater to the Borough of Naugatuck Publicly Owned Treatment Works ("POTW"), without having obtained the necessary discharge permit from the Department. Also, ECC has failed to register for coverage under the Department's *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (the "*Industrial Stormwater GP*").

One area that must still be addressed is correction of the violations. ECC anticipated completing its Stormwater Pollution Prevention Plan and applying for registration under the *Industrial Stormwater GP* during December 2014. To obtain the necessary permit for the discharge of process wastewater to the sanitary sewer system, ECC must submit a *Permit Application for Wastewater Discharges from Manufacturing, Commercial, and Other Activities.* The December 3rd letter stated "As DEEP is aware, the process of completing and submitting a SPDES permit application and issuing a permit is expected to take several months." and requested an extension of time to correct this violation. This request is open-ended. Therefore, by January 28, 2015, please submit documentation specifically indicating when the permit application will be submitted. Also, please identify when each discharge began.

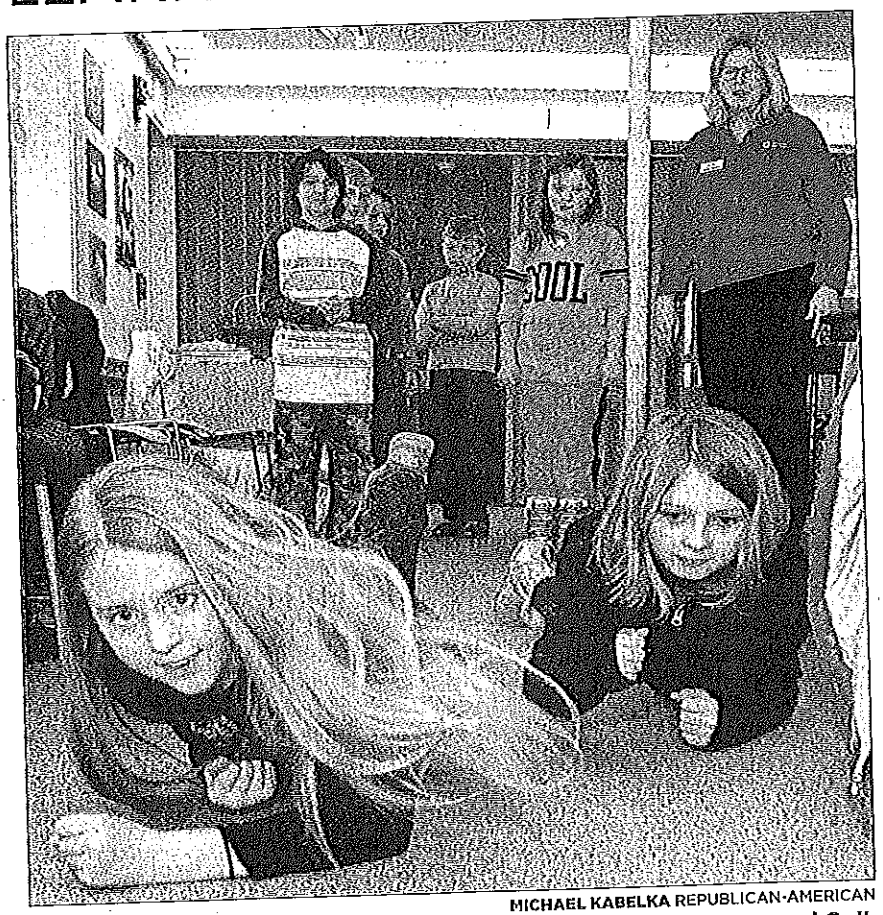
In accordance with section B.1. of the *Self-Policing Policy*, the Water Permitting and Enforcement Division ("WPED") is not recommending action to seek gravity-based penalties for the violations that have been disclosed. However, WPED must still assess the need to take action to recover the economic benefit that ECC obtained by failing to comply with the applicable statutes and regulations. This assessment will be conducted after the permit applications have been received and reviewed, and monitoring requirements for the permits have been developed.

1-26-15 News

JIM SHANNON REPUBLICAN-AMERICAN

Members of the B'nai Israel youth choir sing 'One Day' during a Martin Luther King Jr. Day Celebration on Sunday at B'nai Israel in Southbury. Educator and activist Leslie Alexander, of Oxford, also gave a keynote address titled 'Educate, Agitate, Organize.'

LEARNING FIRE SURVIVAL



MICHAEL KABELKA REPUBLICAN-AMERICAN

Madison Dannenhoffer, left, and Jamie Paige practice the 'Get Low and Go!' technique for navigating in a room filled with smoke during an American Red Cross emergency preparedness workshop for children at the Woodbury Library on Saturday afternoon. About 20 children participated in the event, known also as the Pillowcase Project. The workshops are inspired by a Red Cross chapter leader in New Orleans who learned that some students had used pillowcases to carry their belongings in an emergency.

Sewer rates could rise in Middlebury

BY BILL BITTAR
REPUBLICAN-AMERICAN

MIDDLEBURY — If the Water Pollution Control Authority approves new sewer rates, most homeowners will shell out $180 more per year.

Citing budget shortfalls caused by $4 million in sewage station upgrades, Middlebury's share of $80 million worth of Naugatuck's wastewater treatment facility upgrades and slow growth in new assessments, the WPCA is proposing to raise sewer use rates across the board.

Chairman Robert Smith said the public may speak during a hearing to be held in room 26 of Shepardson Community Center this Tuesday at 7:30 p.m., before the authority votes on the fee structure.

During a WPCA meeting on Oct. 21, Smith said the last time he looked at the rates of state municipalities, Middlebury was the lowest with the next closest community's rate at around $300 per year.

"I don't want to raise rates on residential people in these tough economic times," he said. "We tried to hold off for as long as we can, but now we have to raise the rates."

See RATES, Page 4B

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JIM SHANNON REPUBLICAN-AMERICAN

Filogonio 'Philly' Hernandez, right, a sous chef at Chute Gate Steak House in Thomaston, holds his granddaughter Melissa Hernandez, 6, who he is raising, while chatting with his son, Marine Isaias Hernandez of San Antonio, left, during a Sunday fundraiser at the restaurant. Proceeds will benefit Filogonio Hernandez, whose wife recently died of cancer, and assist the family with medical bills and raising Melissa. Isaias Hernandez was severely injured in Afghanistan.

RATES: WPCA seeks higher fees

Residential rates would go from $100 to $280 and residential duplex and out-of-town residences would both rise from $200 to $380.

Michael Angieri, an engineer for the WPCA, said Middlebury's last residential rate increase was in 1992 when the annual fee was $50. He has said the new rates will be in line with other communities.

Town businesses are also facing increases.

Restaurants paying $25 per seat would pay $51 per seat and eateries with no seats would see their rate go up from $600 to $720.

Grocery store rates would increase from $300 to $400 per $1,000 square-feet, retail from $150 to $250, medical office from $400 to $600, retail from $150 to $250 and general offices from $300 to $400.

Patient care facilities would rise from $300 to $450 per bed.

Assembly and light manufacturing would go from $300 to $400 per 1,000 square feet.

Public and private (day) schools, nursery schools and day care would go from $15 to $30 per student and private schools with dorms would pay $200 per student — up from $100.

Region 15's central offices would go from $100 to $200 per 1,000 square feet,

Town facilities would increase from $27,670 to $38,325 a year.

Places of worship would rise from $50 to $150 per 1,000 square feet.

The dog pound would go from $500 to $700.

Athletic facilities would increase from $600 to $800 per 1,000 square feet and commercial pools from $1,500 to $2,500 per 10,000 gallons.

Contact Bill Bittar at bbittar@rep-am.com.

ICY: Crashes close roads, highways

Serving Waterbury For Over 40 Years
TOWN PLOT
supermarket IGA
Store Hours:
MON-FRI: 8am-8pm, SAT: 8am-7pm, SUN: 8am-5pm
Monday thru Thursday, Jan 22
While Supply Lasts Only • Sorry, No Rainchecks
4 DAY SALE
MONDAY thru THURSDAY
USDA Inspected Grade "A", Skinless, Avg Wt Bag
5 LB BAG BNLS CHICKEN BREASTS
Reg Price $4.99
$1.99 Lb
Cookin' Good Premium Sections Raw Reape-Ready, Frozen
5 LB BAG CHICKEN WINGS
HOT PRICE
$9.99 Bag
Premium Fully Trimmed, 3 Lbs Avg Wt
ST LOUIS STYLE SPARERIBS
Reg Price $4.99
$2.99 Lb