Report No. 21830

ORTECH
a Kontrol Energy Company

Report:

Mercury Emission Testing
at the Clean Harbors Sarnia Facility (January 2018)

Date: February 8, 2018



Report:

Mercury Emission Testing
at the Clean Harbors Sarnia Facility (January 2018)

Submitted to: Erica Carabott
Facility Compliance Manager
Clean Harbors Canada Inc.
4090 Telfer Road, Corunna, Ontario N0N 1G0
Tel: (519) 864-3890
Cell: (519) 328-3394
E-mail: carabott.erica@cleanharbors.com

Prepared by: Tina Sanderson, B.Sc.
Senior Specialist, Emission Testing
ORTECH Consulting Inc.
804 Southdown Rd., Mississauga, Ontario L5J 2Y4
Tel: (905) 822-4120, Ext. 522
Email: tsanderson@ortech.ca

Report No.: 21830
10 pages, 5 Appendices

Revision History

Version	Date	Summary Changes/Purpose of Revision
1	February 8, 2018	None

Table of Contents

EXECUTIVE SUMMARY

ORTECH Consulting Inc. (ORTECH) was requested by Clean Harbors Canada Inc. (Clean Harbors) to conduct a mercury emission testing program at the incineration facility located in Corunna, Ontario.

Mercury emission tests were performed at the Incinerator Exhaust Stack following the procedures outlined in US EPA Method 30B, "*Determination of Total Vapour Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps*" to determine the amount of total vapour phase mercury present in the gas stream.

The test method states that the recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling. Six pairs of tube samples were collected during one day of testing on January 10, 2018. To ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method one tube from each of the six pairs of adsorbent tubes were spiked with increasing amounts of mercury, ranging from 100 ng to 2600 ng, by the analytical laboratory prior to commencing the test program.

The results of three of the pairs of tubes, including the spike that best represented the mercury concentration in the stack gas at the time of testing, are reported.

The average combustion gas values for each test period were obtained from the plant continuous emission monitoring (CEM) system. The average oxygen concentration for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

The average mercury emission data from the triplicate total vapour phase mercury tests reported is provided below:

Mercury Parameter	Average
Dry Reference Concentration ($\mu g/Rm^3$)*	2.33
Dry Adjusted Concentration ($\mu g/Rm^3$)**	2.26

* reference conditions are 25°C and 1 atmosphere

** at 25°C and 1 atmosphere, adjusted to 11% oxygen

During the emission testing program, the powdered activated carbon (PAC) injection rate was 22.4 lb/hr.

1. INTRODUCTION

ORTECH Consulting Inc. (ORTECH) was requested by Clean Harbors Canada Inc. (Clean Harbors) to conduct a mercury emission testing program at the incineration facility located in Corunna, Ontario.

Mercury emission tests were performed at the Incinerator Exhaust Stack following the procedures outlined in US EPA Method 30B to determine the amount of total vapour phase mercury present in the gas stream.

The average combustion gas values for each test period were obtained from the plant continuous emission monitoring (CEM) system. The average oxygen concentration for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

Six pairs of adsorbent tubes were collected during one day of sampling on January 10, 2018. The spike tubes from each test pair were spiked with increasing amounts of mercury, ranging from 100 ng to 2600 ng, prior to commencing the test program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method. The test method states that the recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling. The results of three of the pairs of tubes, including the spike that best represented the mercury concentration in the stack gas at the time of testing, are reported.

All tables referenced herein are included in Appendix 1.

2. SAMPLING LOCATION

The Incinerator Exhaust Stack has an inside diameter of 1.52 meters at the sampling platform and 1.22 meters at the stack exit. The stack height above grade is 68.6 meters.

Mercury sampling was conducted at the breeching connecting the induced draft fan to the stack. Sampling was conducted at a single point in the center of the duct.

Previous testing programs conducted by ORTECH at the Clean Harbors Incinerator Exhaust Stack have shown that there is no stack gas stratification between the breeching connecting the induced draft fan to the stack and the stack sampling platform location.

3. SAMPLING METHODOLOGY

Mercury emission tests were performed following the procedures outlined in US EPA Method 30B, "Determination of Total Vapour Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps".

ORTECH used a dual probe assembly so that the mercury traps are positioned 1 to 2 inches apart. Each probe was heated to approximately 135°C to prevent condensation of the stack gas on the sampling media. Each mercury trap was also specially designed for sampling at wet sources. Each tube had an extended section of glass to allow for the heating of the stack gas before it came into contact with the sampling media.

The sampling methodology is briefly described as follows. Each sorbent trap was removed from the clean sorbent trap storage container, the end caps were removed from the traps and the traps were attached to the end of the sampling probe and leak checked. The probe was inserted into the stack and the sample pumps were started. Stack gas was drawn through the traps and into the sampling probe and the sampled gas stream then passed through a series of empty impingers followed by a silica gel trap to remove any remaining traces of moisture prior to the pump and dry gas meter.

A run consisted of paired mercury traps, identified as either A or B, sampled simultaneously. In each tube pair one of either the A or B tube was spiked with a known quantity of mercury. Due to the variability in the mercury concentration in the stack gas and the necessity to have the spiked tubes prepared at least two weeks in advance of the testing program, six pairs of tubes were used for the sampling program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method.

Each test run was sixty minutes in duration at an approximate sampling rate of one liter per minute.

At five minute time increments throughout each test, the following information was measured and recorded for each sampling train:

- Elapsed sampling time
- Dry gas meter volume
- Dry gas meter temperatures
- Control module orifice pressure
- Sampling pump vacuum

At the start and finish of each sampling run the sampling trains were leak-checked. The leakage rate for each train must not exceed 4% of the average sampling rate for the collection period. If a trap pair did not have an acceptable initial leak check, the leak was found and repaired and/or the traps were replaced with a new pair until no leak was discernible. All the leak checks performed for the traps used showed no discernible leak through the test train.

Field testing data sheets for the mercury tests are provided in Appendix 2.

All of the sampling equipment used during the emission testing program was calibrated following the applicable reference method. Equipment calibration data is provided in Appendix 3.

4. ANALYSIS METHODOLOGY

At the end of each successful sampling run, the mercury traps were removed from the test train, capped and placed in their appropriate sample container. Each trap was labeled prior to being shipped to Ohio Lumex for analysis.

The traps were analyzed by thermal decomposition with atomic absorption following the procedures detailed in US EPA Method 7473 (direct thermal desorption with atomic absorption and no gold amalgamation). The method is applicable for total mercury "direct" testing of 40 CFR Part 75 Appendix K and EPA Method 30B sorbent traps.

The analysis is briefly described as follows. The sorbent trap tube end cap is removed; the glass wool plug closest to the appropriate carbon bed is carefully removed and separated from the carbon fraction. The sorbent is transferred into a quartz ladle and then covered with anhydrous sodium carbonate. The ladle is inserted into the heated analyzer thermo catalytic conversion chamber. Mercury is converted from a bound state to the atomic state by thermal decomposition in the furnace and is then detected by atomic absorption. The mercury concentration is measured and recorded using an automated data acquisition system. Both the glass wool plug and the sorbent of each bed are analyzed for the trap and the final mercury mass is the sum of the measurements.

The Ohio Lumex analytical report for total vapour phase mercury is provided in Appendix 4.

5. QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The analysis of samples for mercury was performed by thermal decomposition with atomic absorption. Specific analytical QC procedures for the mercury analysis are summarized below:

- Calibrations are performed on the day of the analysis.
- Three or more calibration points are used for the calibration curve.
- The field samples analyzed must fall within a calibrated range.
- For each calibration curve, $R^2 \geq 0.99$, and the analyzer response must be within ± 10% for each standard used in the calibration.
- Following calibration, a second source standard is analyzed. The measured value of the independently prepared standard must be within ± 10% of the expected value.
- A blank analysis is conducted prior to analyzing the samples and must be less than the method detection limit.
- At the end of each set of analysis, a calibration standard is tested which must be within ±10% of the expected value.

Six unspiked mercury traps and six pre-spiked mercury traps were ordered approximately two weeks before the field testing program from Ohio Lumex. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 2600 ng in order to ensure that at least one of the traps met the spiking criterion stated in the test method. The recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling according to the test method. The spiking levels for the field recovery traps was estimated using mercury emission data from previous testing programs conducted between 2014 and 2017. The pre-spiked mercury trap for Test No. 2 (250 ng) was used for spike recovery determination as the concentration best fit the requirements of the QA/QC criteria. The average mercury collected for Test No. 2, Test No. 4 and Test No. 5 (156 ng) was within 50% of the spike concentration (250 ng). The results from Test No. 1 and Test No. 3 were not used due to a suspected spiking error in the pre-spiked mercury traps that cannot be verified post-analysis.

The field spike recovery provides specific verification of the performance of the combined sampling and analytical approach for the test program. Six sets of paired samples, one of each pair which is spiked with a known quantity of mercury, were collected. The samples were analyzed and the spike concentration for Test No. 2 fell closest to the spike range criterion stated in the test method. The spike recovery for Test No. 2 was 108%. US EPA Method 30B requires the spike recovery to be between 85% and 115%.

US EPA Method 30B requires the paired sorbent trap agreement to be ≤10% relative deviation for mercury concentrations greater than 1 µg/Rm^3 or ≤20% relative deviation for mercury concentrations less than 1 µg/Rm^3. If the paired trap agreement is greater than the above stated limits the run is not valid. All of the traps collected during the test program had concentrations greater than 1 µg/Rm^3. The average dry adjusted mercury concentration ranged from a low of 1.63 µg/Rm^3 (Tube Pair No. 3, not reported) to a high of 2.74 µg/Rm^3 (Tube Pair No. 1, not reported) for the six tests performed. The paired trap agreement was 5.8% for Test No. 2, 8.3% for Test No. 4, and 5.4% for Test No. 5.

6. RESULTS

Six mercury runs were collected during one day of sampling on January 10, 2018. A run consisted of paired mercury traps, identified as either A or B, sampled simultaneously. The spike tubes from each test pair were spiked with increasing amounts of mercury, ranging from 100 ng to 2600 ng, prior to commencing the test program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method. The results for Test No. 2, Test No. 4 and Test No. 5 are reported. The results from Test No. 1 and Test No. 3 were not used due to a suspected spiking error in the pre-spiked mercury traps that cannot be verified post-analysis.

The sampling schedule is summarized in Table 1. This information includes test dates and times for each of the mercury runs performed. All test times match plant time (i.e. daylight savings time).

Mercury emission sample analyses for Test No. 2, Test No. 4 and Test No. 5 are provided in Table 3. Mercury was detected in Section 1 of each trap in quantities greater than the method detection limit (0.46 ng) in all of the traps. Mercury was also collected in Section 2 in three of the six traps in quantities greater than or equal to the method detection limit. However, the amount detected in Section 2 was less than 0.8% of the mercury collected in Section 1, indicating that there was no breakthrough or potential loss of mercury. US EPA Method 30B states that ≤10% of the total mercury collected should be collected in Section 2 for mercury concentrations greater than 1 µg/Rm^3 or ≤20% of the total mercury collected should be collected in Section 2 for mercury concentrations less than 1 µg/Rm^3.

Included in Table 2 are the mercury concentration calculations for Test No. 2, Test No. 4 and Test No. 5. The average oxygen concentration measured by the Clean Harbors CEM system for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

Six unspiked mercury traps and six pre-spiked mercury traps were ordered approximately two weeks before the field testing program from Ohio Lumex. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 2600 ng in order to ensure that at least one of the traps met the spiking criterion stated in the test method. The pre-spiked mercury traps for Test No. 2 (250 ng) was used for spike recovery determination as the concentrations best fit the requirements of the QA/QC criteria.

US EPA Method 30B states that it is acceptable to use the field recovery runs as test runs for emission testing as long as they meet the paired trap agreement criteria. The mass of the mercury spike initially present in each of the spiked traps was subtracted from the total mercury collected in Section 1 of the trap. The difference represents the amount of mercury in the stack gas.

The paired trap agreement was 5.8% for Test No. 2, 8.3% for Test No. 4, and 5.4% for Test No. 5. The mercury emission data from the total vapour phase mercury tests is provided below:

Mercury Parameter	Test 2	Test 4	Test 5	Average
Dry Reference Conc. (µg/Rm^3)*	2.50	1.93	2.57	2.33
Dry Adjusted Conc. (µg/Rm^3)**	2.54	1.87	2.38	2.26

* Reference conditions are 25°C and 1 atmosphere

** At 25°C and 1 atmosphere, adjusted to 11% oxygen

The incinerator exhaust stack mercury concentration limit as stated in Environmental Compliance Approval No. 8-1030-94-006 (formerly Certificate of Approval (Air) No. 8-1030-94-006) is 50 µg/Rm^3 adjusted to 11% oxygen. The mercury concentrations were below this limit during the test program.

The spiked mercury trap recovery calculations for Test No. 2 are shown in Table 3; the spike recovery for Test No. 2 was 108.0%. US EPA Method 30B requires the spike recovery to be between 85% and 115%.

7. FACILITY PROCESS DATA

Incinerator process data was supplied by Clean Harbors personnel for the emission test periods. The process data is provided in Appendix 5 as average values for each test for the following process parameters:

- incinerator feed rates (rich, lean, emulsion and alkaline streams)
- volumetric flowrates (secondary air and stack gases)
- temperatures (primary zone, secondary zone, spray dryer inlet and outlet, stack gases)
- pressures (burner, spray dryer outlet, baghouse differential)
- combustion gas stack concentrations (CO, HCl, CO_2, H_2O, THC, O_2, SO_2)
- stack gas opacity
- carbon injection rate

During the emission testing program, the average powdered activated carbon (PAC) injection rate was 22.4 lb/hr.

APPENDIX 1

Data Tables
(2 pages)

Table 1: Mercury Test Schedule

Test Number	Test Date	Sampling Period		Sampling Time
		Start	Finish	min
1	January 10, 2018	9:15	10:15	60
2	January 10, 2018	10:25	11:25	60
3	January 10, 2018	11:35	12:35	60
4	January 10, 2018	12:53	13:53	60
5	January 10, 2018	14:45	15:45	60
6	January 10, 2018	15:55	16:55	60

Note: All test times match plant time (i.e. daylight savings time).

Table 2: Mercury Emission Data

Test/Run No.	Tube ID	Mercury Collected Section 1	Mercury Collected Section 2	Mercury Collected Total	Dry Gas Volume Sampled	Mercury Concentration Dry Reference	Mercury Concentration Dry Adjusted	Paired Trap Agreement
		ng	ng	ng	Rm^3*	µg/Rm^3*	µg/Rm^3**	%
2	A	148.2	<0.46	148	0.0629	2.36	2.40	-
	B***	183.0	<0.46	183	0.0692	2.65	2.69	-
	Average					2.50	2.54	5.8
4	A	112.4	0.8	113	0.0640	1.77	1.71	-
	B***	148.7	0.7	149	0.0715	2.09	2.02	-
	Average					1.93	1.87	8.3
5	A***	165.0	1.9	167	0.0616	2.71	2.51	-
	B	174.8	<0.46	175	0.0720	2.43	2.25	-
	Average					2.57	2.38	5.4
Average				156		2.33	2.26	

Note: Concentration data is only reported for three tests as required by US EPA Method 30B

* At 25°C and 1 atmosphere
** At 25°C and 1 atmosphere, adjusted to 11% oxygen
*** Spiked tube, mercury collected corrected for the original spike (250 ng for Test No. 2, 800 ng for Test No. 4, and 1400 ng for Test No. 5).

Table 3: Mercury Spike Tube Recovery

Test No.	Spike Tube Total Collected	Spike Tube Volume Sampled	Spike Tube Mercury Concentration	Unspike Tube Total Collected	Unspike Tube Volume Sampled	Unspike Tube Mercury Concentration	Spike Concentration	Spike Recovery
	ng	Rm^3*	ng/Rm^3*	ng	Rm^3*	ng/Rm^3*	ng/Rm^3*	%
2	433	0.0692	6260	148.2	0.0629	2356	3904	108.0
4	949	0.0715	13282	113.2	0.0640	1770	11513	NA
5	1567	0.0616	25422	174.8	0.0720	2429	22993	NA
Average								108.0

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations were 250 ng for Test No. 2, 800 ng for Test No. 4, and 1400 ng for Test No. 5.
"NA" Not Applicable. Spike recovery was not calculated as spike concentration was outside the range specified in US EPA Method 30B.

APPENDIX 2

Mercury Field Data Sheets
(7 pages)

Clean Harbors, Sarnia
Mercury Tube Sampling Train
Sample Volume Corrections

Incinerator Exhaust Stack

Test # - Tube (tube pair field ID)	DGMCF	Initial DGM Reading (L)	Final DGM Reading (L)	Actual Vol. Sampled (L)	Barometric Pressure (in Hg)	Average DGM Pressure del H (in H_2O)	Average DGM Temperature (°C)	Corrected Volume (L)*	Corrected Volume (Rm^3)*
T1A OL421340 Spiked	0.979	36.00	102.20	66.20	29.5	2.6	7.9	68.17	0.0682
T1B OL445633	1.001	69.20	132.30	63.10	29.5	1.5	3.5	67.31	0.0673
T2A OL445644	0.979	3.20	65.50	62.30	29.5	2.6	13.2	62.91	0.0629
T2B OLC038415 Spiked	1.001	33.30	98.30	65.00	29.5	1.6	4.0	69.17	0.0692
T3A OL426826 Spiked	0.979	67.10	130.00	62.90	29.4	2.6	7.6	64.69	0.0647
T3B OL445572	1.001	22.00	94.00	72.00	29.4	1.6	4.9	76.28	0.0763
T4A 445635	0.979	54.30	117.00	62.70	29.4	2.6	9.5	63.96	0.0640
T4B OL331377 Spiked	1.001	97.20	165.00	67.80	29.4	1.6	5.9	71.48	0.0715
T5A OL335256 Spiked	0.979	19.20	79.40	60.20	29.3	2.6	7.9	61.64	0.0616
T5B OL445603	1.001	72.30	140.30	68.00	29.3	1.5	4.0	71.98	0.0720
T6A OL445677	0.979	80.00	139.80	59.80	29.3	2.6	9.8	60.79	0.0608
T6B OL336417 Spiked	1.001	40.70	104.10	63.40	29.3	1.5	5.0	66.85	0.0668

* dry at 25°C and 1 atmosphere

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	1

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Train A

Tube Identification:	OL 421340	Spiked (Yes) No	Measuring Device	MII
Spike Concentration	100 ng		Control Module	10117
			Barometer	ENV. CAN.
			Barometric Pressure	29.47

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	369	6	2.6	2
5	41.8	7	2.6	5
10	36.7	8	2.6	6
15	51.5	9	2.6	7
20	56.9	8	2.6	7
25	62.3	8	2.6	7
30	67.8	8	2.6	8
35	73.2	8	2.6	9
40	78.4	8	2.6	9
45	83.9	8	2.6	10
50	89.5	8	2.6	10
55	95.1	8	2.6	10
60	100.7	8	2.6	10

Start Time:	915	Initial Leak Check	2.01 LPM@	17 "Hg	DGMCF: 0.979
Finish Time:	1015	Final Leak Check	2.01 LPM@	15 "Hg	Sample Volume: 65.3
					Average DGM Temp: 8.4
					Average DGM Δ H: 2.6

Train B

Tube Identification:	OL 445633	Spiked Yes (No)	Measuring Device	MII
Spike Concentration	— ng		Control Module	10211

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	69.2	1	1.5	2
5	75.0	2	1.5	4.5
10	79.0	3	1.5	5
15	84.2	3	1.5	6
20	89.5	4	1.5	6
25	94.8	4	1.5	6
30	100.3	4	1.5	6
35	105.6	4	1.5	6
40	109.5	4	1.5	7.5
45	114.00	4	1.5	7.5
50	122.1	4	1.5	7
55	127.7	4	1.5	7
60	132.3	4	1.5	7

Start Time:	915	Initial Leak Check	2.01 LPM@	23 "Hg	DGMCF: 1.001
Finish Time:	1015	Final Leak Check	2.01 LPM@	15 "Hg	Sample Volume: 63.1
					Average DGM Temp: 3.5
					Average DGM Δ H: 1.5

Operator:	RD M

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	2

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Train A

Tube Identification:	OLC445614	Spiked Yes (No)	
Spike Concentration	— ng		

Measuring Device	MII
Control Module	10117
Barometer	ENV. CAN.

Barometric Pressure	29.45

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	3.7	10	2.6	5
5	8.4	10	2.6	5
10	13.6	14	2.6	5
15	18.8	14	2.6	5
20	23.9	14	2.6	5
25	29.7	14	2.6	5
30	34.9	14	2.6	5
35	39.8	14	2.6	5
40	44.8	14	2.6	5
45	49.9	14	2.6	5
50	55.2	14	2.6	5
55	60.4	14	2.6	5
60	65.5	16	2.6	5

Start Time:	1025	Initial Leak Check	<.01	LPM@ 15 "Hg	DGMCF: 0.979
Finish Time:	1125	Final Leak Check	<.01	LPM@ 16 "Hg	Sample Volume: 63.3
					Average DGM Temp: 63.2
					Average DGM Δ H: 2.6

Train B

Tube Identification:	OLC038415	Spiked (Yes) No	
Spike Concentration	25 ng		

Measuring Device	MII
Control Module	CUE 20115

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	33.3	4	1.6	5
5	38.7	4	1.6	5
10	44.3	4	1.6	5
15	49.8	4	1.6	5
20	55.4	4	1.6	5
25	60.7	4	1.6	5
30	65.9	4	1.6	5
35	71.4	4	1.6	5
40	76.7	4	1.6	5
45	82.3	4	1.6	5
50	87.9	4	1.6	5
55	93.0	4	1.6	5
60	98.3	4	1.6	5

Start Time:	1025	Initial Leak Check	<.01	LPM@ 15 "Hg	DGMCF: 1.006
Finish Time:	1125	Final Leak Check	<.01	LPM@ 15 "Hg	Sample Volume: 63.0
					Average DGM Temp: 4.0
					Average DGM Δ H: 1.6

Operator:	RDL

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	3

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Train A

Tube Identification:	OL426826	Spiked	Yes / No
Spike Concentration	500 ng		

Measuring Device	MII
Control Module	10/17
Barometer	ENV. CAN.
Barometric Pressure	29.41

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	67.1	5	2.6	3
5	72.3	5	2.6	5
10	77.3	6	2.6	6
15	82.4	6	2.6	6
20	87.5	7	2.6	6
25	92.6	7	2.6	6
30	97.7	9	2.6	6
35	102.8	9	2.6	6
40	107.9	9	2.6	6
45	113.1	9	2.6	6
50	118.2	9	2.6	6
55	123.0	9	2.6	6
60	130.0	9	2.6	6

Start Time:	11:35	Initial Leak Check	Col	LPM@	16 "Hg
Finish Time:	12:35	Final Leak Check	Col	LPM@	16 "Hg

DGMCF:	0.979
Sample Volume:	63.0
Average DGM Temp:	7.6
Average DGM Δ H:	2.6

Train B

Tube Identification:	OL445572	Spiked	Yes / No
Spike Concentration	ng		

Measuring Device	MII
Control Module	Corrosion

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	22.0	3	1.6	5
5	28.0	5	1.6	5
10	34.0	5	1.6	6
15	40.0	5	1.6	6
20	46.0	5	1.6	6
25	52.0	5	1.6	6
30	58.0	5	1.6	6
35	64.0	5	1.6	6
40	70.1	5	1.6	6
45	76.0	5	1.6	6
50	82.0	5	1.6	6
55	88.0	5	1.6	6
60	94.0	5	1.6	6

Start Time:	11:35	Initial Leak Check	Col	LPM@	16 "Hg
Finish Time:	12:35	Final Leak Check	Col	LPM@	16 "Hg

DGMCF:	1.001
Sample Volume:	72.8
Average DGM Temp:	4.8
Average DGM Δ H:	1.6

Operator:	RD CG

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	4

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Train A

Tube Identification:	OL 04/5635	Spiked Yes (No)	
Spike Concentration	ng		

Measuring Device	MII
Control Module	10m
Barometer	ENV. CAN.

Barometric Pressure	29.37

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	54.3	7	2.0	7
5	59.5	8	2.0	5
10	65.0	9	2.0	6
15	70.0	10	2.0	6
20	75.0	10	2.0	6
25	80.3	10	2.0	6
30	85.5	10	2.0	6
35	90.5	10	2.0	6
40	95.4	10	2.0	6
45	100.4	10	2.0	6
50	105.0	10	2.0	6
55	111.5	10	2.0	6
60	117.0	10	2.0	6

Start Time:	12:53	Initial Leak Check	4.01	LPM@ 16 "Hg	DGMCF: 0.979
Finish Time:	13:53	Final Leak Check	4.01	LPM@ 17 "Hg	Sample Volume: 62.7
					Average DGM Temp: 11.9
					Average DGM Δ H: 2.0

Train B

Tube Identification:	OL331317	Spiked (Yes) No	
Spike Concentration	500 ng		

Measuring Device	MII
Control Module	COE20015

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	97.2	4	1.6	2
5	102.9	6	1.6	3.5
10	108.5	6	1.6	5
15	114.1	6	1.6	5
20	119.8	6	1.6	5
25	125.5	6	1.6	5
30	131.2	6	1.6	5
35	136.9	6	1.6	5
40	142.6	6	1.6	5
45	148.3	6	1.6	5
50	154.0	6	1.6	5
55	159.7	6	1.6	5
60	165.0	6	1.6	5

Start Time:	12:53	Initial Leak Check	4.01	LPM@ 16 "Hg	DGMCF: 1.001
Finish Time:	13:53	Final Leak Check	4.01	LPM@ 17 "Hg	Sample Volume: 67.8
					Average DGM Temp: 5.9
					Average DGM Δ H: 1.6

Operator:	

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	5

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Train A

Tube Identification:	OL3555256	Spiked (Yes) No	
Spike Concentration	1020 ng		

Measuring Device	MII
Control Module	K01.17
Barometer	ENV. CAN.
Barometric Pressure	29.30

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	19.7	6	2.6	7
5	24.2	6	2.6	7
10	29.3	6	2.6	9
15	34.2	6	2.6	10
20	39.1	6	2.6	10
25	44.2	6	2.6	10
30	49.3	6	2.6	10
35	54.3	6	2.6	10
40	59.4	6	2.6	10
45	64.4	6	2.6	10
50	69.5	6	2.6	10
55	75.6	6	2.6	10
60	79.4	6	2.6	10

Start Time:	1445	Initial Leak Check	2.01 LPM@	15	"Hg
Finish Time:	1545	Final Leak Check	2.01 LPM@	17	"Hg

DGMCF:	0.979
Sample Volume:	60.2
Average DGM Temp:	19.8
Average DGM Δ H:	2.6

Train B

Tube Identification:	OL4456O3	Spiked Yes (No)	
Spike Concentration	— ng		

Measuring Device	MII
Control Module	COE 2013

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	73.3	4	1.5	7
5	78.0	4	1.5	7
10	83.0	4	1.5	8
15	89.3	4	1.5	7
20	94.1	4	1.5	7
25	100.6	4	1.5	7
30	106.3	4	1.5	7
35	111.9	4	1.5	7
40	117.6	4	1.5	7
45	123.3	4	1.5	7
50	128.9	4	1.5	7
55	134.6	4	1.5	7
60	140.3	4	1.5	7.5

Start Time:	1445	Initial Leak Check	2.01 LPM@	16	"Hg
Finish Time:	1545	Final Leak Check	2.01 LPM@	18	"Hg

DGMCF:	1.001
Sample Volume:	68.0
Average DGM Temp:	4
Average DGM Δ H:	1.5

Operator:	[illegible]

ORTECH Environmental
Mercury Tube Data Sheet

Plant:	Clean Harbors
Plant Location:	Corunna
Test No.:	6

Test location:	Stack Breeching
Date:	January 10, 2018
Project No.:	21830

Measuring Device	MII
Control Module	10117
Barometer	ENV. CAN.

Barometric Pressure 29.29

Train A

Tube Identification:	OL448677	Spiked Yes (No)
Spike Concentration	– ng	

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	80.0	8	2.6	2
5	85.0	9	2.6	5
10	90.1	10	2.6	7
15	94.9	10	2.6	7
20	100.0	10	2.6	7
25	105.1	10	2.6	7
30	110.0	10	2.6	7
35	114.9	10	2.6	7
40	120.0	10	2.6	7
45	125.0	10	2.6	7
50	129.7	10	2.6	7
55	135.0	10	2.6	7
60	139.8	10	2.6	7

Start Time: 1555	Initial Leak Check <.01 LPM@ 15 "Hg	DGMCF: 0.979
Finish Time: 1655	Final Leak Check <.01 LPM@ 16 "Hg	Sample Volume: 59.8
		Average DGM Temp: 9.8
		Average DGM Δ H: 2.6

Train B

Tube Identification:	OL338617	Spiked (Yes) No
Spike Concentration	2600 ng	

Measuring Device	MII
Control Module	COE 20018

Clock Time	Dry Gas Meter L	Average Meter Temperature °C	Meter Pressure Δ H "H_2O	Pump Vacuum "Hg Gauge
0	40.7	5	1.5	2
5	45.8	5	1.5	4
10	51.3	5	1.5	7
15	56.4	5	1.5	9
20	61.6	5	1.5	10
25	66.8	5	1.5	10
30	71.9	5	1.5	10
35	77.0	5	1.5	10
40	82.3	5	1.5	10
45	87.5	5	1.5	10
50	92.7	5	1.5	10
55	98.3	5	1.5	10
60	104.1	5	1.5	10

Start Time: 1555	Initial Leak Check <.01 LPM@ 16 "Hg	DGMCF: 1.001
Finish Time: 1655	Final Leak Check <.01 LPM@ 16 "Hg	Sample Volume: 63.4
Operator: [illegible]		Average DGM Temp: 5
		Average DGM Δ H: 1.5

APPENDIX 3

ORTECH Equipment Calibration Data
(4 pages)

ORTECH Environmental

Dry Gas Meter Calibration Data

Calibration Procedure	03-J004
Meter Number	Vost 2
Date	January 8, 2017
Barometric Pressure	29.32
System Leak Check	401 lpm @ 1"Hg

MII NUMBERS	
DGM	A10117
Gasometer	A01463
Barometer	COE20028

Calibrated By	David Utley
Signature	
Reviewed and Accepted By	

ft^3= cm* 1.332 litres per cm/28.3168 litres per ft^3

$$DGMCF = \frac{Vstd\ ft^3}{Vdgm\ ft^3} \quad \frac{Tdgm\ °F+460}{Tstd\ °F+460} \quad \frac{Pbar\ (in.\ Hg)}{(Pbar\ in.\ Hg+DGMPressure/13.6)}$$

Gasometer Reading cm			Gasometer Volume	Gasometer Temperature	DGM Reading L		DGM Volume	DGM Average Temperature	DGM Pressure	DGM Outlet	DGM Calibration	Time	Flow Rate
Initial	Final	cm	ft^3	°C	Initial	Final	ft^3	°C	in. H_2O	°C	Factor	min.	lpm
81.70	66.10	15.60	0.734	21.0	12.400	33.900	0.759	26.0	2.6	26.0	0.977	20	1.1
66.10	50.80	15.30	0.720	21.0	33.900	54.910	0.742	29.0	2.6	26.0	0.990	20.5	1.0
86.90	67.90	19.00	0.894	21.0	54.910	81.500	0.939	29.0	2.6	26.0	0.971	26.2	1.0

Acceptance Criteria:
Individual values of DGM calibration factor must be within ± 1.5% of the average value.
If not the calibration must be repeated. Also, the DGMCF average value must be 1.00 ± 0.05, otherwise the meter must be repaired and/or adjusted as necessary and recalibrated prior to use.
(Environment Canada Reference Method EPS 1/RM/8, Section 6)

DGMCF AVERAGE	
1 Lpm	0.979

Revision June 5, 2007

ORTECH Environmental

Trendicator Calibration

Calibration Procedure	**03-J005**
Trendicator Type	**Nutech**
MII	**A10117**
Date	**January 8, 2017**
Calibrated By	**David Utley**
Signature	
Reviewed and Accepted By	

Fluke Calibrator Output (COE 20024) (°C)	**Tredicator Display Value**		**Percent Difference**
	Before Adjustment (°C)	**After Adjustment (°C)**	**(%)**
0	0	NA	0.0
10	10		0.0
20	20		0.0
50	50		0.0
75	75		0.0
100	100		0.0
125	126		-0.8
150	151		-0.7
200	200		0.0
300	299		0.3
400	399		0.3
500	500		0.0
600	600		0.0

$$\% \text{ Difference} = \frac{(\text{micromite} - \text{after adjustment reading}) \times 100}{\text{micromite}}$$

Acceptance Criteria:
Trendicator display must read within ± 1.5% of the micromite value at each output. Otherwise, the Trendicator must be repaired and/or adjusted as necessary, and recalibrated prior to use. (MOE Source Testing Code, Version #2, Method 5)

ORTECH Environmental

Dry Gas Meter Calibration Data

Calibration Procedure	03-J004
Meter Number	Vost 5
Date	January 9, 2018
Barometric Pressure	29.74
System Leak Check	<0.01 lpm @ 21"Hg

MII NUMBERS	
DGM	COE 20018
Gasometer	A01463
Barometer	COE 20028

Calibrated By	David Utley
Signature	
Reviewed and Accepted By	

ft^3= cm* 1.332 litres per cm/28.3168 litres per ft^3

$$DGMCF = \frac{Vstd\ ft^3}{Vdgm\ ft^3} \quad \frac{Tdgm\ ^\circ F+460}{Tstd\ ^\circ F+460} \quad \frac{Pbar\ (in.\ Hg)}{(Pbar\ in.\ Hg+DGMPressure/13.6)}$$

Gasometer Reading cm			Gasometer Volume	Gasometer Temperature	DGM Reading L		DGM Volume	DGM Average Temperature	DGM Pressure	DGM Outlet	DGM Calibration	Time	Flow Rate
Initial	Final	cm	ft^3	°C	Initial	Final	ft^3	°C	in. H_2O	°C	Factor	min.	lpm
75.50	58.90	16.60	0.781	21.0	122.22	144.83	0.798	25.0	1.5	25.0	0.988	21	1.1
64.20	46.80	17.40	0.818	21.0	51.56	74.70	0.817	24.0	1.5	24.0	1.008	21	1.1
66.50	48.00	18.50	0.870	21.0	97.50	122.22	0.873	25.0	1.5	25.0	1.007	22	1.1

Acceptance Criteria:
Individual values of DGM calibration factor must be within ± 1.5% of the average value.
If not the calibration must be repeated. Also, the DGMCF average value must be 1.00 ± 0.05, otherwise the meter must be repaired and/or adjusted as necessary and recalibrated prior to use.
(Environment Canada Reference Method EPS 1/RM/8, Section 6)

DGMCF AVERAGE	
1Lpm	1.001

ORTECH Environmental

Trendicator Calibration

Calibration Procedure	**03-J005**
Trendicator Type	**Jenco 765**
MII	**COE 20018**
Date	**January 9, 2018**
Calibrated By	**David Utley**
Signature	
Reviewed and Accepted By	

Fluke Calibrator Output (COE 20024) (°C)	Tredicator Display Value		Percent Difference
	Before Adjustment (°C)	After Adjustment (°C)	(%)
0	0	NA	0.0
10	10		0.0
20	20		0.0
50	50		0.0
75	75		0.0
100	100		0.0
125	125		0.0
150	150		0.0
200	200		0.0
300	300		0.0
400	400		0.0
500	500		0.0
600	601		-0.2

$$\% \text{ Difference} = \frac{(\text{micromite} - \text{after adjustment reading})}{\text{micromite}} \times 100$$

Acceptance Criteria:

Trendicator display must read within ± 1.5% of the micromite value at each output. Otherwise, the Trendicator must be repaired and/or adjusted as necessary, and recalibrated prior to use. (MOE Source Testing Code, Version #2, Method 5)

APPENDIX 4

Mercury Analytical Report
(1 page)

Sorbent Trap Analysis Report

Project Number: 2012889

Turn-around: Standard

Plant: ORTECH Environmental
Contact: David Utley
Phone: (905)-822-4120*235
Email: dutley@ortech.ca

Date: 1/24/2018
Analyst(s): Joe Simon
Method: EPA 7473
Method Uncertainty: ± 10%

Trap ID	AGS Mass (ng)	Section 1 Mass (ng)	Section 2 Mass (ng)	Total Mass (ng)[1]	Section 3 Mass (ng)	Spike Level (ng)	Breakthrough (%)[2]	Spike Recovery (%)[3]	Source	Notes
OL421340		297.2	1.0	**298.2**		100	0.35%		Run 1	
OL445633		164.0	0.0	**164.0**			0.00%		Run 1	
OL445644		148.2	0.3	**148.5**			0.19%		Run 2	
OLC038415		433.0	0.3	**433.3**		250	0.07%		Run 2	
OL426826		567.5	1.3	**568.8**		500	0.23%		Run 3	
OL445572		164.3	0.0	**164.3**			0.00%		Run 3	
OL445635		112.4	0.8	**113.2**			0.75%		Run 4	
OL331377		946.7	0.7	**947.4**		800	0.07%		Run 4	
OL335256		1565	1.9	**1567**		1400	0.12%		Run 5	
OL445603		174.8	0.1	**174.9**			0.06%		Run 5 Dup	CoC is blank
OL445677		145.4	0.9	**146.3**			0.64%		Run 6	
OL336417		2759	0.8	**2760**		2600	0.03%		Run 6	

MDL = 0.46 ng	LOQ = 5 ng

[1] Total Mass = PF+AGS+S1+S2

[2] Breakthrough = S2 / (PF+AGS+S1)

[3] Spike Recovery = S3 / Spike Level

For PS-12B Only

R = Data invalidation qualifier. Refer to notes

OHIO LUMEX

APPENDIX 5

Clean Harbors Process Data
(18 pages)

Test No. 1		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	9:15:00	50.7	12.3	163.9	220.1	3.9	236.0	28.2	21.6	14659	13978	105594	1581.1	1132.8	496.3	204.0	192.9	-3.00	0	-85.5	282.5
10/01/2018	9:16:00	50.6	12.1	163.9	220.1	3.9	233.4	28.2	21.7	14659	14264	106356	1582.6	1133.9	496.1	204.0	191.8	-10.40	0	-95.5	297.9
10/01/2018	9:17:00	51.0	12.1	163.5	220.0	3.9	234.2	27.6	22.9	14914	14011	105700	1582.4	1133.0	496.3	204.0	191.8	-2.80	0	-81.9	306.9
10/01/2018	9:18:00	50.9	11.9	163.7	218.6	3.9	234.4	27.7	22.8	14659	14112	107036	1582.8	1134.5	496.7	204.0	191.8	-8.65	0	-91.6	289.2
10/01/2018	9:19:00	51.1	12.2	164.2	219.4	3.9	233.8	28.0	23.0	15979	13899	103771	1583.4	1134.2	496.8	204.0	191.8	-1.20	0	-81.1	305.7
10/01/2018	9:20:00	50.5	11.9	164.0	218.2	3.9	233.8	27.5	22.4	14396	14124	107057	1584.9	1136.3	496.4	204.0	191.8	-15.20	0	-100.2	298.2
10/01/2018	9:21:00	50.8	12.1	163.0	219.2	3.9	233.3	28.7	22.9	14921	14011	107547	1584.9	1131.5	496.6	204.0	192.9	-7.05	0	-90.2	304.6
10/01/2018	9:22:00	50.5	11.7	163.8	217.8	3.9	233.8	28.1	21.7	15184	14039	107852	1583.5	1131.2	496.9	204.0	192.9	-12.20	0	-98.5	283.3
10/01/2018	9:23:00	51.1	12.1	164.3	219.4	3.9	234.6	27.9	21.8	14921	13978	106636	1582.6	1129.3	496.8	204.5	192.9	-7.65	0	-91.9	293.3
10/01/2018	9:24:00	50.9	12.2	164.1	219.4	3.9	236.6	27.8	23.0	14921	13966	106584	1584.5	1129.8	496.9	204.5	192.9	-8.35	0	-92.3	309.4
10/01/2018	9:25:00	50.6	12.0	164.4	221.2	3.9	234.8	27.8	21.6	14921	13966	105335	1584.4	1129.7	496.7	204.5	192.9	-4.20	0	-84.5	317.3
10/01/2018	9:26:00	50.7	11.9	164.2	218.1	3.9	233.4	27.8	21.7	14652	14073	106657	1584.8	1132.1	496.6	204.5	192.9	-10.00	0	-94.9	308.3
10/01/2018	9:27:00	50.5	12.2	162.9	221.0	3.9	233.9	27.8	22.9	14921	13938	106580	1583.0	1131.6	496.8	204.5	192.9	-5.30	0	-86.1	316.2
10/01/2018	9:28:00	50.8	11.9	163.7	220.2	3.9	235.8	28.1	22.9	15184	14169	108575	1587.0	1132.4	496.8	204.5	192.9	-11.30	0	-96.3	298.9
10/01/2018	9:29:00	50.9	12.2	163.7	219.1	3.9	236.0	28.1	21.7	15191	14023	107156	1585.3	1130.2	496.9	204.5	192.9	-5.55	0	-88.2	305.1
10/01/2018	9:30:00	50.5	12.0	163.7	217.2	3.9	234.1	27.1	22.8	14652	14157	107820	1586.0	1130.3	497.0	204.5	192.9	-10.95	0	-94.5	283.2
10/01/2018	9:31:00	50.7	12.0	163.7	219.1	3.9	234.5	28.5	21.7	14921	13994	106783	1583.6	1126.5	497.0	204.0	192.9	-5.30	0	-87.9	292.1
10/01/2018	9:32:00	50.9	11.9	164.1	218.7	3.9	234.8	28.0	22.0	14659	14084	107466	1583.0	1128.1	496.9	204.0	192.9	-7.05	0	-88.4	311.7
10/01/2018	9:33:00	50.6	12.2	165.1	219.6	4.3	255.9	28.1	23.0	15184	14090	106502	1585.1	1129.5	497.0	204.0	192.9	-1.65	0	-82.3	318.4
10/01/2018	9:34:00	50.6	12.0	165.0	218.0	3.9	234.5	28.2	21.6	15972	13888	107984	1583.0	1130.8	496.9	204.0	192.9	-6.15	0	-89.6	307.8
10/01/2018	9:35:00	50.5	11.9	164.8	219.2	3.9	234.0	28.2	22.2	15177	13944	106903	1583.6	1130.6	497.2	204.0	192.9	-2.55	0	-80.6	314.1
10/01/2018	9:36:00	50.8	12.1	163.2	218.5	3.9	234.2	27.5	22.8	14921	14197	108392	1584.3	1131.2	497.3	204.0	192.9	-12.25	0	-97.8	300.7
10/01/2018	9:37:00	50.6	12.0	163.1	219.2	3.9	234.3	27.0	21.7	14928	13978	106477	1582.4	1129.2	497.2	204.5	192.9	-6.35	0	-89.5	307.6
10/01/2018	9:38:00	51.1	12.0	164.3	219.0	3.9	235.4	28.1	22.3	14659	13961	107427	1584.6	1128.7	496.8	204.5	192.9	-11.20	0	-93.3	283.6
10/01/2018	9:39:00	50.7	11.8	164.0	219.5	3.9	233.6	27.8	22.8	14928	13972	106088	1584.5	1128.6	496.9	204.5	192.9	-9.00	0	-90.9	295.8
10/01/2018	9:40:00	50.6	11.8	162.9	218.7	3.9	235.0	28.8	22.1	15716	13843	106291	1584.6	1129.3	497.4	204.5	192.9	-7.80	0	-89.6	310.7
10/01/2018	9:41:00	50.9	12.2	163.9	220.5	3.9	234.8	28.1	21.7	14928	13916	105539	1584.8	1130.8	497.1	204.5	192.9	-1.15	0	-82.8	316.4
10/01/2018	9:42:00	50.9	12.1	164.8	219.8	3.9	234.4	28.8	21.7	15447	13854	106825	1584.0	1130.7	497.2	204.5	192.9	-5.50	0	-88.0	308.4
10/01/2018	9:43:00	50.5	12.3	164.2	220.6	3.9	234.7	28.7	22.7	15184	14011	106595	1585.1	1132.6	497.0	204.0	192.9	-0.95	0	-80.0	316.8
10/01/2018	9:44:00	50.5	12.1	164.1	220.3	3.9	234.1	28.2	22.4	14659	14051	106983	1585.0	1132.1	497.4	204.0	192.9	-12.00	0	-96.0	302.4
10/01/2018	9:45:00	50.6	11.9	164.0	220.3	3.9	232.7	27.8	22.0	14659	14067	106226	1584.9	1131.0	497.4	204.5	192.9	-5.25	0	-86.9	306.4
10/01/2018	9:46:00	50.8	12.3	164.8	220.5	3.9	233.9	28.6	21.9	14921	13832	106582	1586.4	1130.0	497.5	204.5	192.9	-7.75	0	-90.5	284.4
10/01/2018	9:47:00	50.8	12.3	164.8	219.4	3.9	234.3	27.9	21.7	15191	13854	106345	1584.1	1129.9	497.7	204.5	192.9	-6.55	0	-89.7	298.5
10/01/2018	9:48:00	50.4	12.2	164.5	219.1	3.9	234.3	27.7	23.0	14652	14079	106743	1585.3	1130.4	497.7	204.5	192.9	-6.15	0	-89.3	310.6
10/01/2018	9:49:00	50.1	12.0	165.2	218.6	3.9	233.0	28.4	22.3	15447	13860	105505	1585.1	1131.2	497.9	204.5	192.9	-3.45	0	-85.1	318.4
10/01/2018	9:50:00	50.7	12.0	165.2	218.9	3.9	234.5	27.6	21.8	14659	13888	107346	1585.0	1131.2	497.5	204.5	192.9	-6.30	0	-88.6	309.3
10/01/2018	9:51:00	50.7	12.0	163.7	219.7	3.9	232.9	28.1	21.6	14389	14045	105727	1582.1	1132.0	497.8	204.5	192.9	-0.55	0	-80.0	316.6
10/01/2018	9:52:00	51.0	12.1	165.1	219.9	3.9	234.0	28.9	22.9	14928	14056	107556	1583.5	1131.1	497.9	204.5	192.9	-9.25	0	-93.0	300.5
10/01/2018	9:53:00	50.8	12.0	164.6	218.9	3.9	234.0	28.8	22.7	14914	13905	106344	1582.9	1130.5	497.9	205.0	192.9	-6.00	0	-88.7	308.1
10/01/2018	9:54:00	50.5	12.1	164.9	221.0	3.9	233.3	27.9	22.0	14928	13893	107269	1584.5	1129.8	498.4	205.0	192.9	-6.85	0	-91.5	288.6
10/01/2018	9:55:00	50.6	12.1	164.5	220.0	3.9	233.2	28.6	21.7	14396	14017	105697	1583.6	1130.7	498.2	205.0	192.9	-2.95	0	-85.2	295.3
10/01/2018	9:56:00	50.7	11.9	164.6	221.0	3.9	233.1	28.8	23.0	14928	13972	106727	1586.0	1130.9	498.2	205.0	192.9	-4.05	0	-84.4	312.1
10/01/2018	9:57:00	50.8	11.9	164.3	218.9	3.9	235.3	27.8	22.4	14666	13994	105727	1585.1	1132.4	497.9	205.0	192.9	-4.45	0	-90.8	291.0
10/01/2018	9:58:00	50.4	11.9	165.5	220.1	4.3	259.4	27.2	22.2	14921	14051	105937	1582.9	1130.9	498.0	205.0	192.9	-4.55	0	-85.8	312.6
10/01/2018	9:59:00	50.4	12.0	165.2	219.2	4.1	243.1	28.6	22.9	14921	13966	110164	1583.9	1132.7	498.1	204.5	192.9	-14.25	0	-98.8	271.1
10/01/2018	10:00:00	50.9	12.1	164.6	219.3	3.9	235.1	28.1	21.9	14659	14023	106242	1587.1	1131.6	498.3	204.5	192.9	-8.75	0	-91.5	301.7
10/01/2018	10:01:00	50.9	11.9	164.2	217.6	3.9	234.5	28.2	23.0	14928	13876	109602	1586.8	1130.8	498.6	204.5	192.9	-18.95	0	-105.5	261.7
10/01/2018	10:02:00	50.9	12.1	165.6	219.2	3.9	233.6	28.2	22.0	15191	14011	106813	1585.6	1128.7	498.4	204.5	192.9	-5.90	0	-88.2	284.9
10/01/2018	10:03:00	50.4	12.0	164.1	219.3	3.9	233.0	28.2	22.0	14396	13792	110617	1584.9	1130.9	498.5	204.5	192.9	-19.75	0	-108.7	274.9
10/01/2018	10:04:00	50.6	12.2	165.3	220.9	3.9	233.3	25.7	22.1	14389	13921	104909	1584.9	1130.5	498.4	204.5	192.9	-3.70	0	-83.2	312.7
10/01/2018	10:05:00	51.0	11.9	163.7	218.3	3.9	233.1	28.4	21.7	14921	13989	109574	1585.9	1134.1	498.5	204.5	192.9	-21.50	0	-110.5	266.7
10/01/2018	10:06:00	50.7	12.4	165.0	220.4	3.9	234.2	27.8	22.2	14659	13978	105863	1585.8	1132.8	498.7	204.5	192.9	-3.35	0	-84.5	313.2
10/01/2018	10:07:00	50.5	11.9	164.8	218.8	3.9	234.3	27.9	22.1	14921	13994	109965	1583.3	1134.3	499.0	204.0	192.9	-22.90	0	-112.3	267.8
10/01/2018	10:08:00	50.4	12.0	165.4	219.6	3.9	233.3	29.0	22.9	14396	14096	106203	1584.8	1132.4	498.7	204.5	192.9	-7.70	0	-92.7	304.6
10/01/2018	10:09:00	50.7	11.9	161.3	218.0	4.3	258.8	28.1	22.4	14396	13966	109929	1583.6	1131.8	499.1	204.5	192.9	-22.30	0	-111.8	264.6

Test No. 1		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	10:10:00	50.6	11.9	164.5	219.2	3.9	233.6	27.8	22.7	14396	14079	107097	1584.9	1131.1	498.5	204.5	192.9	-5.35	0	-87.2	288.8
10/01/2018	10:11:00	50.4	11.8	164.9	218.0	3.9	234.8	27.5	22.6	14666	14073	109486	1586.9	1131.9	498.6	204.5	192.9	-22.80	0	-111.3	276.0
10/01/2018	10:12:00	50.9	12.3	164.6	219.8	3.9	233.2	27.7	22.7	14928	13899	105834	1586.9	1132.0	499.1	205.0	192.9	-2.55	0	-82.8	310.6
10/01/2018	10:13:00	51.0	11.9	165.1	217.3	4.0	239.4	28.3	21.9	14396	14107	109489	1586.6	1135.0	498.7	204.5	192.9	-25.75	0	-113.1	274.8
10/01/2018	10:14:00	50.7	11.8	164.6	218.7	3.9	235.1	28.1	22.5	15716	13921	105568	1584.3	1133.6	498.6	204.5	192.9	-2.45	0	-82.5	313.7
10/01/2018	10:15:00	50.4	11.7	165.1	218.5	3.9	232.9	26.9	21.7	15191	14146	107928	1585.8	1135.6	498.7	204.5	192.9	-16.50	0	-102.6	288.3

January 10/2018	Waste Flows							Flows	Air Flows		Temperatures						Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	51.1	12.4	165.6	221.2	4.3	259.4	29.0	23.0	15979	14264	110617	1587.1	1136.3	499.1	205.0	192.9	-0.55	0.0	-80.0	318.4
Min	50.1	11.7	161.3	217.2	3.9	232.7	25.7	21.6	14389	13792	103771	1581.1	1126.5	496.1	204.0	191.8	-25.75	0.0	-113.1	261.7
Average	50.7	12.0	164.3	219.3	3.9	235.5	28.0	22.3	14896	13997	107009	1584.5	1131.4	497.6	204.4	192.8	-8.38	0.0	-91.6	298.6
Variance	0.0	0.0	0.6	0.9	0.0	29.0	0.3	0.3	136179	9398	1960568	1.8	3.5	0.7	0.1	0.1	37.33	0	73.6	234.1

Test No. 2		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	10:25:00	50.8	12.1	165.6	219.2	3.9	234.2	28.8	22.8	14659	14135	107434	1586.4	1136.7	499.4	205.0	192.9	-11.30	0	-96.5	283.9
10/01/2018	10:26:00	50.7	12.2	164.0	219.6	4.3	259.1	26.4	21.7	14659	13927	106748	1585.5	1135.7	499.4	205.0	192.9	-5.25	0	-86.8	293.1
10/01/2018	10:27:00	50.9	12.0	164.6	218.3	3.9	236.2	27.6	22.9	14133	14056	105632	1585.1	1136.5	499.2	205.0	192.9	-5.00	0	-88.7	309.6
10/01/2018	10:28:00	50.4	12.0	164.7	219.7	4.3	256.7	27.9	22.9	14396	14011	105321	1585.1	1136.8	499.5	205.0	192.9	-3.30	0	-83.4	316.9
10/01/2018	10:29:00	50.5	11.9	164.0	218.1	4.2	249.6	27.6	21.9	14659	13949	105872	1587.1	1138.4	499.2	205.0	192.9	-6.15	0	-88.2	305.1
10/01/2018	10:30:00	50.4	12.1	164.7	220.5	3.9	234.1	28.4	22.4	14921	13955	106230	1583.9	1139.9	499.5	205.0	192.9	0.05	0	-79.7	314.1
10/01/2018	10:31:00	50.6	11.7	165.0	217.8	4.3	256.7	26.7	23.0	14666	13933	107323	1588.3	1140.1	499.7	205.0	192.9	-13.80	0	-96.8	300.3
10/01/2018	10:32:00	50.7	11.8	164.2	219.8	3.9	233.9	27.5	22.2	14396	13972	106977	1587.1	1138.1	499.5	205.5	192.9	-6.15	0	-89.7	308.5
10/01/2018	10:33:00	50.6	11.8	164.4	224.9	4.3	257.3	28.1	22.9	15723	14084	107580	1585.0	1137.4	499.9	205.0	192.9	-9.70	0	-93.4	283.0
10/01/2018	10:34:00	50.3	11.8	165.2	226.2	4.3	255.8	28.2	22.7	15184	13978	105872	1584.3	1137.5	499.7	205.0	192.9	-4.80	0	-86.4	291.5
10/01/2018	10:35:00	50.9	12.0	165.0	224.3	3.8	228.8	28.0	22.8	14659	13989	106141	1584.4	1139.2	499.7	204.5	192.9	-6.85	0	-88.1	312.1
10/01/2018	10:36:00	50.6	12.0	165.1	226.4	3.7	224.8	27.7	22.5	15460	13882	104835	1584.3	1140.6	499.7	204.0	192.9	-3.70	0	-81.3	318.1
10/01/2018	10:37:00	50.3	11.8	166.2	225.5	4.3	259.1	27.7	21.7	15454	13826	106787	1587.0	1140.8	499.7	203.5	192.9	-6.55	0	-90.2	310.4
10/01/2018	10:38:00	50.3	12.2	165.3	225.9	4.2	253.9	27.9	21.8	14659	13753	105731	1584.5	1140.8	500.0	203.0	192.9	-4.40	0	-83.2	319.1
10/01/2018	10:39:00	50.7	12.2	166.3	227.1	4.5	268.8	28.1	22.7	14396	14017	107071	1584.1	1141.1	500.1	202.5	191.8	-10.30	0	-93.2	299.1
10/01/2018	10:40:00	51.0	12.0	164.5	227.8	4.2	252.9	28.1	21.7	14659	13865	107010	1584.9	1139.9	499.8	202.5	191.8	-5.80	0	-88.4	306.8
10/01/2018	10:41:00	50.8	12.2	164.6	226.1	5.0	302.2	27.7	22.5	15454	13860	108005	1584.6	1139.1	500.2	202.0	191.8	-8.75	0	-92.6	284.6
10/01/2018	10:42:00	50.7	12.2	165.0	227.7	4.1	244.4	28.0	22.8	14666	13938	106493	1584.6	1139.5	500.1	202.0	191.8	-4.90	0	-86.6	294.8
10/01/2018	10:43:00	50.2	12.1	165.1	227.6	4.3	258.0	28.1	22.1	14921	13893	106894	1584.9	1139.1	500.3	201.5	190.8	-6.20	0	-89.7	311.9
10/01/2018	10:44:00	50.8	12.0	164.6	226.1	4.5	269.0	27.9	22.9	15184	14000	106155	1583.3	1142.1	500.2	201.5	190.8	-1.70	0	-81.8	317.4
10/01/2018	10:45:00	50.9	12.0	166.0	225.7	4.3	258.5	28.3	22.1	14659	13893	106516	1582.9	1141.6	500.0	201.0	190.8	-3.95	0	-86.0	310.3
10/01/2018	10:46:00	50.8	12.0	163.2	224.6	4.1	248.6	27.6	22.7	14928	14045	105692	1582.3	1142.2	500.2	201.0	190.8	-3.55	0	-83.7	321.1
10/01/2018	10:47:00	50.7	12.0	164.6	225.5	4.3	257.5	28.3	22.3	14396	13865	108309	1585.1	1140.1	499.9	200.5	190.8	-7.05	0	-89.9	298.6
10/01/2018	10:48:00	50.6	11.9	164.8	226.0	4.0	240.0	27.8	22.5	14396	14017	105871	1582.9	1139.1	500.0	200.5	190.8	-5.55	0	-88.6	309.4
10/01/2018	10:49:00	50.2	12.1	165.0	225.6	4.3	258.2	28.8	21.6	14666	14000	107763	1584.0	1136.7	500.3	200.0	190.8	-9.00	0	-93.6	286.8
10/01/2018	10:50:00	50.3	11.8	164.4	225.0	4.1	248.4	28.2	22.8	14659	13972	107767	1582.9	1136.5	500.1	199.0	189.8	-4.95	0	-87.2	295.2
10/01/2018	10:51:00	50.7	12.0	164.2	225.5	4.1	245.0	28.6	23.0	14659	13944	107921	1584.5	1135.6	499.5	198.5	189.8	-5.40	0	-89.2	313.1
10/01/2018	10:52:00	50.8	12.0	164.3	225.4	4.0	237.3	28.0	22.5	14921	13989	106595	1582.9	1137.8	499.5	197.5	188.8	-2.00	0	-82.2	316.9
10/01/2018	10:53:00	50.7	11.9	165.4	226.0	4.2	254.6	27.9	21.8	14126	13989	107488	1580.8	1137.3	499.1	197.0	188.8	-4.80	0	-87.4	310.9
10/01/2018	10:54:00	50.3	12.1	164.6	225.5	4.3	259.7	27.3	21.6	14133	13871	106839	1581.8	1138.7	499.2	196.5	187.8	-5.20	0	-86.2	318.1
10/01/2018	10:55:00	50.4	12.1	165.1	225.3	4.4	263.6	28.6	22.9	14928	13978	108688	1584.8	1136.6	498.6	196.0	187.8	-11.20	0	-97.0	303.6
10/01/2018	10:56:00	50.7	11.9	164.5	223.9	4.2	254.9	27.0	22.1	14928	13865	106726	1584.9	1135.9	498.5	195.5	187.8	-13.30	0	-97.7	278.9
10/01/2018	10:57:00	50.9	12.4	165.6	226.7	4.3	257.5	28.6	21.6	14928	13966	107421	1584.5	1135.3	498.0	195.5	187.8	-7.15	0	-91.2	286.3
10/01/2018	10:58:00	50.8	12.1	163.6	225.3	5.0	302.7	27.3	23.0	15191	13989	111219	1583.4	1137.1	498.1	195.0	186.8	-18.25	0	-102.9	273.1
10/01/2018	10:59:00	50.5	12.3	165.5	226.6	4.3	257.4	28.6	22.9	15191	13933	108079	1584.1	1136.6	497.9	195.0	186.8	-4.95	0	-87.7	311.9
10/01/2018	11:00:00	50.5	12.0	164.3	225.9	3.9	234.2	27.8	21.7	14659	14034	109995	1582.5	1137.6	497.3	194.5	186.8	-18.60	0	-106.7	269.2
10/01/2018	11:01:00	50.9	12.2	164.6	226.7	3.9	234.6	27.6	22.8	14666	13910	106954	1582.9	1136.7	497.2	194.0	186.8	-6.25	0	-87.3	312.6
10/01/2018	11:02:00	50.6	12.0	163.5	224.0	3.9	231.9	28.5	21.7	14396	13893	110647	1584.9	1136.4	497.1	193.5	185.8	-24.50	0	-111.3	266.1
10/01/2018	11:03:00	50.3	12.0	165.0	226.1	3.9	235.7	27.8	22.5	14403	13938	108278	1583.4	1133.2	496.5	193.5	185.8	-8.75	0	-93.3	302.3
10/01/2018	11:04:00	50.3	11.8	165.3	224.6	4.5	269.9	28.5	21.7	14666	13910	111222	1582.6	1132.3	496.6	193.0	185.8	-25.00	0	-113.7	263.3
10/01/2018	11:05:00	50.5	11.9	163.6	225.5	4.1	245.6	27.8	22.9	15191	13876	107387	1584.5	1130.7	496.4	193.0	185.8	-11.40	0	-95.3	291.4
10/01/2018	11:06:00	50.9	11.6	163.3	223.7	4.3	260.9	27.3	21.8	14666	13955	110327	1583.8	1131.9	496.1	192.5	184.7	-26.20	0	-115.1	278.6
10/01/2018	11:07:00	50.4	12.0	164.0	225.7	6.5	391.7	28.5	22.2	14396	13798	107502	1584.1	1131.2	495.7	192.5	184.7	-7.45	0	-90.6	317.6
10/01/2018	11:08:00	50.5	12.0	164.3	224.3	4.3	259.4	28.5	21.7	14666	14023	111858	1582.5	1135.3	495.5	192.5	184.7	-27.35	0	-116.9	271.4
10/01/2018	11:09:00	50.6	11.9	164.7	225.5	5.6	336.1	27.8	22.0	14921	13876	106932	1582.5	1133.9	495.2	192.5	184.7	-8.45	0	-90.4	314.2
10/01/2018	11:10:00	50.6	12.1	165.1	224.1	4.4	261.6	28.4	21.9	14666	14079	110618	1583.5	1135.7	495.0	192.5	184.7	-26.65	0	-114.8	267.2
10/01/2018	11:11:00	50.5	12.1	165.5	226.3	4.2	252.2	28.3	22.9	14659	13966	108783	1582.6	1132.9	494.6	192.5	184.7	-10.35	0	-92.5	303.4
10/01/2018	11:12:00	50.9	12.1	164.1	225.4	4.5	268.0	28.4	22.9	14666	14180	110470	1584.8	1132.9	494.5	192.5	184.7	-26.30	0	-115.9	266.1
10/01/2018	11:13:00	50.8	12.1	165.0	227.0	4.5	267.4	27.6	22.9	14928	13983	108855	1584.6	1131.0	494.4	192.5	184.7	-10.50	0	-94.1	291.3
10/01/2018	11:14:00	50.5	11.9	164.9	223.6	4.1	244.8	28.8	22.4	14659	14129	109004	1584.3	1131.9	494.3	192.5	183.6	-15.70	0	-101.0	304.8
10/01/2018	11:15:00	50.6	12.3	164.3	226.7	5.5	328.7	28.2	22.9	15184	14051	108009	1581.5	1131.9	493.6	192.5	183.6	-6.55	0	-88.5	316.3
10/01/2018	11:16:00	50.3	12.1	164.1	225.6	4.3	260.6	28.3	23.0	14935	14112	108065	1584.4	1134.1	493.5	192.0	183.6	-17.00	0	-102.7	303.3
10/01/2018	11:17:00	50.6	12.1	165.2	225.9	7.3	435.9	28.3	22.7	14666	13781	106691	1584.1	1133.5	493.2	192.0	183.6	-7.25	0	-88.6	317.3
10/01/2018	11:18:00	50.5	12.1	165.1	223.2	4.3	256.9	28.0	22.8	14666	14169	108890	1581.1	1135.0	493.2	192.0	183.6	-18.15	0	-106.4	300.2
10/01/2018	11:19:00	50.3	12.2	165.2	225.7	4.4	264.4	28.1	22.4	14396	13955	108293	1582.9	1132.8	493.2	192.0	183.6	-8.80	0	-92.3	305.9

Test No. 2		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	11:20:00	50.4	12.0	164.9	222.8	6.6	397.1	28.4	21.6	14133	14107	108681	1585.1	1133.6	493.0	192.5	183.6	-15.45	0	-101.0	281.6
10/01/2018	11:21:00	50.8	12.2	165.6	227.3	3.6	214.8	28.4	21.7	14928	13994	108056	1585.5	1130.9	493.1	192.5	183.6	-10.50	0	-95.6	295.1
10/01/2018	11:22:00	50.8	12.0	164.5	225.4	5.5	332.6	27.8	21.8	14403	13978	108084	1584.8	1131.8	492.7	192.5	183.6	-11.50	0	-95.0	306.9
10/01/2018	11:23:00	50.4	12.1	165.0	225.9	5.2	309.1	29.1	22.7	14666	13989	107393	1583.5	1132.4	493.1	192.0	183.6	-5.70	0	-87.5	314.3
10/01/2018	11:24:00	50.5	12.2	165.6	225.5	4.5	271.8	28.0	22.0	14666	13978	108162	1582.4	1133.8	492.6	192.5	183.6	-12.10	0	-97.2	307.2
10/01/2018	11:25:00	50.4	12.4	165.6	228.0	4.0	242.3	28.1	22.0	15723	13944	107575	1583.5	1134.4	492.1	192.5	183.6	-4.60	0	-85.1	314.1

January 10/2018	Waste Flows							Flows	Air Flows		Temperatures						Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 2	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	51.0	12.4	166.3	228.0	7.3	435.9	29.1	23.0	15723	14180	111858	1588.3	1142.2	500.3	205.5	192.9	0.05	0.0	-79.7	321.1
Min	50.2	11.6	163.2	217.8	3.6	214.8	26.4	21.6	14126	13753	104835	1580.8	1130.7	492.1	192.0	183.6	-27.35	0.0	-116.9	263.3
Average	50.6	12.0	164.8	224.8	4.4	265.4	28.0	22.4	14757	13966	107701	1584.1	1136.3	497.4	197.6	188.2	-9.87	0.0	-93.3	299.9
Variance	0.0	0.0	0.5	6.2	0.5	1666.3	0.3	0.3	130713	8060	2402030	2.1	10.1	7.4	25.8	13.3	46.08	0	84.7	259.6

Test No. 3		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	11:35:00	50.8	12.1	164.2	225.4	3.9	236.3	28.8	22.7	14928	13775	108081	1586.8	1132.7	491.9	192.5	183.6	-8.95	0	-91.7	309.3
10/01/2018	11:36:00	50.8	11.9	165.4	225.0	4.3	259.7	27.2	21.9	15723	13916	109474	1585.3	1131.7	491.4	192.5	183.6	-13.05	0	-95.9	283.5
10/01/2018	11:37:00	50.8	11.7	164.7	225.4	3.2	194.9	28.1	21.8	14928	14006	106257	1583.9	1131.8	491.3	192.0	183.6	-9.00	0	-90.4	293.3
10/01/2018	11:38:00	50.4	11.8	165.8	225.4	4.3	259.7	29.1	22.0	15191	13949	108956	1583.8	1133.8	490.9	192.0	182.6	-6.80	0	-89.9	313.7
10/01/2018	11:39:00	50.3	12.2	164.2	226.6	5.4	322.7	28.2	21.6	14921	13848	107255	1583.3	1138.2	490.9	192.5	182.6	-2.90	0	-82.9	317.9
10/01/2018	11:40:00	50.7	12.0	164.6	227.0	4.2	250.1	28.8	21.7	14928	13719	108275	1584.1	1141.2	490.8	192.5	182.6	-7.80	0	-91.2	310.1
10/01/2018	11:41:00	51.0	12.1	165.0	226.4	4.0	241.8	29.1	22.8	15191	13848	107125	1585.8	1141.8	490.8	192.5	182.6	-4.30	0	-85.2	319.2
10/01/2018	11:42:00	50.7	11.9	165.6	226.0	4.5	270.1	28.9	21.7	14928	13854	107816	1585.5	1140.9	490.9	192.5	182.6	-12.95	0	-96.6	299.8
10/01/2018	11:43:00	50.3	12.2	165.0	227.1	7.3	436.3	28.7	21.9	14928	13876	108145	1581.3	1140.3	490.4	193.0	183.7	-8.50	0	-91.5	310.4
10/01/2018	11:44:00	50.7	11.9	164.6	225.4	5.8	347.2	28.7	22.1	14403	14000	107559	1584.6	1138.0	490.9	193.0	183.7	-10.90	0	-94.2	286.6
10/01/2018	11:45:00	50.3	11.9	164.9	225.1	6.5	390.7	28.3	23.1	15723	13798	107681	1583.5	1137.0	490.6	193.0	183.7	-7.55	0	-90.3	296.8
10/01/2018	11:46:00	50.2	12.0	165.7	225.0	4.1	245.7	28.0	21.8	14403	14017	108176	1585.0	1137.4	490.8	193.0	183.7	-8.50	0	-88.9	313.3
10/01/2018	11:47:00	50.4	12.0	164.3	225.1	7.3	435.5	28.5	23.0	14666	13893	107976	1584.1	1138.2	490.4	193.0	183.7	-3.30	0	-82.8	317.7
10/01/2018	11:48:00	50.5	12.0	165.1	227.1	7.3	435.2	28.7	22.4	14928	13899	107823	1587.0	1137.2	490.1	192.5	183.7	-6.00	0	-88.8	311.1
10/01/2018	11:49:00	50.9	12.1	162.2	225.8	7.3	436.0	28.6	22.9	15191	13815	106396	1584.9	1138.0	490.2	192.5	182.6	-4.90	0	-84.5	322.6
10/01/2018	11:50:00	50.7	12.0	164.3	225.3	5.1	308.3	28.1	21.7	15993	13927	108740	1586.3	1137.2	490.4	192.5	182.6	-13.85	0	-98.1	302.1
10/01/2018	11:51:00	51.1	12.0	163.8	226.1	7.3	436.1	28.2	22.3	15198	13775	107778	1587.1	1136.1	490.3	192.5	183.7	-8.60	0	-91.3	310.6
10/01/2018	11:52:00	50.6	12.1	164.4	226.8	7.3	436.1	28.0	22.2	14666	14034	109082	1589.9	1134.3	490.0	192.5	183.7	-8.80	0	-91.4	284.7
10/01/2018	11:53:00	50.9	12.0	165.8	226.3	5.7	340.4	28.1	21.7	14666	13905	108312	1585.3	1136.7	490.4	192.0	182.6	-7.25	0	-86.8	295.4
10/01/2018	11:54:00	51.0	12.0	164.5	226.5	4.4	264.1	28.3	21.9	14659	13882	108033	1588.4	1133.2	489.7	192.0	182.6	-7.65	0	-87.5	309.1
10/01/2018	11:55:00	50.9	11.9	164.4	224.4	4.8	287.6	28.8	22.9	14928	13865	106590	1587.4	1132.2	489.6	191.5	182.6	-5.00	0	-91.1	292.3
10/01/2018	11:56:00	50.3	12.0	163.6	225.4	4.0	241.7	28.2	23.0	14666	13927	107286	1588.6	1129.0	489.5	191.5	182.6	-11.00	0	-91.8	311.3
10/01/2018	11:57:00	50.2	11.6	161.8	224.8	4.8	289.1	29.0	23.0	14140	13876	110092	1585.3	1129.8	489.4	191.0	182.6	-18.45	0	-105.5	273.6
10/01/2018	11:58:00	50.4	12.0	164.7	226.3	7.3	436.1	28.3	22.6	14928	13972	107516	1589.0	1127.9	489.4	191.0	182.6	-12.85	0	-95.2	302.6
10/01/2018	11:59:00	50.6	11.7	161.9	225.0	4.8	287.6	28.2	22.9	14396	13978	112238	1589.0	1124.7	489.1	190.5	182.6	-20.70	0	-105.3	260.8
10/01/2018	12:00:00	50.8	12.0	157.9	225.5	4.9	296.7	28.0	23.0	14666	13843	109454	1590.5	1120.4	489.2	189.5	181.6	-14.90	0	-96.6	289.7
10/01/2018	12:01:00	50.4	11.8	153.7	224.3	7.3	435.8	28.4	22.9	14666	14023	111808	1590.3	1120.4	488.4	189.0	180.6	-29.00	0	-113.6	273.8
10/01/2018	12:02:00	50.4	11.8	155.0	225.7	4.6	273.5	29.1	21.7	14928	13933	108129	1590.0	1120.9	488.2	188.0	180.6	-13.65	0	-91.2	314.4
10/01/2018	12:03:00	50.3	12.1	155.6	226.6	4.4	266.2	29.0	23.0	14935	13910	111664	1592.1	1123.1	487.7	187.0	180.6	-33.20	0	-117.8	273.4
10/01/2018	12:04:00	50.8	12.3	159.1	227.6	4.2	254.1	28.0	22.3	14403	13876	108196	1590.3	1121.3	487.3	186.0	179.6	-11.75	0	-91.2	313.8
10/01/2018	12:05:00	50.6	11.9	159.5	224.7	3.6	214.5	28.5	22.0	14666	13978	111766	1588.5	1122.2	486.9	185.5	178.5	-33.85	0	-118.7	270.7
10/01/2018	12:06:00	50.7	12.1	160.2	226.5	5.0	299.5	28.2	22.9	15191	13949	110000	1588.5	1118.7	487.3	185.0	178.5	-21.85	0	-105.0	313.3
10/01/2018	12:07:00	50.4	12.2	159.8	225.9	7.0	420.2	28.7	23.0	14928	14045	111621	1590.0	1116.7	486.7	185.0	178.5	-33.70	0	-120.9	269.8
10/01/2018	12:08:00	50.6	11.9	147.9	227.0	4.0	239.4	28.7	22.9	14403	14017	107911	1587.0	1119.3	486.5	184.5	178.5	-16.75	0	-95.2	287.1
10/01/2018	12:09:00	51.0	11.6	148.3	225.1	4.3	259.1	28.2	22.4	14928	13972	111238	1588.0	1125.8	486.0	184.0	177.4	-32.70	0	-115.9	275.1
10/01/2018	12:10:00	51.0	11.9	153.8	226.4	4.6	276.2	27.7	21.8	15460	13826	107777	1588.0	1130.1	485.5	184.0	177.4	-8.10	0	-86.1	311.9
10/01/2018	12:11:00	50.8	11.8	156.0	224.7	6.1	365.0	28.3	22.9	14928	14146	110732	1586.5	1136.3	485.5	184.0	177.4	-28.05	0	-113.5	268.9
10/01/2018	12:12:00	50.7	12.2	156.0	227.3	4.3	259.5	28.3	22.0	14403	13820	106602	1585.4	1137.6	485.4	184.0	177.4	-8.25	0	-86.9	309.3
10/01/2018	12:13:00	50.7	12.1	155.6	226.0	4.4	262.1	27.9	22.8	14666	14056	108435	1587.4	1141.1	485.3	184.0	177.4	-23.85	0	-109.2	286.4
10/01/2018	12:14:00	50.4	12.2	155.9	227.6	7.3	436.6	28.2	22.6	14672	13905	108216	1587.3	1139.4	484.8	184.5	177.4	-12.70	0	-92.1	298.1
10/01/2018	12:15:00	50.7	12.1	155.1	226.4	4.9	291.8	28.7	22.2	14403	13921	108713	1589.3	1140.0	484.7	185.0	177.4	-23.15	0	-106.0	275.4
10/01/2018	12:16:00	50.4	12.3	156.8	227.2	5.3	319.6	28.1	22.8	14935	13927	106947	1587.8	1140.2	485.0	185.0	177.4	-13.90	0	-94.9	290.0
10/01/2018	12:17:00	51.0	12.0	156.3	225.6	4.4	265.4	28.5	21.8	14403	13916	108490	1588.3	1142.0	484.6	185.5	177.4	-15.90	0	-98.1	308.4
10/01/2018	12:18:00	50.9	12.0	159.4	226.3	4.1	247.5	27.3	22.9	14928	14045	106825	1589.5	1141.4	485.0	185.5	177.4	-9.20	0	-89.9	316.3
10/01/2018	12:19:00	50.6	11.7	157.5	224.4	4.4	264.3	28.1	21.7	14672	13938	107870	1585.0	1142.7	485.1	186.0	177.4	-16.50	0	-99.6	305.5
10/01/2018	12:20:00	50.6	12.0	158.4	226.8	4.7	281.0	28.0	22.3	14928	13820	108082	1585.3	1142.5	485.0	186.5	177.4	-7.25	0	-85.7	314.2
10/01/2018	12:21:00	50.5	11.7	157.4	224.6	4.4	264.9	29.1	22.2	14928	14051	109069	1585.6	1144.9	485.0	187.0	177.4	-19.60	0	-103.7	295.4
10/01/2018	12:22:00	50.5	12.0	157.7	226.7	4.6	277.5	28.1	22.0	14666	13809	107526	1588.9	1142.1	485.1	187.0	178.4	-13.55	0	-96.0	304.0
10/01/2018	12:23:00	50.6	11.8	159.8	224.5	5.3	315.5	28.4	22.4	14403	13949	108285	1588.3	1140.3	485.1	187.5	178.4	-13.90	0	-98.8	276.7
10/01/2018	12:24:00	50.2	11.9	157.5	225.8	6.0	360.2	28.6	23.0	14403	13837	107534	1589.6	1139.2	484.9	187.5	178.4	-12.55	0	-95.1	289.9
10/01/2018	12:25:00	50.5	11.9	159.0	225.0	4.2	252.6	28.5	22.9	14403	13966	107374	1588.9	1139.7	484.7	187.5	178.4	-13.85	0	-98.5	306.0
10/01/2018	12:26:00	50.3	11.9	158.4	226.4	4.2	251.3	28.4	21.7	14666	13826	107598	1588.8	1139.8	484.4	187.5	178.4	-8.55	0	-93.4	313.3
10/01/2018	12:27:00	50.6	11.9	159.3	224.7	4.2	253.0	28.5	23.0	14140	13905	107748	1588.0	1141.4	485.1	187.5	178.4	-13.15	0	-100.1	303.6
10/01/2018	12:28:00	50.8	12.2	160.1	227.3	4.1	242.8	27.9	22.8	14403	13933	106695	1586.4	1141.8	484.5	187.5	178.4	-6.90	0	-93.4	311.2
10/01/2018	12:29:00	50.6	11.9	160.8	225.7	4.3	260.2	28.2	21.6	14672	13826	108978	1588.0	1142.0	484.6	187.5	178.4	-14.05	0	-102.5	292.9
10/01/2018	12:30:00	50.8	12.1	160.9	227.4	4.3	258.5	28.6	23.0	14403	13697	108833	1586.6	1139.6	484.4	187.5	178.4	-8.60	0	-96.5	301.9

Test No. 3		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	12:31:00	50.4	12.0	161.0	226.0	4.4	265.2	28.5	21.6	14672	13933	108623	1590.1	1139.8	484.3	187.5	178.4	-15.40	0	-104.6	281.3
10/01/2018	12:32:00	50.6	12.0	162.7	225.9	4.3	259.5	28.5	21.9	14133	13815	107824	1588.4	1139.3	484.4	187.5	178.4	-7.40	0	-94.7	288.2
10/01/2018	12:33:00	50.4	12.1	160.3	225.4	4.4	266.8	28.0	21.8	14672	13832	107946	1587.4	1141.2	484.6	187.5	178.4	-11.10	0	-98.1	306.3
10/01/2018	12:34:00	50.2	11.9	160.4	225.8	4.3	258.2	28.4	23.0	14928	13815	108172	1588.6	1141.3	484.6	187.5	178.4	-6.95	0	-91.9	314.7
10/01/2018	12:35:00	50.6	11.7	160.5	224.8	4.2	250.4	28.3	21.8	14403	13905	108620	1587.5	1141.9	484.3	187.5	178.4	-9.25	0	-97.4	302.9

January 10/2018	Waste Flows							Flows	Air Flows		Temperatures						Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 3	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	51.1	12.3	165.8	227.6	7.3	436.6	29.1	23.1	15993	14146	112238	1592.1	1144.9	491.9	193.0	183.7	-2.90	0.0	-82.8	322.6
Min	50.2	11.6	147.9	224.3	3.2	194.9	27.2	21.6	14133	13697	106257	1581.3	1116.7	484.3	184.0	177.4	-33.85	0.0	-120.9	260.8
Average	50.6	12.0	160.4	225.9	5.0	300.9	28.4	22.4	14774	13907	108426	1587.2	1135.0	487.5	188.8	180.3	-13.32	0.0	-96.4	298.4
Variance	0.1	0.0	17.9	0.8	1.3	4738.9	0.2	0.3	140289	7798	1961977	4.8	57.2	7.0	10.1	6.2	60.00	0	81.8	244.3

Test No. 4		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	12:53:00	50.8	12.0	163.2	228.0	4.3	258.5	27.6	21.6	14666	13899	107288	1585.4	1144.3	484.1	189.0	179.4	-7.05	0	-98.3	290.8
10/01/2018	12:54:00	50.5	11.8	163.4	226.2	4.3	260.0	29.3	21.7	15986	13860	106703	1585.8	1144.1	484.2	189.0	179.4	-7.05	0	-98.7	284.4
10/01/2018	12:55:00	50.8	12.2	163.6	226.0	4.3	257.9	28.4	22.5	14935	13775	106447	1584.3	1143.4	484.2	189.0	180.4	-9.00	0	-98.5	280.0
10/01/2018	12:56:00	50.6	12.0	161.9	225.4	4.3	258.3	28.0	23.0	14666	13674	109761	1583.8	1144.4	484.6	189.0	180.4	-17.10	0	-111.7	266.4
10/01/2018	12:57:00	50.5	12.0	163.9	226.7	4.2	252.5	29.7	22.6	14140	13624	107021	1586.0	1143.6	484.2	189.5	179.3	-5.00	0	-94.3	301.1
10/01/2018	12:58:00	50.2	12.1	163.8	225.0	3.3	197.7	28.3	22.2	15198	13618	109274	1585.5	1144.4	484.6	189.5	179.3	-17.45	0	-113.0	258.9
10/01/2018	12:59:00	50.6	12.0	163.9	227.3	4.3	255.8	28.3	22.8	14140	13612	106673	1584.3	1144.9	484.4	189.5	179.3	-4.95	0	-93.9	300.4
10/01/2018	13:00:00	50.8	11.8	163.9	224.7	4.3	256.9	28.7	23.1	14928	13663	110156	1586.8	1146.6	484.5	189.5	179.3	-15.90	0	-111.6	253.9
10/01/2018	13:01:00	50.8	11.9	162.0	227.3	4.3	258.2	29.1	23.0	14928	13787	107141	1586.3	1144.5	484.4	189.5	180.4	-5.50	0	-96.8	290.4
10/01/2018	13:02:00	50.6	11.9	161.8	224.9	4.3	259.6	28.2	21.6	14140	13697	110286	1584.4	1144.5	484.5	189.5	180.4	-18.25	0	-114.6	250.6
10/01/2018	13:03:00	50.6	12.2	162.5	227.8	4.2	250.0	26.5	22.0	14666	13685	107689	1585.6	1142.7	484.4	189.5	180.4	-8.65	0	-98.4	281.6
10/01/2018	13:04:00	50.6	12.1	162.5	226.4	4.1	248.1	28.5	21.8	14666	13893	110051	1586.0	1143.7	484.9	189.5	180.4	-25.55	0	-121.9	271.1
10/01/2018	13:05:00	50.7	12.1	162.3	227.4	4.3	257.3	29.1	22.9	14672	13680	106811	1584.9	1144.0	484.8	189.5	180.4	-6.85	0	-97.0	309.9
10/01/2018	13:06:00	50.6	12.0	164.1	225.3	4.3	257.6	28.1	21.7	14396	13876	109896	1587.1	1146.1	484.8	189.0	180.4	-26.80	0	-123.6	265.8
10/01/2018	13:07:00	50.6	12.3	166.1	228.3	4.3	258.8	28.7	23.1	14403	13758	106554	1587.3	1145.6	484.8	189.0	180.4	-4.55	0	-96.8	308.6
10/01/2018	13:08:00	50.3	11.8	162.2	227.4	4.3	257.9	28.7	23.1	14666	13994	110906	1588.9	1146.1	484.4	188.5	179.3	-25.90	0	-122.8	263.6
10/01/2018	13:09:00	50.0	12.0	164.6	226.4	3.9	234.5	28.3	22.4	14410	13663	108688	1589.3	1141.9	484.3	188.5	179.3	-11.70	0	-103.9	300.3
10/01/2018	13:10:00	50.1	11.9	164.1	225.2	4.3	257.5	28.1	21.8	14935	13787	109953	1587.8	1141.8	484.8	188.5	179.3	-26.25	0	-123.2	259.4
10/01/2018	13:11:00	50.7	12.1	166.3	225.7	4.3	257.3	28.7	22.8	15198	13674	106473	1587.8	1139.2	484.7	188.5	179.3	-7.40	0	-98.0	282.4
10/01/2018	13:12:00	50.3	11.8	163.4	225.1	4.3	255.5	29.1	22.8	14666	13989	108232	1588.6	1139.9	484.2	188.5	179.3	-17.50	0	-111.2	301.2
10/01/2018	13:13:00	50.1	11.8	163.1	227.3	4.3	257.4	28.9	22.9	14666	13770	106343	1589.5	1139.0	484.5	188.5	179.3	-7.35	0	-96.3	310.4
10/01/2018	13:14:00	50.3	11.7	164.6	225.4	3.9	235.4	28.0	21.9	14935	13798	107731	1587.9	1142.2	484.4	188.0	179.3	-16.25	0	-111.6	293.8
10/01/2018	13:15:00	50.7	12.1	165.1	226.9	3.9	233.4	28.0	23.0	14133	13860	107013	1588.1	1139.5	484.2	188.0	179.3	-5.20	0	-95.3	308.1
10/01/2018	13:16:00	50.6	11.9	165.9	227.0	3.9	234.6	28.7	22.7	14928	13860	108875	1589.3	1140.7	483.9	187.5	179.3	-19.95	0	-113.1	291.0
10/01/2018	13:17:00	50.3	12.0	162.4	228.8	4.3	258.7	27.8	22.0	14672	13876	108996	1590.6	1136.6	484.2	187.5	179.3	-10.00	0	-101.8	297.5
10/01/2018	13:18:00	50.8	12.0	163.6	226.5	3.9	234.0	28.7	23.0	14935	13921	109783	1588.3	1137.0	484.0	187.0	179.3	-14.25	0	-107.5	273.7
10/01/2018	13:19:00	50.7	12.0	164.0	228.3	4.0	241.7	27.1	22.5	15993	13758	107192	1589.9	1135.2	483.6	187.0	178.3	-7.80	0	-98.9	282.4
10/01/2018	13:20:00	50.4	12.2	166.4	227.0	3.9	235.7	28.3	21.7	14666	13989	107438	1587.3	1135.6	483.5	186.5	178.3	-10.35	0	-102.7	301.3
10/01/2018	13:21:00	50.1	12.0	163.6	228.2	3.9	235.7	28.2	21.8	14666	13758	106255	1586.6	1137.0	483.2	186.5	178.3	-4.90	0	-94.7	309.0
10/01/2018	13:22:00	50.5	11.7	162.8	226.0	4.3	258.7	27.9	21.7	14672	13860	107498	1588.9	1138.5	483.5	186.5	178.3	-11.35	0	-101.4	298.6
10/01/2018	13:23:00	50.7	12.1	164.6	226.6	4.3	258.9	29.4	22.8	14403	13635	106862	1587.4	1138.9	483.2	186.0	178.3	-5.70	0	-94.7	308.5
10/01/2018	13:24:00	50.6	11.8	164.6	225.2	3.9	234.0	28.5	22.0	14672	13848	108905	1587.9	1140.2	482.9	186.0	178.3	-13.70	0	-109.6	290.9
10/01/2018	13:25:00	50.3	12.1	166.4	225.2	3.9	233.9	29.9	23.0	14672	13775	107841	1586.5	1135.8	483.1	186.0	178.3	-8.20	0	-99.0	296.6
10/01/2018	13:26:00	50.4	11.7	164.3	225.6	4.3	260.0	28.4	21.9	14935	13742	108291	1588.9	1134.3	482.6	186.0	178.3	-14.50	0	-105.4	274.5
10/01/2018	13:27:00	50.5	12.4	164.9	228.3	4.3	257.3	28.3	23.0	14935	13736	107861	1586.3	1134.0	482.8	186.0	178.3	-11.80	0	-102.0	287.2
10/01/2018	13:28:00	50.7	12.2	164.6	226.9	4.3	260.0	28.7	21.7	14935	13871	108607	1589.0	1134.4	483.0	186.0	177.3	-8.65	0	-98.0	296.4
10/01/2018	13:29:00	50.5	12.4	163.2	228.9	3.9	234.0	28.4	22.7	14403	13753	106801	1587.4	1135.9	482.4	185.5	177.3	-6.40	0	-95.7	305.9
10/01/2018	13:30:00	50.9	11.9	162.1	226.4	3.9	233.3	29.0	21.7	14935	13674	106936	1585.3	1136.8	482.2	185.5	177.3	-7.75	0	-93.7	308.4
10/01/2018	13:31:00	50.3	12.2	165.4	228.1	3.9	235.1	28.8	22.7	14410	13685	106752	1584.5	1136.3	482.2	185.5	177.3	-5.15	0	-97.2	299.1
10/01/2018	13:32:00	50.1	12.3	162.2	228.3	3.9	234.2	29.3	22.4	14666	13691	107022	1585.4	1136.8	482.3	185.5	177.3	-5.70	0	-92.8	308.9
10/01/2018	13:33:00	50.5	12.1	165.8	227.0	4.3	258.5	28.3	21.7	14403	13758	108066	1586.6	1135.0	482.4	185.0	177.3	-12.40	0	-104.1	295.8
10/01/2018	13:34:00	50.9	11.9	162.4	226.4	3.9	234.7	28.3	22.4	15198	13753	107528	1584.5	1134.0	482.1	185.0	177.3	-8.95	0	-100.9	298.9
10/01/2018	13:35:00	50.7	11.7	165.7	225.9	3.9	235.4	28.1	21.9	14935	13843	108252	1587.0	1132.3	481.8	185.0	177.3	-10.55	0	-102.4	283.7
10/01/2018	13:36:00	50.3	11.9	164.7	226.1	3.9	234.6	28.7	21.7	14928	13781	107351	1585.9	1130.6	481.5	185.0	177.0	-10.30	0	-99.4	304.6
10/01/2018	13:37:00	50.8	12.2	164.0	227.5	3.9	233.8	28.8	22.1	14666	13860	107579	1584.6	1132.8	481.5	184.5	177.0	-6.10	0	-93.7	312.1
10/01/2018	13:38:00	50.4	11.9	165.3	225.9	4.3	258.4	28.7	23.0	14672	13747	107519	1584.8	1132.4	481.4	184.5	177.0	-10.95	0	-92.2	303.4
10/01/2018	13:39:00	50.5	12.2	166.1	228.6	4.2	254.3	29.0	22.9	14403	13949	107131	1583.8	1133.1	481.1	184.5	177.0	-6.15	0	-84.3	312.1
10/01/2018	13:40:00	50.4	12.3	163.0	228.8	3.9	233.3	29.3	21.6	15460	13860	109481	1584.1	1132.3	480.9	184.0	177.0	-16.45	0	-98.6	298.0
10/01/2018	13:41:00	50.2	12.2	165.2	228.4	4.3	259.7	28.7	22.9	15460	13860	107202	1585.5	1131.8	480.9	184.0	177.0	-11.25	0	-92.7	304.0
10/01/2018	13:42:00	50.5	12.2	164.2	226.5	4.3	258.8	28.5	22.1	14935	13961	109038	1585.8	1131.3	480.8	184.0	177.0	-15.15	0	-97.7	283.2
10/01/2018	13:43:00	50.8	12.1	164.0	228.0	4.3	257.5	28.5	22.4	15198	13646	107059	1588.0	1131.4	480.8	184.0	175.9	-10.90	0	-92.6	292.4
10/01/2018	13:44:00	50.8	12.2	161.7	228.3	3.9	235.6	29.3	21.8	15198	13860	108693	1586.5	1131.1	480.8	184.0	175.9	-9.55	0	-90.4	311.2
10/01/2018	13:45:00	50.3	12.1	164.3	225.7	3.9	231.4	28.5	21.7	14403	13758	107463	1586.3	1133.5	480.5	183.5	175.9	-7.60	0	-88.6	319.8
10/01/2018	13:46:00	50.6	11.9	164.1	226.3	4.3	258.5	28.9	22.3	14935	13854	108552	1586.8	1133.3	480.2	183.5	175.9	-9.00	0	-89.5	305.0
10/01/2018	13:47:00	50.6	12.0	163.7	226.1	4.3	257.6	29.1	22.9	14403	13854	106550	1582.9	1134.4	479.8	183.5	175.9	-5.90	0	-84.7	315.8

Test No. 4		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	13:48:00	50.7	12.1	162.5	226.4	3.9	234.7	28.2	21.9	14403	13966	108781	1584.8	1133.1	479.7	183.5	175.9	-17.60	0	-102.2	300.7
10/01/2018	13:49:00	51.0	11.9	162.0	225.9	4.3	257.7	28.3	21.8	14410	13837	107360	1584.1	1133.1	479.9	183.5	175.9	-10.70	0	-92.7	305.1
10/01/2018	13:50:00	50.9	12.0	161.0	227.3	3.9	233.0	28.3	22.1	14666	13860	108003	1583.9	1130.9	479.4	183.5	175.9	-15.35	0	-98.2	284.5
10/01/2018	13:51:00	50.7	12.1	160.5	227.2	4.3	258.5	28.3	22.0	14935	13837	108649	1585.0	1131.3	479.6	183.5	175.9	-16.65	0	-100.2	272.9
10/01/2018	13:52:00	50.6	12.3	163.0	227.8	3.9	236.1	28.3	22.9	14410	13747	107857	1586.1	1131.8	479.2	183.0	175.9	-11.80	0	-94.2	310.7
10/01/2018	13:53:00	50.4	11.9	160.6	227.7	4.3	258.2	28.7	22.7	14935	13624	108912	1583.3	1134.1	478.9	183.0	175.9	-20.70	0	-106.8	272.2

January 10/2018	Waste Flows							Flows	Air Flows			Temperatures					Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 4	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	51.0	12.4	166.4	228.9	4.3	260.0	29.9	23.1	15993	13994	110906	1590.6	1146.6	484.9	189.5	180.4	-4.55	0.0	-84.3	319.8
Min	50.0	11.7	160.5	224.7	3.3	197.7	26.5	21.6	14133	13612	106255	1582.9	1130.6	478.9	183.0	175.9	-26.80	0.0	-123.6	250.6
Average	50.5	12.0	163.7	226.8	4.1	247.5	28.5	22.3	14764	13792	107968	1586.4	1137.8	482.8	186.5	178.2	-11.60	0.0	-100.7	292.6
Variance	0.1	0.0	2.1	1.3	0.0	171.0	0.3	0.3	146914	10566	1365689	3.4	25.0	3.2	4.9	2.3	33.53	0	81.3	281.5

Test No. 5		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	14:45:00	50.5	12.1	159.9	226.1	3.9	234.4	29.5	22.9	14666	13854	106565	1577.5	1146.2	480.4	191.5	180.2	-10.75	0	-98.6	281.3
10/01/2018	14:46:00	50.6	11.9	162.1	225.5	4.3	258.1	29.6	22.8	14666	13646	106971	1578.6	1147.9	480.8	192.0	180.2	-6.00	0	-92.3	290.4
10/01/2018	14:47:00	50.8	12.2	163.6	226.4	4.3	260.0	29.4	22.8	14147	13612	106828	1578.5	1151.1	480.5	192.5	180.2	-3.60	0	-89.1	308.9
10/01/2018	14:48:00	50.4	12.1	165.3	225.0	3.9	234.3	28.8	22.3	14403	13641	105916	1579.8	1155.6	481.1	193.0	181.3	-2.80	0	-89.1	313.9
10/01/2018	14:49:00	50.5	12.0	160.8	227.2	4.3	258.8	28.6	22.8	14928	13792	105698	1577.4	1155.9	481.2	194.0	181.3	-4.95	0	-90.6	305.3
10/01/2018	14:50:00	50.5	11.7	162.6	225.3	4.3	258.4	29.4	22.7	14403	13680	105548	1579.9	1159.5	481.3	194.5	181.3	-6.15	0	-92.1	275.8
10/01/2018	14:51:00	50.3	12.2	163.3	226.4	4.3	258.2	28.2	22.2	15993	13832	107269	1579.1	1161.6	482.2	195.0	182.5	-8.45	0	-97.5	294.9
10/01/2018	14:52:00	50.2	12.1	159.2	226.8	4.2	251.7	29.9	22.0	14140	13781	105137	1580.1	1165.6	482.6	196.0	183.6	-12.25	0	-104.3	259.3
10/01/2018	14:53:00	50.6	12.5	164.5	228.2	4.3	257.2	29.0	22.9	14672	13708	106666	1578.3	1167.2	482.6	197.0	183.6	-5.05	0	-93.2	278.4
10/01/2018	14:54:00	50.4	12.0	160.0	226.3	3.9	234.8	29.0	21.7	14935	13635	109202	1580.1	1169.6	483.2	198.0	183.6	-15.20	0	-106.4	262.6
10/01/2018	14:55:00	50.3	12.2	161.9	226.9	3.9	234.2	29.0	22.9	14403	13618	106235	1580.0	1170.8	483.8	198.5	183.6	-2.75	0	-87.4	303.3
10/01/2018	14:56:00	50.2	12.0	159.9	226.8	3.9	233.0	28.6	22.0	14928	13523	109372	1583.4	1172.7	483.8	198.5	184.7	-16.30	0	-107.8	258.4
10/01/2018	14:57:00	50.6	12.2	164.3	226.9	4.3	258.7	28.7	21.6	14403	13770	104920	1581.9	1173.1	484.4	199.0	184.7	-0.80	0	-86.7	302.3
10/01/2018	14:58:00	50.4	11.7	162.5	225.0	4.3	258.2	28.8	23.0	14935	13787	108668	1585.6	1174.2	485.1	199.5	185.7	-14.95	0	-108.4	254.8
10/01/2018	14:59:00	50.6	11.8	165.7	226.2	3.9	233.3	28.8	22.8	15198	13702	105970	1581.6	1172.9	485.5	200.0	185.7	-3.45	0	-91.9	294.3
10/01/2018	15:00:00	50.4	12.0	156.9	225.0	4.3	258.5	29.2	22.8	14410	13674	110186	1582.6	1172.8	486.0	200.5	186.7	-18.80	0	-112.5	257.8
10/01/2018	15:01:00	50.6	12.0	163.1	226.5	4.3	259.3	29.4	22.3	14666	13657	107346	1581.9	1172.6	486.2	201.0	186.7	-6.00	0	-95.6	286.6
10/01/2018	15:02:00	50.6	11.8	160.0	225.8	4.3	258.4	29.1	22.3	14140	13826	109861	1581.3	1173.0	486.6	201.5	186.7	-18.25	0	-113.0	266.0
10/01/2018	15:03:00	50.7	12.1	163.5	227.3	4.3	258.5	30.0	22.9	14410	13567	107100	1580.5	1172.3	487.0	202.0	186.7	-2.95	0	-90.1	307.9
10/01/2018	15:04:00	50.7	12.0	155.5	225.6	4.3	259.2	29.6	21.8	15205	13770	110063	1583.4	1175.4	487.2	202.0	187.7	-26.25	0	-119.4	270.5
10/01/2018	15:05:00	50.4	12.3	157.5	227.1	4.3	258.3	29.4	21.7	14935	13657	106668	1582.4	1175.6	487.9	202.5	187.7	-5.00	0	-91.2	312.1
10/01/2018	15:06:00	50.6	12.2	154.0	226.8	4.3	257.6	29.0	23.0	14403	13770	110253	1583.6	1179.9	487.8	202.5	187.7	-23.10	0	-118.0	279.5
10/01/2018	15:07:00	50.5	12.1	154.7	227.6	4.3	259.3	29.5	22.9	15198	13753	106958	1582.8	1178.6	488.5	202.5	188.7	-9.65	0	-96.8	304.1
10/01/2018	15:08:00	48.0	12.2	151.1	226.3	4.3	258.6	29.5	21.7	14935	13916	108758	1578.9	1179.6	488.7	202.5	188.7	-26.80	0	-119.7	281.6
10/01/2018	15:09:00	46.3	12.0	153.1	226.8	3.9	234.2	29.4	21.9	14410	13714	106431	1578.0	1171.6	489.0	202.0	188.7	-14.70	0	-99.0	293.6
10/01/2018	15:10:00	46.3	11.7	152.6	225.1	4.3	258.6	28.8	21.8	14666	13871	107513	1574.0	1161.0	489.3	200.5	188.7	-18.00	0	-105.2	307.6
10/01/2018	15:11:00	45.9	12.0	161.3	226.9	3.9	233.4	29.9	21.7	14403	13753	107130	1569.5	1151.8	489.3	198.5	187.6	-8.10	0	-92.9	315.8
10/01/2018	15:12:00	46.0	11.9	156.2	224.3	3.9	235.7	29.0	21.6	14928	13848	107250	1567.6	1145.2	489.0	197.0	186.6	-23.40	0	-111.5	307.7
10/01/2018	15:13:00	45.4	12.3	159.1	226.6	3.9	235.8	28.7	21.9	14672	13641	106952	1565.8	1142.1	488.9	195.5	186.6	-9.25	0	-93.8	312.1
10/01/2018	15:14:00	45.8	11.8	156.8	224.6	3.9	235.1	28.7	21.6	14672	13994	108220	1561.6	1139.7	488.6	194.0	185.6	-23.55	0	-114.8	300.2
10/01/2018	15:15:00	46.2	12.0	161.0	227.9	3.9	234.4	28.8	23.0	14666	13641	109193	1558.9	1135.7	488.2	193.0	184.5	-19.20	0	-106.6	309.8
10/01/2018	15:16:00	46.0	12.1	159.9	226.3	3.9	233.0	28.7	22.7	15198	13775	108786	1553.9	1133.3	487.8	192.0	184.5	-23.10	0	-112.0	284.7
10/01/2018	15:17:00	45.8	12.2	159.4	227.1	3.9	235.7	29.6	22.7	14679	13916	108460	1552.6	1129.3	487.2	191.0	183.4	-16.95	0	-102.9	292.7
10/01/2018	15:18:00	46.1	12.2	160.0	226.4	3.9	233.9	29.0	22.8	14942	13809	108492	1552.1	1128.0	486.8	190.0	182.3	-18.60	0	-106.5	314.1
10/01/2018	15:19:00	47.8	12.3	158.5	227.3	3.9	234.6	28.9	21.7	14672	13803	107606	1552.3	1128.5	486.2	189.0	182.3	-11.75	0	-99.9	320.0
10/01/2018	15:20:00	47.7	12.1	161.2	226.8	4.3	256.2	28.8	22.0	14672	14017	108270	1553.1	1133.0	486.2	189.0	181.3	-18.15	0	-109.6	312.6
10/01/2018	15:21:00	48.0	12.3	161.6	227.3	3.9	234.5	28.7	22.9	15723	13584	106491	1558.9	1135.3	486.4	189.5	181.3	-11.95	0	-99.3	320.9
10/01/2018	15:22:00	48.2	12.1	161.5	224.4	3.9	235.1	28.4	23.0	15198	13843	109693	1557.6	1137.8	486.3	190.0	181.3	-21.40	0	-111.8	300.9
10/01/2018	15:23:00	47.6	12.0	160.2	226.4	4.3	258.1	30.0	22.3	14666	13719	107852	1561.1	1137.2	485.6	190.5	181.3	-17.25	0	-107.6	310.6
10/01/2018	15:24:00	47.9	12.0	162.7	225.3	3.9	234.3	28.9	22.9	14679	13843	109899	1558.5	1138.7	485.7	190.5	181.3	-18.70	0	-112.1	286.1
10/01/2018	15:25:00	47.4	11.8	162.6	226.2	4.3	258.6	30.7	22.4	14403	13702	108378	1560.4	1139.5	485.9	191.0	181.3	-14.20	0	-105.6	297.0
10/01/2018	15:26:00	48.0	12.0	155.2	225.5	4.3	258.3	29.1	22.9	14666	13719	108017	1559.8	1139.7	485.8	191.5	181.3	-11.25	0	-102.9	307.9
10/01/2018	15:27:00	47.9	12.4	157.4	228.1	4.3	259.8	29.3	22.6	14403	13708	106101	1559.4	1143.6	485.5	191.5	181.3	-9.40	0	-97.8	312.6
10/01/2018	15:28:00	48.1	12.6	157.9	227.4	4.3	260.0	29.5	22.7	14928	13725	106910	1561.0	1146.2	486.0	191.5	181.3	-10.25	0	-97.1	301.3
10/01/2018	15:29:00	48.3	12.2	160.6	228.9	3.9	234.6	29.5	22.8	14666	13714	105818	1560.6	1146.7	485.5	191.5	181.3	-7.25	0	-94.1	312.7
10/01/2018	15:30:00	47.6	12.2	154.5	229.3	3.9	233.8	28.2	22.3	14403	13944	106654	1561.4	1146.8	485.7	191.5	181.3	-13.10	0	-105.4	291.9
10/01/2018	15:31:00	48.3	12.1	164.8	228.7	4.3	258.3	28.4	21.8	15730	13837	107757	1559.5	1145.4	485.7	191.5	182.4	-9.70	0	-99.8	303.4
10/01/2018	15:32:00	48.2	12.1	156.3	227.5	3.9	235.1	28.8	22.3	15198	13854	108393	1560.9	1143.3	485.8	192.0	182.4	-18.45	0	-110.1	285.0
10/01/2018	15:33:00	47.6	11.9	163.8	226.3	4.3	258.3	29.0	22.9	15198	13815	107258	1560.5	1142.9	486.2	192.0	182.4	-11.30	0	-102.0	292.6
10/01/2018	15:34:00	47.8	12.0	160.9	226.4	4.3	259.1	29.2	22.3	14140	13815	108280	1559.1	1142.5	486.3	192.0	182.4	-11.70	0	-100.6	305.5
10/01/2018	15:35:00	48.3	12.1	161.7	226.5	4.3	260.4	28.6	22.1	14928	13523	106390	1561.6	1142.2	486.5	192.5	182.4	-5.90	0	-93.6	310.3
10/01/2018	15:36:00	47.4	12.0	162.3	226.2	3.9	233.6	28.7	21.7	14666	13792	107941	1560.1	1143.0	486.3	192.5	182.4	-11.70	0	-102.2	305.7
10/01/2018	15:37:00	48.3	12.2	165.5	227.3	3.9	234.2	28.9	22.6	14410	13551	106681	1560.1	1143.6	486.7	193.0	182.4	-5.70	0	-93.4	311.4
10/01/2018	15:38:00	48.5	11.9	166.0	226.8	3.9	234.7	29.0	23.0	14403	13736	107804	1558.8	1143.0	486.2	193.0	182.4	-15.30	0	-107.1	299.7
10/01/2018	15:39:00	47.6	12.0	163.7	226.8	3.9	233.6	28.6	23.0	14679	13787	106617	1559.0	1142.4	486.4	193.0	183.4	-11.00	0	-100.7	306.0
10/01/2018	15:40:00	47.9	12.1	166.3	226.8	3.9	234.0	30.0	22.5	14928	13787	107476	1560.3	1140.6	486.9	193.5	183.4	-13.85	0	-108.0	285.1

Test No. 5		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	15:41:00	48.2	11.9	165.1	226.7	3.9	235.7	28.3	23.0	14140	13708	106987	1560.1	1137.7	486.9	193.5	183.4	-6.60	0	-87.6	291.0
10/01/2018	15:42:00	48.2	12.2	151.3	227.8	4.3	258.2	29.0	22.2	14140	13764	106742	1559.9	1138.4	487.2	193.5	183.4	-12.95	0	-94.4	309.6
10/01/2018	15:43:00	47.9	12.1	144.2	227.3	4.3	259.1	29.2	23.0	14942	13736	106502	1559.6	1143.5	486.7	193.0	183.4	-10.85	0	-89.4	317.9
10/01/2018	15:44:00	47.8	12.2	163.5	228.3	4.3	258.5	28.9	21.7	14672	13657	108812	1557.5	1144.9	486.9	192.0	183.4	-7.85	0	-86.5	304.1
10/01/2018	15:45:00	48.1	12.1	151.9	227.8	4.3	257.3	29.1	21.9	14140	13629	106111	1561.1	1145.0	486.9	191.0	182.3	-9.45	0	-89.0	317.6

January 10/2018	Waste Flows							Flows	Air Flows	Temperatures							Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 5	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	50.8	12.6	166.3	229.3	4.3	260.4	30.7	23.0	15993	14017	110253	1585.6	1179.9	489.3	202.5	188.7	-0.80	0.0	-86.5	320.9
Min	45.4	11.7	144.2	224.3	3.9	233.0	28.2	21.6	14140	13523	104920	1552.1	1128.0	480.4	189.0	180.2	-26.80	0.0	-119.7	254.8
Average	48.6	12.1	159.9	226.6	4.1	247.3	29.1	22.4	14717	13745	107509	1568.4	1152.0	485.9	194.8	183.7	-12.33	0.0	-100.7	296.8
Variance	2.8	0.0	19.5	1.1	0.0	146.3	0.2	0.2	159595	11619	1722050	118.8	238.3	5.2	17.6	6.2	41.01	0	80.8	293.9

Test No. 6		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	15:55:00	48.4	12.0	162.1	225.5	4.3	257.4	29.7	21.8	14935	13747	111468	1556.6	1139.5	486.7	192.0	182.4	-25.45	0	-112.8	261.1
10/01/2018	15:56:00	47.6	12.2	163.6	228.2	4.3	258.0	29.5	22.1	14140	13747	106818	1557.9	1138.5	487.1	192.5	182.4	-13.55	0	-96.3	288.1
10/01/2018	15:57:00	47.7	12.2	162.3	226.5	4.3	257.5	29.0	21.7	14666	13876	110596	1555.4	1138.8	487.0	192.5	182.4	-24.75	0	-112.2	272.1
10/01/2018	15:58:00	47.6	12.2	163.4	228.0	4.3	259.2	29.3	22.6	14403	13652	106603	1556.0	1138.3	486.6	192.5	182.4	-9.80	0	-91.1	312.1
10/01/2018	15:59:00	47.7	11.9	161.6	227.2	3.9	234.9	29.1	21.8	15198	13798	109319	1558.9	1140.7	486.9	192.5	182.4	-29.25	0	-117.0	271.0
10/01/2018	16:00:00	47.6	12.0	162.2	226.8	3.9	233.1	28.9	22.0	14666	13770	106239	1557.4	1140.9	487.0	193.0	182.4	-7.80	0	-88.8	310.8
10/01/2018	16:01:00	48.2	11.9	162.7	225.7	3.9	235.1	28.8	22.0	14935	13888	109516	1557.6	1142.1	487.2	193.0	182.4	-27.60	0	-113.3	263.8
10/01/2018	16:02:00	48.0	11.8	163.6	226.1	3.9	234.5	29.2	23.0	14666	13781	107851	1557.8	1139.5	487.2	193.0	182.4	-14.10	0	-97.3	303.0
10/01/2018	16:03:00	47.9	11.6	164.2	224.9	3.9	234.9	29.4	22.9	14659	13770	110966	1558.0	1139.2	487.1	193.0	183.4	-26.65	0	-113.7	260.7
10/01/2018	16:04:00	47.6	12.3	163.4	226.2	3.9	233.6	28.5	22.7	15198	13646	107464	1557.1	1137.6	487.1	193.5	183.4	-13.35	0	-95.0	288.1
10/01/2018	16:05:00	47.9	11.7	164.6	224.8	3.9	233.2	29.0	22.5	14672	13848	109793	1556.4	1137.7	487.4	193.5	183.4	-27.45	0	-110.8	288.1
10/01/2018	16:06:00	48.1	12.1	163.7	228.0	3.9	235.9	29.7	22.9	14666	13590	107825	1557.1	1137.4	487.1	193.5	183.4	-7.60	0	-87.6	307.5
10/01/2018	16:07:00	47.9	12.1	163.7	225.9	4.3	258.9	28.8	22.5	15191	13742	109980	1556.5	1141.2	487.4	193.5	183.4	-25.20	0	-109.4	281.3
10/01/2018	16:08:00	48.4	12.2	164.6	228.9	4.3	258.7	28.8	22.0	14935	13775	106853	1555.5	1140.6	487.3	193.5	183.4	-8.05	0	-88.1	308.2
10/01/2018	16:09:00	47.9	12.0	163.5	226.8	4.2	252.5	29.3	21.7	14403	13848	108572	1555.6	1141.7	487.3	193.5	183.4	-23.35	0	-107.8	294.6
10/01/2018	16:10:00	47.7	12.1	163.6	228.7	4.3	257.6	28.9	22.3	14666	13747	107663	1554.6	1141.2	487.5	194.0	183.4	-11.30	0	-93.9	302.7
10/01/2018	16:11:00	47.6	12.1	164.3	226.2	4.3	257.8	29.4	22.9	14935	13972	108744	1556.1	1140.7	487.7	194.0	183.4	-18.55	0	-101.0	278.3
10/01/2018	16:12:00	47.7	12.1	163.6	226.1	4.3	258.0	28.8	23.0	14666	13607	106551	1555.8	1139.6	487.9	194.5	183.4	-9.75	0	-90.5	288.8
10/01/2018	16:13:00	47.6	11.6	163.2	224.1	4.3	259.0	29.2	23.0	14403	13888	106280	1555.5	1140.5	488.4	194.5	183.4	-11.00	0	-92.9	305.5
10/01/2018	16:14:00	47.6	12.0	163.0	226.2	4.3	259.6	28.7	22.8	14431	13680	106951	1556.8	1140.8	488.1	195.0	183.4	-7.80	0	-86.4	313.1
10/01/2018	16:15:00	47.7	11.7	163.8	224.8	4.3	259.6	28.8	23.0	15986	13787	107221	1556.4	1142.7	488.7	194.5	183.4	-12.30	0	-94.0	300.4
10/01/2018	16:16:00	48.2	12.3	164.3	227.6	4.3	259.0	29.0	21.7	14403	13685	105685	1559.5	1142.2	488.2	195.0	184.4	-5.10	0	-84.8	309.6
10/01/2018	16:17:00	47.5	11.9	163.9	225.0	4.3	258.9	29.1	22.9	15198	13860	108248	1557.4	1144.3	488.2	195.0	184.4	-15.85	0	-99.5	293.1
10/01/2018	16:18:00	47.6	12.2	164.7	228.5	3.9	236.3	29.6	23.0	15191	13607	106627	1558.0	1142.1	488.6	195.0	184.4	-9.85	0	-92.1	301.5
10/01/2018	16:19:00	47.3	12.1	163.7	226.1	4.3	259.3	30.1	23.0	15460	13714	107359	1559.5	1142.0	488.9	195.0	184.4	-14.20	0	-97.2	277.3
10/01/2018	16:20:00	48.2	12.2	164.1	227.8	4.3	259.3	28.7	22.1	14666	13601	106578	1557.5	1141.3	488.7	195.0	184.4	-8.65	0	-88.8	287.9
10/01/2018	16:21:00	47.8	12.1	164.0	227.7	3.9	235.2	29.1	21.7	14140	13764	107186	1558.4	1142.7	488.8	195.0	184.4	-9.00	0	-90.7	307.6
10/01/2018	16:22:00	47.4	12.2	164.5	227.9	4.1	246.0	29.2	23.0	16249	13528	106104	1558.4	1143.8	488.9	195.0	184.4	-4.40	0	-83.3	310.4
10/01/2018	16:23:00	47.8	12.1	163.6	226.6	4.2	249.2	28.9	21.7	14140	13646	107131	1558.9	1146.3	488.8	195.5	184.4	-8.55	0	-90.3	302.2
10/01/2018	16:24:00	48.0	12.1	163.5	226.3	3.6	218.5	28.8	22.1	14666	13680	106914	1559.8	1145.1	489.1	195.5	184.4	-4.40	0	-82.7	311.1
10/01/2018	16:25:00	48.2	11.9	163.5	226.0	4.3	257.9	29.1	22.4	15198	13927	107375	1557.6	1146.3	489.6	195.5	184.4	-13.15	0	-97.2	294.2
10/01/2018	16:26:00	48.5	12.1	164.4	226.8	4.3	256.1	29.4	23.0	14672	13657	106282	1555.9	1145.1	489.6	196.0	184.4	-7.80	0	-89.7	301.3
10/01/2018	16:27:00	47.3	11.6	165.1	226.4	4.4	261.4	29.4	22.9	15730	13629	107919	1559.3	1144.0	489.6	196.0	185.4	-12.55	0	-93.9	278.7
10/01/2018	16:28:00	48.2	12.3	164.8	227.3	4.3	258.6	29.8	22.3	14396	13775	105356	1559.9	1143.5	489.8	196.0	185.4	-10.05	0	-90.7	289.5
10/01/2018	16:29:00	48.0	12.0	165.3	224.7	4.3	258.3	28.7	22.0	15191	13624	106825	1559.5	1143.9	489.8	196.0	185.4	-8.90	0	-90.8	306.4
10/01/2018	16:30:00	47.9	12.2	164.8	228.2	4.3	258.4	30.7	21.8	14140	13635	106086	1558.1	1145.4	489.8	196.0	185.4	-5.50	0	-84.6	311.0
10/01/2018	16:31:00	47.6	12.3	165.1	227.0	4.3	258.3	29.0	22.9	15198	13747	107338	1559.5	1145.9	489.8	196.0	185.4	-6.90	0	-88.6	301.4
10/01/2018	16:32:00	47.5	12.1	165.0	227.9	4.2	252.5	28.9	21.6	15723	13618	105798	1559.1	1146.5	489.8	196.0	185.4	-2.90	0	-82.6	311.4
10/01/2018	16:33:00	47.6	12.0	165.4	226.3	4.2	253.8	29.4	21.9	15205	13775	108293	1560.4	1146.6	490.1	196.0	185.4	-10.65	0	-94.2	292.4
10/01/2018	16:34:00	48.3	12.3	164.8	228.4	4.3	259.7	29.5	22.7	14666	13674	106307	1559.6	1145.3	490.2	196.0	185.4	-7.15	0	-89.0	301.0
10/01/2018	16:35:00	47.5	12.1	164.9	228.0	4.3	258.2	29.4	23.1	14396	13528	106349	1556.3	1144.2	490.4	196.0	185.4	-13.55	0	-96.1	281.1
10/01/2018	16:36:00	47.4	11.9	164.5	226.5	3.8	228.8	29.4	23.0	14403	13669	105539	1556.8	1144.4	490.6	196.0	185.4	-8.55	0	-89.2	290.0
10/01/2018	16:37:00	48.1	11.9	164.9	225.7	4.0	241.1	29.4	22.7	14140	13579	105959	1556.9	1144.3	490.2	196.0	185.4	-7.90	0	-86.6	300.0
10/01/2018	16:38:00	48.0	12.1	165.6	226.7	4.2	254.7	29.4	22.1	14935	13697	106054	1559.4	1145.2	490.2	196.0	185.4	-3.80	0	-80.3	307.4
10/01/2018	16:39:00	47.5	11.9	165.8	226.3	4.3	257.9	28.7	22.1	14666	13618	107639	1556.4	1146.1	490.6	196.0	185.4	-9.30	0	-90.7	305.1
10/01/2018	16:40:00	48.3	11.9	164.8	226.4	4.2	254.6	29.0	22.3	14403	13500	105493	1559.4	1145.6	490.4	196.0	185.4	-2.30	0	-81.6	311.2
10/01/2018	16:41:00	47.4	11.9	164.8	226.4	4.2	252.9	29.0	21.7	14396	13736	107503	1558.4	1144.7	490.8	196.5	185.4	-10.50	0	-93.8	294.3
10/01/2018	16:42:00	47.7	12.2	165.4	227.2	4.1	248.3	29.1	21.7	14928	13635	106945	1557.3	1144.7	490.5	196.5	185.4	-5.75	0	-87.3	300.7
10/01/2018	16:43:00	47.6	12.1	165.3	228.0	4.3	256.7	29.0	22.4	15454	13848	106540	1556.5	1143.5	490.8	196.0	185.4	-5.50	0	-87.8	277.2
10/01/2018	16:44:00	48.0	11.9	164.6	227.2	4.3	259.5	29.0	22.5	15460	13753	105016	1555.5	1145.5	490.5	196.0	185.4	-4.45	0	-84.6	286.4
10/01/2018	16:45:00	47.8	12.0	165.3	226.8	4.3	257.5	30.0	21.7	14403	13635	107279	1555.5	1145.6	490.9	196.5	185.4	-5.05	0	-85.6	305.2
10/01/2018	16:46:00	47.5	12.2	163.9	227.1	4.3	259.0	27.6	22.7	15198	13635	105276	1557.4	1146.9	490.9	196.0	185.4	-4.45	0	-81.6	311.0
10/01/2018	16:47:00	48.2	11.8	165.0	227.4	4.3	255.7	29.3	21.9	14672	13646	106135	1558.3	1145.7	491.0	196.0	185.4	-5.35	0	-85.1	303.2
10/01/2018	16:48:00	47.1	11.4	165.0	225.5	3.7	223.6	29.2	21.9	14403	13674	104408	1558.4	1147.3	491.2	196.0	185.4	-6.00	0	-89.6	287.6
10/01/2018	16:49:00	47.1	11.8	165.2	226.5	3.8	230.1	29.3	22.5	14666	13596	106970	1557.3	1143.1	491.3	195.5	185.4	-11.80	0	-93.5	294.1

Test No. 6		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
$Date	$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
10/01/2018	16:50:00	47.0	11.3	164.7	224.9	4.1	248.2	28.4	23.0	14403	13618	109988	1555.3	1140.9	491.3	195.5	185.4	-15.25	0	-99.0	261.3
10/01/2018	16:51:00	47.1	11.5	165.7	225.5	4.3	259.0	29.3	22.0	14140	13702	106844	1553.6	1137.8	491.1	195.0	185.4	-9.35	0	-90.4	280.4
10/01/2018	16:52:00	47.0	11.4	165.0	225.6	4.3	258.8	29.3	22.7	14140	13607	109921	1555.4	1136.7	491.4	194.5	185.4	-21.80	0	-106.8	268.3
10/01/2018	16:53:00	47.3	11.8	164.9	226.3	4.3	259.3	28.7	21.7	14403	13635	107222	1552.0	1134.5	491.6	194.5	185.4	-11.50	0	-91.0	312.4
10/01/2018	16:54:00	46.5	11.4	165.1	226.0	4.3	259.0	29.3	22.6	14140	13641	109969	1553.5	1133.9	491.2	194.0	184.3	-24.30	0	-110.1	266.7
10/01/2018	16:55:00	46.6	11.9	164.5	227.3	4.3	257.5	29.5	22.2	14133	13539	107776	1554.5	1132.4	491.1	193.5	184.3	-10.40	0	-89.2	309.9

January 10/2018	Waste Flows							Flows	Air Flows		Temperatures						Pressures			
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test 6	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	48.5	12.3	165.8	228.9	4.4	261.4	30.7	23.1	16249	13972	111468	1560.4	1147.3	491.6	196.5	185.4	-2.30	0.0	-80.3	313.1
Min	46.5	11.3	161.6	224.1	3.6	218.5	27.6	21.6	14133	13500	104408	1552.0	1132.4	486.6	192.0	182.4	-29.25	0.0	-117.0	260.7
Average	47.7	12.0	164.3	226.6	4.2	250.9	29.1	22.4	14763	13702	107336	1557.2	1142.2	489.2	194.8	184.4	-11.75	0.0	-93.6	294.1
Variance	0.2	0.1	0.9	1.2	0.0	127.3	0.2	0.2	241907	10971	2361945	3.1	11.9	2.4	1.6	1.2	49.88	0	84.9	232.0

Test No. 1		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	9:15:00	52.2	18.7	7.64	43.82	1.7	11.26	1.7	229.1
10/01/2018	9:16:00	50.7	18.1	7.60	43.42	1.6	11.30	2.3	227.7
10/01/2018	9:17:00	51.4	18.1	7.71	43.56	1.6	11.29	2.0	233.7
10/01/2018	9:18:00	52.6	19.6	7.78	44.05	1.6	11.26	2.1	237.5
10/01/2018	9:19:00	50.5	20.6	7.85	44.44	1.7	11.24	1.7	240.9
10/01/2018	9:20:00	48.5	18.9	7.83	44.15	1.7	11.19	2.3	239.2
10/01/2018	9:21:00	47.6	18.4	7.87	43.75	1.7	11.07	2.3	241.0
10/01/2018	9:22:00	54.7	18.4	7.74	43.65	1.8	11.07	2.0	227.9
10/01/2018	9:23:00	55.0	18.2	7.63	43.44	1.7	11.17	1.8	221.1
10/01/2018	9:24:00	57.1	16.2	7.56	43.57	1.8	11.47	2.0	221.2
10/01/2018	9:25:00	59.6	16.8	7.67	44.06	1.8	11.61	2.1	225.7
10/01/2018	9:26:00	55.1	18.6	7.74	44.09	1.6	11.40	1.9	229.7
10/01/2018	9:27:00	55.9	19.3	7.75	44.10	1.7	11.29	1.7	233.9
10/01/2018	9:28:00	57.2	19.5	7.73	43.86	1.7	11.25	2.2	233.9
10/01/2018	9:29:00	56.4	18.5	7.79	43.90	1.7	11.22	2.3	233.6
10/01/2018	9:30:00	57.6	18.9	7.81	44.12	1.6	11.25	1.8	231.1
10/01/2018	9:31:00	60.2	18.5	7.67	43.92	1.7	11.36	1.8	224.1
10/01/2018	9:32:00	60.5	18.4	7.56	43.68	1.7	11.45	2.0	220.4
10/01/2018	9:33:00	58.8	19.7	7.65	44.15	1.7	11.59	2.2	224.1
10/01/2018	9:34:00	57.6	21.8	7.81	44.55	1.7	11.45	1.8	235.0
10/01/2018	9:35:00	57.1	21.2	7.84	44.46	1.8	11.33	1.8	235.0
10/01/2018	9:36:00	53.8	0.0	7.75	44.05	1.7	11.28	2.2	232.6
10/01/2018	9:37:00	56.4	19.7	7.73	44.06	1.7	11.22	2.3	229.9
10/01/2018	9:38:00	57.7	17.5	7.70	43.66	1.8	11.19	1.6	225.7
10/01/2018	9:39:00	58.6	16.8	7.60	43.52	1.9	11.36	1.8	221.9
10/01/2018	9:40:00	57.3	18.2	7.55	43.15	1.7	11.36	2.0	221.9
10/01/2018	9:41:00	58.1	17.2	7.65	43.21	1.6	11.30	2.1	226.1
10/01/2018	9:42:00	59.6	17.4	7.71	43.57	1.7	11.29	1.6	229.5
10/01/2018	9:43:00	59.2	18.8	7.82	43.80	1.7	11.15	1.8	235.4
10/01/2018	9:44:00	58.6	17.6	7.84	44.20	1.9	11.19	2.1	242.3
10/01/2018	9:45:00	57.8	18.0	7.85	44.31	1.8	11.17	2.3	242.3
10/01/2018	9:46:00	57.4	19.0	7.82	44.47	1.8	11.18	1.6	233.3
10/01/2018	9:47:00	56.5	18.1	7.75	44.21	1.9	11.22	1.7	229.8
10/01/2018	9:48:00	59.0	17.5	7.74	44.22	1.8	11.40	1.9	233.4
10/01/2018	9:49:00	57.9	19.4	7.82	44.53	1.8	11.29	2.1	236.7
10/01/2018	9:50:00	58.1	18.3	7.82	44.40	1.8	11.28	1.6	239.7
10/01/2018	9:51:00	56.0	17.1	7.77	43.95	1.8	11.19	1.7	238.5
10/01/2018	9:52:00	55.1	18.5	7.73	43.65	1.7	11.14	2.1	238.5
10/01/2018	9:53:00	58.0	0.0	7.81	43.95	1.7	11.10	2.2	237.8
10/01/2018	9:54:00	57.4	17.5	7.82	43.97	1.8	11.11	1.5	234.2
10/01/2018	9:55:00	61.4	17.4	7.70	43.75	1.9	11.22	1.6	232.6
10/01/2018	9:56:00	60.4	18.8	7.77	43.67	1.8	11.31	1.9	234.6
10/01/2018	9:57:00	59.5	18.9	7.82	43.89	1.8	11.23	2.0	237.1
10/01/2018	9:58:00	57.1	16.7	7.84	44.41	1.9	11.17	1.6	242.0
10/01/2018	9:59:00	55.4	16.2	7.82	44.36	1.8	11.14	1.6	240.6
10/01/2018	10:00:00	52.4	16.7	7.80	44.14	1.9	11.22	2.1	240.6
10/01/2018	10:01:00	55.6	18.9	7.74	43.94	1.8	11.15	2.2	233.9
10/01/2018	10:02:00	56.4	19.1	7.69	43.51	2.1	11.12	1.6	227.6
10/01/2018	10:03:00	57.1	17.7	7.62	43.18	1.9	11.27	1.9	226.1
10/01/2018	10:04:00	60.1	16.7	7.65	43.49	1.8	11.41	1.9	229.7
10/01/2018	10:05:00	59.9	16.1	7.78	44.08	1.8	11.35	2.1	237.8
10/01/2018	10:06:00	58.6	16.8	7.80	43.85	1.9	11.11	1.6	240.6
10/01/2018	10:07:00	58.1	17.2	7.82	44.13	1.9	11.16	2.0	240.6
10/01/2018	10:08:00	57.0	15.5	7.90	44.16	1.9	11.17	2.0	243.4
10/01/2018	10:09:00	58.6	16.4	7.90	44.19	1.9	11.10	2.0	240.6
10/01/2018	10:10:00	58.7	18.5	7.81	44.23	1.9	11.18	1.6	234.6
10/01/2018	10:11:00	58.2	16.4	7.61	43.73	1.9	11.25	2.1	227.4
10/01/2018	10:12:00	59.0	17.5	7.66	43.41	1.9	11.33	1.9	229.3
10/01/2018	10:13:00	58.5	17.1	7.76	43.57	1.9	11.16	2.0	232.9
10/01/2018	10:14:00	58.1	16.6	7.78	43.89	1.8	11.13	1.6	238.4
10/01/2018	10:15:00	60.0	17.1	7.79	44.15	1.8	11.15	2.0	240.9

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	61.4	21.8	7.90	44.55	2.1	11.61	2.3	243.4
Min	47.6	0.0	7.55	43.15	1.6	11.07	1.5	220.4
Average	56.9	17.5	7.75	43.92	1.8	11.25	1.9	233.2
Variance	8.6	12.1	0.01	0.12	0.0	0.01	0.1	39.6

Test No. 2		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	10:25:00	60.1	16.6	7.91	43.96	1.9	10.99	1.9	239.5
10/01/2018	10:26:00	59.7	17.6	7.82	43.85	1.9	10.99	1.6	234.7
10/01/2018	10:27:00	61.3	17.3	7.70	43.57	1.8	11.17	1.9	233.5
10/01/2018	10:28:00	61.1	16.1	7.77	43.81	1.8	11.28	2.0	234.6
10/01/2018	10:29:00	63.6	16.6	7.86	44.57	1.9	11.31	1.7	239.3
10/01/2018	10:30:00	61.7	17.4	7.86	44.72	1.8	11.23	1.6	244.0
10/01/2018	10:31:00	60.2	18.3	7.84	44.55	1.9	11.20	2.0	245.6
10/01/2018	10:32:00	58.1	18.7	7.88	44.64	2.1	11.16	2.2	249.5
10/01/2018	10:33:00	56.0	17.6	7.83	44.72	2.1	11.14	1.6	236.3
10/01/2018	10:34:00	58.2	17.5	7.77	44.69	1.8	11.33	1.7	236.3
10/01/2018	10:35:00	59.0	17.0	7.77	44.48	1.9	11.38	1.8	242.7
10/01/2018	10:36:00	59.5	17.5	7.94	44.56	1.9	11.25	2.0	246.6
10/01/2018	10:37:00	59.0	17.5	8.05	44.85	2.1	11.05	1.5	251.8
10/01/2018	10:38:00	59.4	17.9	7.94	44.79	1.8	10.99	1.6	250.8
10/01/2018	10:39:00	58.0	18.3	7.88	44.89	1.8	11.16	2.0	250.8
10/01/2018	10:40:00	54.7	18.9	7.93	44.96	1.8	11.12	2.1	249.1
10/01/2018	10:41:00	58.6	18.2	7.93	45.00	1.8	11.12	1.5	244.9
10/01/2018	10:42:00	63.9	16.0	7.83	44.76	1.9	11.25	1.7	239.7
10/01/2018	10:43:00	61.2	16.1	7.74	44.20	1.9	11.21	1.8	236.9
10/01/2018	10:44:00	59.1	16.8	7.80	44.18	1.9	11.13	2.0	238.7
10/01/2018	10:45:00	66.2	18.5	7.90	44.43	2.1	11.12	1.5	248.4
10/01/2018	10:46:00	68.8	18.5	7.90	44.95	1.9	11.15	1.6	248.4
10/01/2018	10:47:00	61.8	17.8	7.86	44.40	1.9	11.08	2.1	245.1
10/01/2018	10:48:00	59.4	17.0	7.89	44.17	2.1	10.97	2.2	243.3
10/01/2018	10:49:00	60.0	17.4	7.85	44.39	2.1	11.02	1.5	236.6
10/01/2018	10:50:00	58.3	17.7	7.74	44.14	1.9	11.07	1.6	232.9
10/01/2018	10:51:00	61.6	17.9	7.77	44.77	2.1	11.35	1.9	236.7
10/01/2018	10:52:00	67.4	16.1	7.89	45.24	1.9	11.31	1.9	242.6
10/01/2018	10:53:00	67.9	15.2	7.89	45.34	1.9	11.25	1.5	246.2
10/01/2018	10:54:00	66.6	15.7	7.81	44.94	1.9	11.10	1.6	246.3
10/01/2018	10:55:00	65.3	0.0	7.80	44.87	1.9	11.15	2.0	247.9
10/01/2018	10:56:00	60.2	15.3	7.89	45.02	1.9	11.16	2.2	244.1
10/01/2018	10:57:00	59.4	14.8	7.77	44.61	2.1	11.13	1.6	234.2
10/01/2018	10:58:00	62.6	14.0	7.70	44.34	1.9	11.21	1.6	234.2
10/01/2018	10:59:00	63.5	14.2	7.80	44.62	1.9	11.35	1.9	240.5
10/01/2018	11:00:00	61.9	14.6	7.84	44.72	2.1	11.21	2.0	242.2
10/01/2018	11:01:00	68.6	14.6	7.89	45.15	2.2	11.18	1.6	248.4
10/01/2018	11:02:00	71.9	15.3	7.84	45.47	2.1	11.27	1.8	248.4
10/01/2018	11:03:00	70.3	14.6	7.81	45.29	2.1	11.25	2.0	245.6
10/01/2018	11:04:00	69.2	14.9	7.79	44.93	1.8	11.08	2.1	237.6
10/01/2018	11:05:00	69.6	14.3	7.77	44.82	1.9	11.09	1.6	233.4
10/01/2018	11:06:00	69.3	15.4	7.70	44.48	2.1	11.25	1.9	229.8
10/01/2018	11:07:00	67.4	16.0	7.72	44.48	1.9	11.31	1.9	232.0
10/01/2018	11:08:00	66.9	15.5	7.86	45.16	1.9	11.30	2.0	238.7
10/01/2018	11:09:00	65.1	14.7	7.85	45.14	1.9	11.16	1.5	243.8
10/01/2018	11:10:00	64.9	16.3	7.84	45.09	2.1	11.16	1.9	243.8
10/01/2018	11:11:00	67.7	16.6	7.94	45.71	1.9	11.29	2.2	247.5
10/01/2018	11:12:00	68.3	15.1	7.91	45.39	1.9	11.14	2.1	244.1
10/01/2018	11:13:00	66.7	14.8	7.79	44.95	1.9	11.10	1.6	234.9
10/01/2018	11:14:00	64.2	14.7	7.71	44.62	1.9	11.27	2.1	233.6
10/01/2018	11:15:00	67.2	15.0	7.83	45.18	2.0	11.43	2.0	238.2
10/01/2018	11:16:00	68.7	15.6	7.91	45.50	2.2	11.24	2.0	242.6
10/01/2018	11:17:00	70.2	15.6	7.90	45.40	1.9	11.14	1.6	245.8
10/01/2018	11:18:00	70.7	16.1	7.87	45.13	1.9	11.03	2.1	247.1
10/01/2018	11:19:00	63.4	16.7	7.92	44.90	2.1	10.97	2.1	247.1
10/01/2018	11:20:00	63.2	17.2	7.92	45.24	2.1	10.98	1.9	243.5
10/01/2018	11:21:00	64.6	16.4	7.80	44.54	2.1	10.99	1.6	235.8
10/01/2018	11:22:00	65.5	15.4	7.76	44.36	1.9	11.08	2.0	234.0
10/01/2018	11:23:00	67.6	15.4	7.85	44.81	2.1	11.23	2.0	239.7
10/01/2018	11:24:00	67.0	15.5	7.91	45.04	2.1	11.16	1.8	242.4
10/01/2018	11:25:00	66.0	17.4	7.98	45.34	2.1	11.06	1.6	247.9

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 2	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	71.9	18.9	8.05	45.71	2.2	11.43	2.2	251.8
Min	54.7	0.0	7.70	43.57	1.8	10.97	1.5	229.8
Average	63.7	16.1	7.84	44.77	2.0	11.17	1.8	241.6
Variance	17.9	6.1	0.01	0.20	0.0	0.01	0.0	32.8

Test No. 3		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	11:35:00	75.3	0.0	7.85	45.03	2.1	11.14	2.2	241.6
10/01/2018	11:36:00	75.1	17.5	7.74	44.81	2.1	11.13	1.5	233.4
10/01/2018	11:37:00	74.7	16.4	7.68	44.68	2.1	11.21	1.7	233.4
10/01/2018	11:38:00	72.7	16.2	7.77	44.84	1.8	11.25	1.9	238.7
10/01/2018	11:39:00	70.1	18.0	7.85	45.00	2.2	11.17	2.0	241.9
10/01/2018	11:40:00	77.2	18.4	8.01	45.38	2.2	11.02	1.5	257.9
10/01/2018	11:41:00	78.9	0.0	8.04	45.57	2.1	10.93	1.6	262.7
10/01/2018	11:42:00	74.4	17.9	8.00	45.30	2.0	10.87	2.0	259.2
10/01/2018	11:43:00	75.4	16.8	8.04	45.76	2.0	10.89	2.2	255.3
10/01/2018	11:44:00	73.2	16.3	8.02	45.81	2.1	10.91	1.5	249.1
10/01/2018	11:45:00	69.3	16.7	7.90	45.30	1.9	11.01	1.7	239.8
10/01/2018	11:46:00	66.7	17.1	7.85	45.07	2.1	11.06	1.9	237.9
10/01/2018	11:47:00	65.0	17.7	7.90	44.94	1.9	10.94	2.0	241.3
10/01/2018	11:48:00	65.5	19.2	8.02	44.92	2.0	10.77	1.6	247.7
10/01/2018	11:49:00	68.5	19.0	8.03	45.21	2.0	10.81	1.7	249.1
10/01/2018	11:50:00	69.3	19.2	8.00	45.46	2.0	10.88	2.0	250.4
10/01/2018	11:51:00	69.5	19.1	8.03	45.60	2.0	10.86	2.2	248.7
10/01/2018	11:52:00	65.4	18.4	7.93	45.40	2.1	10.93	1.5	236.7
10/01/2018	11:53:00	64.1	18.5	7.81	44.82	1.9	10.94	1.7	229.7
10/01/2018	11:54:00	66.3	17.9	7.82	44.56	2.1	11.06	1.9	212.3
10/01/2018	11:55:00	82.8	19.3	7.90	45.35	2.1	11.08	2.0	164.8
10/01/2018	11:56:00	89.8	18.4	7.89	45.61	2.1	11.14	1.5	150.7
10/01/2018	11:57:00	91.9	16.9	7.80	45.21	1.9	11.08	1.7	136.0
10/01/2018	11:58:00	95.1	16.9	7.82	45.31	1.9	11.15	2.1	128.9
10/01/2018	11:59:00	108.0	14.9	7.85	45.24	2.1	11.06	2.1	97.4
10/01/2018	12:00:00	122.8	16.4	7.75	44.97	2.1	11.06	1.6	59.6
10/01/2018	12:01:00	125.3	0.0	7.68	44.97	1.9	11.23	1.8	53.2
10/01/2018	12:02:00	108.1	14.2	7.58	44.56	2.2	11.41	1.9	46.4
10/01/2018	12:03:00	90.7	13.3	7.57	44.59	1.9	11.39	1.9	46.4
10/01/2018	12:04:00	74.7	13.9	7.57	44.40	2.1	11.35	1.5	48.4
10/01/2018	12:05:00	89.1	13.3	7.59	44.32	2.2	11.35	1.9	48.4
10/01/2018	12:06:00	96.6	12.8	7.66	44.55	2.1	11.39	2.0	48.4
10/01/2018	12:07:00	127.9	12.4	7.70	44.53	2.2	11.27	2.0	45.1
10/01/2018	12:08:00	146.1	13.3	7.62	44.40	2.1	11.31	1.6	43.0
10/01/2018	12:09:00	112.1	13.7	7.47	44.34	2.2	11.57	2.0	104.3
10/01/2018	12:10:00	62.0	12.1	7.54	44.32	2.2	11.59	1.9	164.2
10/01/2018	12:11:00	51.8	13.1	7.59	44.18	2.2	11.50	2.0	173.2
10/01/2018	12:12:00	48.5	13.6	7.72	44.49	1.9	11.35	1.6	193.2
10/01/2018	12:13:00	49.9	13.0	7.77	44.75	1.9	11.31	2.0	199.0
10/01/2018	12:14:00	51.5	13.7	7.91	45.28	2.1	11.25	2.1	209.0
10/01/2018	12:15:00	54.0	13.5	7.88	45.22	1.9	11.12	2.0	207.3
10/01/2018	12:16:00	51.9	13.0	7.76	44.57	2.1	11.00	1.6	199.7
10/01/2018	12:17:00	50.9	14.0	7.71	44.78	2.2	11.22	2.1	201.1
10/01/2018	12:18:00	52.4	14.4	7.74	44.96	2.2	11.30	2.0	203.5
10/01/2018	12:19:00	51.6	14.7	7.79	44.95	2.1	11.19	1.9	205.1
10/01/2018	12:20:00	52.4	13.5	7.82	45.19	2.1	11.16	1.6	210.4
10/01/2018	12:21:00	55.0	13.6	7.80	45.40	1.9	11.16	2.1	213.4
10/01/2018	12:22:00	57.3	14.9	7.96	45.58	1.8	11.07	2.2	216.5
10/01/2018	12:23:00	57.2	14.3	7.90	45.05	1.9	10.95	1.9	209.5
10/01/2018	12:24:00	57.2	12.9	7.76	44.67	2.2	11.10	1.6	201.5
10/01/2018	12:25:00	57.2	13.5	7.77	44.94	2.2	11.24	1.9	201.5
10/01/2018	12:26:00	56.0	14.9	7.82	45.25	2.2	11.27	2.0	206.2
10/01/2018	12:27:00	56.5	14.9	7.92	45.34	2.3	11.14	1.7	211.2
10/01/2018	12:28:00	55.1	13.9	7.95	45.26	2.2	11.04	1.7	211.2
10/01/2018	12:29:00	57.3	14.9	8.02	45.56	2.3	11.05	2.0	217.7
10/01/2018	12:30:00	58.5	15.5	8.08	45.98	2.3	11.08	2.3	222.2
10/01/2018	12:31:00	64.0	15.6	8.07	45.94	2.5	10.94	1.6	217.5
10/01/2018	12:32:00	65.3	14.4	7.89	45.60	2.4	11.00	1.7	214.4
10/01/2018	12:33:00	64.7	14.1	7.86	45.25	2.4	11.00	2.1	212.5
10/01/2018	12:34:00	63.9	15.7	8.00	45.59	2.5	10.93	2.1	217.3
10/01/2018	12:35:00	62.1	16.1	8.04	45.78	2.3	10.90	1.6	218.5

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 3	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	146.1	19.3	8.08	45.98	2.5	11.59	2.3	262.7
Min	48.5	0.0	7.47	44.18	1.8	10.77	1.5	43.0
Average	72.8	14.7	7.83	45.08	2.1	11.12	1.9	187.6
Variance	470.5	15.6	0.02	0.20	0.0	0.03	0.0	4577.5

Test No. 4		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	12:53:00	68.1	15.3	8.22	46.57	2.2	10.66	2.1	238.1
10/01/2018	12:54:00	67.7	14.7	8.24	46.73	2.2	10.60	2.3	238.1
10/01/2018	12:55:00	62.5	13.8	8.13	46.05	2.1	10.47	1.6	224.2
10/01/2018	12:56:00	60.9	13.5	8.05	45.84	2.2	10.69	1.8	221.2
10/01/2018	12:57:00	63.7	13.2	8.12	46.31	2.3	10.85	2.0	226.4
10/01/2018	12:58:00	60.6	13.6	8.23	46.31	2.3	10.66	2.1	229.8
10/01/2018	12:59:00	60.3	14.0	8.28	46.47	2.3	10.57	1.6	234.5
10/01/2018	13:00:00	67.2	14.5	8.36	46.50	2.2	10.45	2.0	236.6
10/01/2018	13:01:00	67.3	14.7	8.33	46.60	2.3	10.50	2.2	236.4
10/01/2018	13:02:00	64.7	14.9	8.28	46.28	2.3	10.39	2.2	231.0
10/01/2018	13:03:00	58.3	15.3	8.17	45.93	2.2	10.38	1.7	221.8
10/01/2018	13:04:00	61.0	15.4	8.12	46.12	2.3	10.58	2.1	221.8
10/01/2018	13:05:00	64.2	0.0	8.19	46.53	2.4	10.88	2.1	224.6
10/01/2018	13:06:00	66.2	15.5	8.20	46.48	2.3	10.62	2.1	224.6
10/01/2018	13:07:00	68.2	15.8	8.23	46.39	2.2	10.60	1.7	229.3
10/01/2018	13:08:00	70.8	14.2	8.19	46.16	2.4	10.62	2.2	228.3
10/01/2018	13:09:00	72.5	14.2	8.22	46.44	2.4	10.68	2.2	231.0
10/01/2018	13:10:00	72.9	13.7	8.21	46.32	2.4	10.55	2.1	225.2
10/01/2018	13:11:00	71.9	14.1	8.13	45.96	2.4	10.53	1.7	218.3
10/01/2018	13:12:00	76.4	16.1	8.09	46.22	2.4	10.82	2.3	217.0
10/01/2018	13:13:00	71.9	14.4	8.20	46.40	2.5	10.77	2.1	221.3
10/01/2018	13:14:00	72.1	14.6	8.24	46.87	2.7	10.74	2.1	225.4
10/01/2018	13:15:00	73.8	15.1	8.20	46.60	2.6	10.58	1.7	228.1
10/01/2018	13:16:00	76.7	14.7	8.16	46.25	2.6	10.54	2.2	226.6
10/01/2018	13:17:00	76.7	16.0	8.26	46.84	2.7	10.69	2.2	230.0
10/01/2018	13:18:00	80.6	16.4	8.23	46.85	2.8	10.62	2.0	221.3
10/01/2018	13:19:00	79.3	14.6	8.09	46.13	2.7	10.56	1.7	214.7
10/01/2018	13:20:00	73.7	13.2	7.98	45.52	2.7	10.71	2.1	212.9
10/01/2018	13:21:00	71.4	13.1	8.07	45.92	2.8	10.82	2.1	215.6
10/01/2018	13:22:00	70.2	14.8	8.13	46.29	2.8	10.68	1.9	220.1
10/01/2018	13:23:00	72.1	15.7	8.16	46.39	2.8	10.62	1.7	225.3
10/01/2018	13:24:00	72.7	14.3	8.15	46.25	2.6	10.54	2.1	227.1
10/01/2018	13:25:00	77.2	13.7	8.32	46.82	2.7	10.59	2.3	228.5
10/01/2018	13:26:00	75.1	13.7	8.22	46.40	2.6	10.47	1.8	222.9
10/01/2018	13:27:00	77.1	14.6	8.06	45.96	2.6	10.53	1.7	214.6
10/01/2018	13:28:00	81.6	14.3	8.05	46.01	2.5	10.67	1.9	214.6
10/01/2018	13:29:00	79.0	13.4	8.13	45.95	2.5	10.67	2.0	217.1
10/01/2018	13:30:00	77.9	13.3	8.22	46.56	2.7	10.69	2.0	222.9
10/01/2018	13:31:00	77.9	12.1	8.24	46.65	2.8	10.63	1.6	226.2
10/01/2018	13:32:00	80.3	11.7	8.17	46.44	2.6	10.56	1.8	229.0
10/01/2018	13:33:00	81.1	12.8	8.18	46.48	2.4	10.58	2.2	230.4
10/01/2018	13:34:00	82.7	14.6	8.21	46.67	2.4	10.52	2.3	226.8
10/01/2018	13:35:00	80.5	13.8	8.18	46.56	2.6	10.51	1.7	219.8
10/01/2018	13:36:00	81.3	14.4	7.94	45.62	2.5	10.79	1.8	207.4
10/01/2018	13:37:00	77.5	15.4	8.07	45.44	2.7	10.71	2.0	209.5
10/01/2018	13:38:00	79.8	14.9	8.16	46.24	2.7	10.79	1.6	216.0
10/01/2018	13:39:00	85.2	12.8	8.12	46.39	2.5	10.70	1.7	218.4
10/01/2018	13:40:00	81.6	12.7	8.14	46.28	2.5	10.67	2.1	221.1
10/01/2018	13:41:00	82.8	12.2	8.17	45.92	2.4	10.53	2.2	219.5
10/01/2018	13:42:00	90.3	13.1	8.09	46.47	2.7	10.64	1.6	216.7
10/01/2018	13:43:00	89.2	13.9	8.05	46.77	2.7	10.82	1.7	216.7
10/01/2018	13:44:00	84.2	12.2	8.06	46.38	2.8	10.92	1.9	216.7
10/01/2018	13:45:00	82.1	12.4	8.10	46.31	2.8	10.76	2.0	215.2
10/01/2018	13:46:00	76.3	12.5	8.13	46.35	2.8	10.76	1.6	215.2
10/01/2018	13:47:00	76.9	12.1	8.08	46.49	2.7	10.81	1.7	218.1
10/01/2018	13:48:00	79.6	11.8	8.11	46.51	2.7	10.84	2.1	221.4
10/01/2018	13:49:00	79.1	12.4	8.13	46.58	2.7	10.75	2.2	217.9
10/01/2018	13:50:00	80.1	11.9	8.11	46.27	2.5	10.73	1.5	212.4
10/01/2018	13:51:00	76.6	10.8	7.97	45.64	2.5	10.86	1.7	207.4
10/01/2018	13:52:00	77.6	12.0	7.98	45.85	2.5	11.03	1.9	208.2
10/01/2018	13:53:00	77.6	11.3	8.03	45.99	2.6	10.94	2.0	210.7

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 4	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	90.3	16.4	8.36	46.87	2.8	11.03	2.3	238.1
Min	58.3	0.0	7.94	45.44	2.1	10.38	1.5	207.4
Average	74.5	13.6	8.15	46.30	2.5	10.66	1.9	222.1
Variance	54.6	4.8	0.01	0.11	0.0	0.02	0.1	57.5

Test No. 5		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	14:45:00	77.2	12.5	8.56	47.11	2.5	10.06	1.6	244.0
10/01/2018	14:46:00	76.1	12.5	8.50	47.08	2.5	10.16	1.7	244.0
10/01/2018	14:47:00	79.3	12.3	8.53	47.16	2.7	10.31	1.9	249.5
10/01/2018	14:48:00	79.2	12.2	8.58	47.06	2.5	10.08	2.0	255.9
10/01/2018	14:49:00	80.0	13.1	8.61	47.07	2.3	9.98	1.6	261.9
10/01/2018	14:50:00	79.7	14.0	8.71	47.35	2.5	9.87	1.7	270.4
10/01/2018	14:51:00	82.6	13.2	8.78	47.51	2.3	9.86	2.1	279.3
10/01/2018	14:52:00	82.3	13.3	8.84	47.65	2.4	9.65	2.4	283.7
10/01/2018	14:53:00	85.8	14.1	8.86	47.53	2.2	9.62	1.6	279.7
10/01/2018	14:54:00	89.1	14.7	8.76	47.44	2.4	9.76	2.0	281.2
10/01/2018	14:55:00	90.9	15.6	8.84	47.67	2.5	9.89	2.0	286.3
10/01/2018	14:56:00	95.3	14.3	8.86	47.75	2.4	9.70	2.1	291.0
10/01/2018	14:57:00	100.2	13.5	8.92	48.11	2.5	9.55	1.6	300.9
10/01/2018	14:58:00	104.6	15.1	8.95	48.09	2.4	9.53	2.0	298.5
10/01/2018	14:59:00	107.0	16.1	9.00	48.41	2.4	9.59	2.2	302.7
10/01/2018	15:00:00	92.6	15.8	8.99	48.15	2.5	9.42	2.1	294.4
10/01/2018	15:01:00	83.9	15.2	8.92	47.98	2.6	9.46	1.6	284.1
10/01/2018	15:02:00	84.6	15.2	8.73	47.38	2.5	9.75	2.2	270.4
10/01/2018	15:03:00	81.8	15.6	8.68	46.86	2.5	9.79	2.0	269.3
10/01/2018	15:04:00	83.0	16.3	8.79	46.91	2.5	9.66	2.1	273.5
10/01/2018	15:05:00	103.4	15.7	8.85	47.78	2.5	9.63	1.7	287.5
10/01/2018	15:06:00	94.0	15.1	8.77	47.54	2.4	9.64	2.1	280.2
10/01/2018	15:07:00	66.7	13.2	8.70	46.99	2.4	9.77	2.2	265.5
10/01/2018	15:08:00	63.9	12.5	8.68	46.76	2.5	9.76	2.1	260.1
10/01/2018	15:09:00	52.0	13.9	8.64	47.04	2.7	9.98	1.6	252.6
10/01/2018	15:10:00	44.4	14.4	8.24	46.02	2.8	10.25	2.1	221.8
10/01/2018	15:11:00	43.3	14.5	8.17	46.21	2.8	10.58	1.9	206.0
10/01/2018	15:12:00	52.6	16.0	8.10	46.79	2.9	10.81	1.9	197.0
10/01/2018	15:13:00	54.6	15.5	8.10	47.14	3.0	10.81	1.6	199.9
10/01/2018	15:14:00	63.2	14.5	8.08	46.90	3.0	10.80	2.1	197.5
10/01/2018	15:15:00	63.5	14.8	8.07	46.60	3.1	10.79	2.1	197.5
10/01/2018	15:16:00	71.7	13.3	8.05	46.33	3.1	10.72	1.8	191.4
10/01/2018	15:17:00	84.1	13.8	7.92	46.05	3.0	10.85	1.7	185.1
10/01/2018	15:18:00	88.4	14.5	7.91	45.96	3.1	10.95	1.9	185.1
10/01/2018	15:19:00	91.8	14.1	7.99	46.20	3.1	10.96	1.9	192.4
10/01/2018	15:20:00	91.0	13.7	8.00	46.28	3.0	10.88	1.8	195.4
10/01/2018	15:21:00	76.9	13.7	8.14	46.13	2.9	10.64	1.6	207.3
10/01/2018	15:22:00	70.2	12.2	8.29	46.26	3.0	10.60	2.0	216.5
10/01/2018	15:23:00	67.9	12.6	8.37	46.34	3.1	10.55	2.1	217.9
10/01/2018	15:24:00	77.5	15.2	8.33	46.36	3.0	10.46	1.7	212.9
10/01/2018	15:25:00	78.4	15.0	8.17	45.97	3.1	10.44	1.7	209.9
10/01/2018	15:26:00	74.5	14.7	8.05	45.18	3.1	10.52	1.9	209.9
10/01/2018	15:27:00	66.1	14.4	8.27	46.08	3.1	10.58	2.0	216.0
10/01/2018	15:28:00	61.4	14.2	8.36	46.52	3.0	10.55	1.7	222.3
10/01/2018	15:29:00	59.9	14.3	8.43	46.78	3.1	10.33	1.7	230.0
10/01/2018	15:30:00	59.8	14.3	8.42	46.91	3.0	10.32	2.1	231.3
10/01/2018	15:31:00	59.6	13.9	8.48	46.88	2.9	10.19	2.2	232.7
10/01/2018	15:32:00	60.5	15.0	8.44	46.40	2.9	10.10	1.6	224.2
10/01/2018	15:33:00	62.2	14.1	8.34	46.29	2.8	10.14	1.7	220.2
10/01/2018	15:34:00	71.4	13.9	8.28	46.48	2.9	10.47	1.9	220.3
10/01/2018	15:35:00	68.4	14.1	8.35	46.49	2.8	10.48	2.1	220.3
10/01/2018	15:36:00	66.2	13.4	8.41	47.03	2.8	10.42	1.6	228.8
10/01/2018	15:37:00	68.4	13.5	8.44	47.24	2.8	10.39	1.7	232.9
10/01/2018	15:38:00	69.0	14.7	8.47	46.87	2.8	10.28	2.2	234.2
10/01/2018	15:39:00	70.6	16.3	8.45	46.77	2.8	10.21	2.3	229.3
10/01/2018	15:40:00	76.6	16.3	8.43	46.69	2.8	10.21	1.6	224.5
10/01/2018	15:41:00	75.5	14.4	8.29	45.99	2.8	10.27	1.7	218.3
10/01/2018	15:42:00	75.5	14.6	8.21	45.81	3.0	10.33	2.0	216.0
10/01/2018	15:43:00	70.8	15.3	8.42	46.45	2.9	10.37	2.0	225.9
10/01/2018	15:44:00	55.6	14.0	8.35	46.59	2.8	10.27	1.5	223.7
10/01/2018	15:45:00	48.5	13.2	8.03	45.79	2.9	10.31	1.7	206.7

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 5	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	107.0	16.3	9.00	48.41	3.1	10.96	2.4	302.7
Min	43.3	12.2	7.91	45.18	2.2	9.42	1.5	185.1
Average	74.7	14.3	8.46	46.84	2.7	10.20	1.9	238.8
Variance	214.9	1.2	0.09	0.46	0.1	0.18	0.1	1145.0

Test No. 6		CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
$Date	$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
10/01/2018	15:55:00	78.5	14.0	8.35	46.54	2.9	10.41	2.2	224.6
10/01/2018	15:56:00	78.9	16.3	8.24	46.30	2.9	10.38	1.6	218.3
10/01/2018	15:57:00	77.4	15.7	8.21	46.19	2.8	10.45	2.0	218.3
10/01/2018	15:58:00	78.9	15.1	8.33	46.70	2.9	10.64	2.0	223.8
10/01/2018	15:59:00	75.4	15.1	8.43	46.79	2.8	10.51	2.1	225.3
10/01/2018	16:00:00	70.2	13.2	8.52	46.86	2.8	10.32	1.6	232.7
10/01/2018	16:01:00	69.7	14.4	8.42	46.87	2.6	10.24	2.1	232.7
10/01/2018	16:02:00	66.8	15.3	8.45	46.86	2.6	10.23	2.2	232.7
10/01/2018	16:03:00	70.6	14.2	8.53	46.73	2.6	10.14	2.1	225.4
10/01/2018	16:04:00	75.5	13.7	8.45	46.56	2.5	10.18	1.6	220.7
10/01/2018	16:05:00	84.8	14.9	8.32	46.88	2.6	10.45	2.2	222.6
10/01/2018	16:06:00	81.1	14.2	8.46	47.00	2.4	10.44	1.9	228.3
10/01/2018	16:07:00	73.6	15.4	8.50	46.57	2.6	10.24	2.1	228.3
10/01/2018	16:08:00	72.8	16.1	8.55	47.00	2.4	10.11	1.7	235.5
10/01/2018	16:09:00	75.3	15.1	8.55	47.24	2.3	10.16	2.2	235.5
10/01/2018	16:10:00	75.2	15.0	8.57	47.12	2.3	10.13	2.2	238.0
10/01/2018	16:11:00	76.5	15.8	8.60	46.99	2.3	10.03	2.0	236.5
10/01/2018	16:12:00	77.9	15.8	8.53	46.73	2.3	10.01	1.7	230.0
10/01/2018	16:13:00	75.3	15.9	8.48	46.95	2.3	10.23	2.0	230.4
10/01/2018	16:14:00	74.1	15.3	8.54	46.99	2.3	10.29	2.1	230.4
10/01/2018	16:15:00	73.2	16.7	8.57	46.90	2.3	10.13	2.0	233.7
10/01/2018	16:16:00	74.2	16.8	8.58	47.03	2.2	10.08	1.6	238.6
10/01/2018	16:17:00	77.7	15.3	8.52	46.99	2.2	10.08	2.1	237.2
10/01/2018	16:18:00	78.5	14.0	8.61	47.44	2.4	10.15	2.2	238.4
10/01/2018	16:19:00	77.3	15.7	8.67	47.43	2.3	10.13	1.9	235.2
10/01/2018	16:20:00	75.9	15.3	8.51	46.84	2.3	10.15	1.8	229.4
10/01/2018	16:21:00	77.4	14.7	8.42	46.62	2.3	10.22	2.0	227.7
10/01/2018	16:22:00	73.6	15.5	8.57	46.83	2.4	10.22	2.1	232.6
10/01/2018	16:23:00	73.5	16.1	8.67	47.40	2.4	10.11	1.7	243.8
10/01/2018	16:24:00	72.3	16.3	8.64	47.21	2.3	9.98	1.7	243.8
10/01/2018	16:25:00	70.4	15.9	8.59	46.88	2.5	9.93	2.1	243.8
10/01/2018	16:26:00	70.2	15.5	8.65	47.28	2.3	10.02	2.2	246.5
10/01/2018	16:27:00	70.8	15.4	8.66	47.28	2.3	9.99	1.6	236.0
10/01/2018	16:28:00	72.6	15.3	8.46	47.15	2.5	10.18	1.7	231.6
10/01/2018	16:29:00	73.1	14.2	8.44	46.81	2.5	10.20	1.9	231.6
10/01/2018	16:30:00	78.1	14.4	8.62	47.09	2.3	10.16	2.0	236.5
10/01/2018	16:31:00	77.4	15.6	8.65	47.27	2.4	10.14	1.6	240.1
10/01/2018	16:32:00	74.5	16.0	8.65	47.17	2.2	10.02	1.7	243.1
10/01/2018	16:33:00	78.0	17.3	8.63	47.12	2.3	10.03	2.1	244.7
10/01/2018	16:34:00	80.9	15.9	8.65	47.43	2.3	9.98	2.2	247.9
10/01/2018	16:35:00	75.5	14.5	8.56	46.91	2.2	9.92	1.6	235.1
10/01/2018	16:36:00	74.5	15.1	8.53	46.77	2.2	10.05	1.8	232.7
10/01/2018	16:37:00	77.1	15.9	8.51	47.00	2.3	10.29	1.9	235.4
10/01/2018	16:38:00	76.9	16.1	8.57	47.01	2.3	10.21	2.0	237.3
10/01/2018	16:39:00	78.4	15.1	8.70	47.67	2.3	10.11	1.5	244.9
10/01/2018	16:40:00	78.1	13.1	8.67	47.32	2.1	9.98	1.6	243.5
10/01/2018	16:41:00	76.2	13.5	8.66	47.34	2.2	10.04	2.1	243.5
10/01/2018	16:42:00	76.1	15.4	8.64	47.30	2.2	10.02	2.2	239.1
10/01/2018	16:43:00	77.6	16.4	8.61	47.47	2.1	10.05	1.5	238.1
10/01/2018	16:44:00	80.1	16.0	8.51	47.12	2.2	10.12	1.6	235.8
10/01/2018	16:45:00	81.6	15.6	8.51	46.72	2.2	10.10	1.9	235.8
10/01/2018	16:46:00	76.7	16.5	8.60	46.99	2.3	10.03	2.0	238.1
10/01/2018	16:47:00	76.6	14.8	8.60	47.25	2.1	9.95	1.6	243.9
10/01/2018	16:48:00	76.2	14.3	8.61	47.06	2.2	9.92	1.6	242.5
10/01/2018	16:49:00	74.8	15.0	8.69	47.64	2.2	10.09	2.0	245.9
10/01/2018	16:50:00	75.2	15.7	8.63	47.70	2.2	10.02	2.2	241.4
10/01/2018	16:51:00	74.8	13.9	8.46	47.08	2.1	10.08	1.6	220.5
10/01/2018	16:52:00	75.3	12.0	8.36	46.58	2.1	10.34	1.7	215.7
10/01/2018	16:53:00	74.8	12.0	8.39	46.50	1.9	10.39	1.9	217.3
10/01/2018	16:54:00	80.6	13.2	8.46	46.74	2.1	10.31	2.0	217.3
10/01/2018	16:55:00	82.9	13.5	8.52	47.23	2.0	10.38	1.6	220.7

January 10/2018	Analyzers							
	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2
Test 6	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	84.8	17.3	8.70	47.70	2.9	10.64	2.2	247.9
Min	66.8	12.0	8.21	46.19	1.9	9.92	1.5	215.7
Average	75.9	15.1	8.53	47.01	2.4	10.16	1.9	233.7
Variance	11.3	1.2	0.01	0.10	0.0	0.03	0.1	71.4