



Report:

Mercury Emission Testing at the Clean Harbors Sarnia Facility (July 2016)

Date: September 1, 2016



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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 July 20, 2016. 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 is provided below:

Mercury Parameter	Average
Dry Reference Concentration ($\mu\text{g}/\text{Rm}^3$)*	1.49
Dry Adjusted Concentration ($\mu\text{g}/\text{Rm}^3$)**	1.24

* 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 22.6 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, *“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 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 July 20, 2016. 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 two probes in parallel so that the mercury traps were only 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 approximately 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 $\pm 10\%$ 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 $\pm 10\%$ 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 $\pm 10\%$ of the expected value.

Approximately two weeks before the field testing, sample media was ordered from Ohio Lumex. Six unspiked mercury traps and six pre-spiked mercury traps were ordered. 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 fell within 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 2016. The pre-spiked mercury trap for Test No. 1 (100 ng) was used for spike recovery determination as the concentrations best fit the requirements of the QA/QC criteria (within $\pm 50\%$ of the expected concentration). The concentration in the Test No. 1 spiked tube (100 ng) was 85% of the average mercury collected for Test No. 1, Test No. 2 and Test No. 4 (85.2 ng).

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. 1 fell within the spike range criterion stated in the test method. The spike recovery for Test No. 1 was 97.4%. 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 $\leq 10\%$ relative deviation for mercury concentrations greater than $1 \mu\text{g}/\text{Rm}^3$ or $\leq 20\%$ relative deviation for mercury concentrations less than $1 \mu\text{g}/\text{Rm}^3$. 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 $1 \mu\text{g}/\text{Rm}^3$. The average dry adjusted mercury concentration ranged from a low of $1.09 \mu\text{g}/\text{Rm}^3$ to a high of $1.42 \mu\text{g}/\text{Rm}^3$ for the six tests performed. The paired trap agreement was 1.4% for Test No. 1, 9.0% for Test No. 2, and 2.2% for Test No. 4.

6. RESULTS

Six mercury runs were collected during one day of sampling on July 20, 2016. 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. 1, Test No. 2 and Test No. 4 are reported.

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. 1, Test No. 2 and Test No. 4 are provided in Table 3. Mercury was detected in Section 1 of each trap in quantities greater than the method detection limit (0.493 ng) in all of the traps. Mercury was also collected in Section 2 in five of the twelve traps in quantities greater than the method detection limit. However, the amount detected in Section 2 was less than 1.2% of the mercury collected in Section 1, indicating that there was no breakthrough or potential loss of mercury. US EPA Method 30B states that $\leq 10\%$ of the total mercury collected should be collected in Section 2 for mercury concentrations greater than $1 \mu\text{g}/\text{Rm}^3$ or $\leq 20\%$ of the total mercury collected should be collected in Section 2 for mercury concentrations less than $1 \mu\text{g}/\text{Rm}^3$.

Included in Table 2 are the mercury concentration calculations for Test No. 1, Test No. 2 and Test No. 4. 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.

Approximately two weeks before the field testing, sample media was ordered from Ohio Lumex. Six unspiked mercury traps and six pre-spiked mercury traps were ordered. 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 fell within the spiking criterion stated in the test method. The pre-spiked mercury trap for Test No. 1 (100 ng) was used for spike recovery determination as the concentration best fit the requirements of the QA/QC criteria (within $\pm 50\%$ of the expected concentration).

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 1.4% for Test No. 1, 9.0% for Test No. 2, and 2.2% for Test No. 4. The mercury emission data from the total vapour phase mercury tests is provided below:

Mercury Parameter	Test 1	Test 2	Test 4	Average
Dry Reference Conc. ($\mu\text{g}/\text{Rm}^3$)*	1.56	1.53	1.39	1.49
Dry Adjusted Conc. ($\mu\text{g}/\text{Rm}^3$ **	1.30	1.25	1.18	1.24

* 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 $\mu\text{g}/\text{Rm}^3$ adjusted to 11% oxygen. The mercury concentrations were below this limit during the test program.

The spiked mercury trap recovery calculation for Test No. 1 is shown in Table 3; the spike recovery for Test No. 1 was 97.4. US EPA Method 30B requires the average of the spike recoveries 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, CO₂, H₂O, THC, O₂, SO₂)
- stack gas opacity
- carbon injection rate

During the emission testing program, the average powdered activated carbon (PAC) injection rate was 22.6 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	July 20, 2016	9:51	10:51	60
2	July 20, 2016	11:06	12:06	60
3	July 20, 2016	12:21	13:21	60
4	July 20, 2016	13:38	14:38	60
5	July 20, 2016	14:54	15:54	60
6	July 20, 2016	16:05	17:05	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			Dry Gas Volume Sampled Rm ^{3*}	Mercury Concentration		Paired Trap Agreement %
		Section 1 ng	Section 2 ng	Total ng		Dry Reference µg/Rm ^{3*}	Dry Adjusted µg/Rm ^{3**}	
1	A ***	84.2	0.2	84.4	0.0549	1.54	1.28	-
	B	93.9	<0.49	93.9	0.0594	1.58	1.31	-
	Average					1.56	1.30	1.4
2	A	91.4	1.0	92.4	0.0555	1.66	1.36	-
	B ***	82.4	1.3	83.7	0.0603	1.39	1.13	-
	Average					1.53	1.25	9.0
4	A	76.3	<0.49	76.3	0.0560	1.36	1.15	-
	B ***	80.5	<0.49	80.5	0.0565	1.42	1.20	-
	Average					1.39	1.18	2.2
Average				85.2		1.49	1.24	

Note: Concentration data is only report 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 (100 ng for Test No. 1, 250 ng for Test No. 2, 800 ng for Test No. 4).

Table 3: Mercury Spike Tube Recovery

Test No.	Spike Tube			Unspike Tube			Spike Concentration ng/Rm ^{3*}	Spike Recovery %
	Total Collected ng	Volume Sampled Rm ^{3*}	Mercury Concentration ng/Rm ^{3*}	Total Collected ng	Volume Sampled Rm ^{3*}	Mercury Concentration ng/Rm ^{3*}		
1	184	0.0549	3354	93.9	0.0594	1580	1774	97.4
2	334	0.0603	5538	92.4	0.0555	1665	3874	NA
4	881	0.0565	15579	76.3	0.0560	1362	14216	NA
Average								97.4

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations were 100 ng for Test No. 1, 250 ng for Test No. 2 and 800 ng for Test No. 4.

"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 ₂ O)	Average DGM Temperature (°C)	Corrected Volume (L)*	Corrected Volume (Rm ³)*
T1A OLC025413 Spiked	0.991	61.80	118.18	56.38	29.6	1.8	28.5	54.91	0.0549
T1B OLC025413	0.996	84.40	145.15	60.75	29.6	1.4	28.4	59.43	0.0594
T2A OLC025459	0.991	19.92	77.60	57.68	29.6	2.0	32.2	55.51	0.0555
T2B OLC013396 Spiked	0.996	47.32	109.75	62.43	29.6	1.4	32.4	60.25	0.0603
T3A OLC025428	0.991	80.98	139.51	58.53	29.6	2.0	33.5	56.07	0.0561
T3B OLC025428	0.996	13.68	74.78	61.10	29.6	1.4	34.7	58.51	0.0585
T4A OLC025473	0.991	46.32	104.80	58.48	29.6	2.0	33.4	56.00	0.0560
T4B OLC025473	0.996	83.17	142.00	58.83	29.6	1.4	33.5	56.52	0.0565
T5A OLC025470	0.991	5.81	64.46	58.65	29.6	2.0	36.1	55.66	0.0557
T5B OLC025470	0.996	43.12	106.69	63.57	29.6	1.4	35.8	60.60	0.0606
T6A OLC025479	0.991	65.86	125.81	59.95	29.6	2.0	36.3	56.81	0.0568
T6B OLC025479	0.996	8.50	71.73	63.23	29.6	1.4	37.0	60.00	0.0600

* dry at 25°C and 1 atmosphere

ORTECH Environmental Mercury Tube Data Sheet

Plant:	Clean Habor
Plant Location:	Corunna, Ontario
Test No.:	

Test location:	Stack Breeching
Date:	July 20 2016
Project No.:	21701

Train A

Tube Identification:	OL369249	Spiked	Yes	No
Spike Concentration	100	ng		

Measuring Device	MII
Control Module	2 10117
Barometer	ENV-CAN

Barometric Pressure	29.62
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	61.80	24		1.9	2
5	66.0	26		1.8	3
10	70.6	27		1.8	4
15	75.1	27		1.8	4
20	79.8	28		1.8	4.5
25	84.1	29		1.8	5
30	89.1	29		1.9	5
35	94.0	29		1.9	5
40	99.0	30		1.9	5
45	104.0	30		1.9	5
50	109.0	30		1.9	5
55	114.0	31		1.9	5
60	118.18	31		1.8	5

Start Time:	9:51	Initial Leak Check	2.01 Lpm @ 17" Hg	DGMCF:	0.991
Finish Time:	10:51	Final Leak Check	2.01 Lpm @ 15" Hg	Sample Volume:	56.38
				Average DGM Temp:	28.5
				Average DGM ΔH :	1.8

Train B

Tube Identification:	OLC025413	Spiked	Yes	No
Spike Concentration		ng		

Measuring Device	MII
Control Module	5 COE 200 FB

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	84.4	25		1.4	2
5	89.0	26		1.4	6
10	93.8	26		1.4	8
15	98.7	27		1.4	9
20	103.5	28		1.4	9
25	108.3	28		1.4	9
30	113.3	29		1.4	9
35	118.5	29		1.4	9
40	123.0	29		1.4	9
45	128.4	30		1.4	9
50	133.4	30		1.4	9
55	138.4	31		1.4	9
60	145.15	31		1.4	9

Start Time:	9:51	Initial Leak Check	2.01 Lpm @ 19" Hg	DGMCF:	0.996
Finish Time:	10:51	Final Leak Check	2.01 Lpm @ 15" Hg	Sample Volume:	60.75
				Average DGM Temp:	28.4
				Average DGM ΔH :	1.4

Operator:	D. J. W.
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ORTECH Environmental Mercury Tube Data Sheet

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

Test location:	Stack Breaching
Date:	JULY 20 2016
Project No.:	21701

Train A

Tube Identification:	OLC 02549	Spiked	Yes	No
Spike Concentration	—	ng		

Measuring Device	MII
Control Module	2 10117
Barometer	EN-CAN

Barometric Pressure	29.61
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet Ave °C	Inlet °C		
0	19.92	29		2.0	4
5	25.7	30		2.0	5
10	29.8	31		2.0	6
15	34.5	32		2.0	6
20	39.2	32		2.0	6
25	44.2	33		2.0	7
30	49.2	33		2.0	7
35	54.2	33		2.0	7
40	59.1	33		2.0	7
45	64.1	33		2.0	7
50	69.0	33		2.0	7
55	73.0	33		2.0	7
60	77.60	33		2.0	7

Start Time:	1106	Initial Leak Check	2.01 Lpm @ 15" Hg	DGMCF:	0.991
Finish Time:	1206	Final Leak Check	2.0 Lpm @ 15" Hg	Sample Volume:	57.68
				Average DGM Temp:	32.2
				Average DGM ΔH :	2.0

Train B

Tube Identification:	OLC 013396	Spiked	Yes	No
Spike Concentration	250	ng		

Measuring Device	MII
Control Module	5 COE20018

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet Ave °C	Inlet °C		
0	47.32	29		1.4	4
5	52.3	32		1.4	4
10	57.1	32		1.4	4
15	62.2	32		1.4	4
20	67.5	32		1.4	4
25	73.0	33		1.4	4
30	78.0	33		1.4	4
35	83.5	33		1.4	4
40	89.5	33		1.4	4
45	94.0	33		1.4	4
50	99.0	33		1.4	4
55	104.0	33		1.4	4
60	109.75	33		1.4	4

Start Time:	1106	Initial Leak Check	2.0 Lpm @ 15" Hg	DGMCF:	0.996
Finish Time:	1206	Final Leak Check	2.0 Lpm @ 15" Hg	Sample Volume:	62.43
				Average DGM Temp:	32.4
				Average DGM ΔH :	1.4

Operator:	R J V
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ORTECH Environmental Mercury Tube Data Sheet

Plant:	Clean Habor
Plant Location:	Corunna, Ontario
Test No.:	3

Test location:	Stack Breeching
Date:	July 20 2016
Project No.:	21701

Train A

Tube Identification:	0L29911	Spiked	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Spike Concentration	500	ng		

Measuring Device	MII
Control Module	10117
Barometer	ENV.CAN

Barometric Pressure	29.60
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVE °C	Inlet °C		
0	80.98	31		2.0	5
5	85.5	33		2.0	5
10	90.6	33		2.0	5
15	95.8	33		2.0	5
20	100.0	33		2.0	5
25	105.4	34		2.0	5
30	110.4	34		2.0	5
35	115.2	34		2.0	5
40	120.2	34		2.0	5
45	125.2	34		2.0	5
50	130.0	34		2.0	5
55	134.4	34		2.0	5
60	139.51	34		2.0	5

Start Time:	1221	Initial Leak Check	2.0 Lpm @ 15" Hg	DGMCF:	0.991
Finish Time:	1321	Final Leak Check	2.0 Lpm @ 15" Hg	Sample Volume:	58.53
				Average DGM Temp:	33.5
				Average DGM Δ H:	2.0

Train B

Tube Identification:	0L025428	Spiked	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Spike Concentration		ng		

Measuring Device	MII
Control Module	COE 20018

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVE °C	Inlet °C		
0	13.68	34		1.4	4
5	18.8	34		1.4	4
10	23.7	34		1.4	4
15	28.8	34		1.4	4
20	34.0	35		1.4	4
25	39.0	35		1.4	4
30	44.2	35		1.4	4
35	49.3	35		1.4	4
40	54.3	35		1.4	4
45	59.5	35		1.4	4
50	64.6	35		1.4	4
55	69.7	35		1.4	4
60	74.78	35		1.4	4

Start Time:	1221	Initial Leak Check	2.0 Lpm @ 15" Hg	DGMCF:	0.996
Finish Time:	1321	Final Leak Check	2.0 Lpm @ 15" Hg	Sample Volume:	61.10
				Average DGM Temp:	34.7
				Average DGM Δ H:	1.4

Operator:	D. J. U.
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ORTECH Environmental Mercury Tube Data Sheet

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

Test location:	Stack Breeching
Date:	July 20 2016
Project No.:	21701

Train A

Tube Identification:	OLC025173	Spiked	Yes	No
Spike Concentration		ng		

Measuring Device	MII
Control Module	10117
Barometer	ENVICAN

Barometric Pressure	29.59
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	46.32	31		2.0	4
5	51.5	32		2.0	5
10	56.4	32		2.0	5
15	59.	32		2.0	5
20		32		2.0	5
25	68.0	34		2.0	5
30	73.0	34		2.0	5
35	78.0	35		2.0	5
40	84.0	35		2.0	5
45	89.2	35		2.0	5
50	94.4	35 34		2.0	5
55	95.5	34 34		2.0	5
60	104.80	34 34		2.0	5

Start Time:	1338	Initial Leak Check	2.01 Lpm @ 15" Hg	DGMCF:	0.991
Finish Time:	1438	Final Leak Check	2.01 Lpm @ 16" Hg	Sample Volume:	58.48
				Average DGM Temp:	33.4
				Average DGM ΔH :	2.0

Train B

Tube Identification:	OL334999	Spiked	Yes	No
Spike Concentration	800	ng		

Measuring Device	MII
Control Module	COE2018

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure ΔH "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	83.17	33		1.4	4
5	88.4	33		1.4	4
10	93.4	33		1.4	4
15	98.0	33		1.4	4
20	103.0	33		1.4	4
25	107.5	33		1.4	4
30	112.4	33		1.4	4
35	117.2	34		1.4	4
40	122.4	34		1.4	4
45	127.2	34		1.4	4
50	132.2	34		1.4	4
55	137.2	34		1.4	4
60	142.00	34		1.4	4

Start Time:	1338	Initial Leak Check	2.01 Lpm @ 15" Hg	DGMCF:	0.996
Finish Time:	1438	Final Leak Check	2.01 Lpm @ 16" Hg	Sample Volume:	58.83
				Average DGM Temp:	33.5
				Average DGM ΔH :	1.4

Operator:	D. J. U.
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ORTECH Environmental Mercury Tube Data Sheet

Plant:	Clean Haboris
Plant Location:	Corunna, Ontario
Test No.:	5

Test location:	Stack Breeching
Date:	July 20 2016
Project No.:	2701

Train A

Tube Identification:	OL395257	Spiked	<input checked="" type="radio"/> Yes <input type="radio"/> No
Spike Concentration	1400	ng	

Measuring Device	MII
Control Module	10101
Barometer	ENVI-CAN

Barometric Pressure	29.57
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	5.81	32		2.0	4
5	10.7	34		2.0	6
10	15.5	35		2.0	6
15	20.4	36		2.0	6
20	25.3	36		2.0	6
25	30.2	37		2.0	6
30	35.1	37		2.0	6
35	40.0	37		2.0	6
40	45.0	37		2.0	6
45	50.0	37		2.0	6
50	54.7	37		2.0	6
55	59.7	37		2.0	6
60	64.46	37		2.0	6

Start Time:	14:54	Initial Leak Check	6.01 Lpm @ 16" Hg	DGMCF:	0.991
Finish Time:	15:54	Final Leak Check	6.01 Lpm @ 16" Hg	Sample Volume:	58.65
				Average DGM Temp:	36.1
				Average DGM Δ H:	2.0

Train B

Tube Identification:	OLC025470	Spiked	<input type="radio"/> Yes <input checked="" type="radio"/> No
Spike Concentration		ng	

Measuring Device	MII
Control Module	COE 200198

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet AVG °C	Inlet °C		
0	43.12	34		1.4	9
5	48.3	34		1.4	9
10	53.5	34		1.4	9
15	58.7	35		1.4	9
20	64.1	35		1.4	9
25	69.4	35		1.4	9
30	74.8	35		1.4	9
35	79.9	36		1.4	9
40	85.1	37		1.4	9
45	90.6	37		1.4	9
50	96.2	37		1.4	9
55	101.4	37		1.4	9
60	106.49	37		1.4	9

Start Time:	14:54	Initial Leak Check	6.01 Lpm @ 16" Hg	DGMCF:	0.996
Finish Time:	15:54	Final Leak Check	6.01 Lpm @ 16" Hg	Sample Volume:	63.57
				Average DGM Temp:	35.8
				Average DGM Δ H:	1.4

Operator:	D. J. U. S.
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ORTECH Environmental Mercury Tube Data Sheet

Plant:	Clean Habors
Plant Location:	Corunna, Ontario
Test No.:	6

Test location:	Stack Breaching
Date:	July 20 2016
Project No.:	21701

Train A

Tube Identification:	OLC0254A	Spiked	Yes	No
Spike Concentration		ng		

Measuring Device	MII
Control Module	1017
Barometer	ENV-CAN

Barometric Pressure	29.55
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Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet Avg °C	Inlet °C		
0	65.86	35		2.0	315.6
5	70.6	36		2.0	
10	75.4	36		2.0	
15	80.4	36		2.0	
20	85.3	36		2.0	
25	90.4	36		2.0	
30	95.3	36		2.0	
35	100.4	36		2.0	
40	105.6	37		2.0	
45	110.7	37		2.0	
50	115.8	37		2.0	
55	120.9	37		2.0	
60	125.8	37		2.0	

Start Time:	1605	Initial Leak Check	2.01 Lpm @ 16" Hg	DGMCF:	0.991
Finish Time:	1707	Final Leak Check	2.01 Lpm @ 65" Hg	Sample Volume:	59.95
				Average DGM Temp:	36.3
				Average DGM Δ H:	2.0

Train B

Tube Identification:	OL33144	Spiked	Yes	No
Spike Concentration	2600	ng		

Measuring Device	MII
Control Module	COE 20018

Clock Time	Dry Gas Meter L	Meter Temperature		Meter Pressure Δ H "H ₂ O	Pump Vacuum "Hg Gauge
		Outlet Avg °C	Inlet °C		
0	9.50	36		1.4	315.6
5	14.0	36		1.4	
10	18.7	36		1.4	
15	25.0	36		1.4	
20	30.0	37		1.4	
25	35.5	37		1.4	
30	40.0	37		1.4	
35	45.8	37		1.4	
40	50.0	37		1.4	
45	55.9	38		1.4	
50	61.2	38		1.4	
55	66.3	38		1.4	
60	71.73	38		1.4	

Start Time:	1605	Initial Leak Check	2.01 Lpm @ 16" Hg	DGMCF:	0.996
Finish Time:	1705	Final Leak Check	2.01 Lpm @ 145" Hg	Sample Volume:	63.23
				Average DGM Temp:	37.0
				Average DGM Δ H:	1.4

Operator:	D. V. G.
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APPENDIX 3

ORTECH Equipment Calibration Data (4 pages)

ORTECH Environmental

Dry Gas Meter Calibration Data

Calibration Procedure	03-J004
Meter Number	Vost 2
Date	July 22, 2016
Barometric Pressure	29.47
System Leak Check	<.01lpm @ 21" Hg

MH NUMBERS	
DGM	A10117
Gasometer	A01463
Barometer	COE20028

Calibrated By	David Utley
Signature	<i>[Signature]</i>
Reviewed and Accepted By	<i>[Signature]</i>

$ft^3 = cm^3 \times 1.332$ litres per cm³ / 28.3168 litres per ft³

$$DGMCF = \frac{V_{std} \text{ ft}^3}{V_{dgm} \text{ ft}^3} = \frac{T_{dgm} \text{ } ^\circ F + 460}{T_{std} \text{ } ^\circ F + 460} \times \frac{P_{bar} \text{ (in. Hg)}}{(P_{bar} \text{ in. Hg} + DGM \text{ Pressure}) / 13.6}$$

Initial	Final	Gasometer Reading		Gasometer Volume	Gasometer Temperature	DGM Reading		DGM Volume	DGM Average Temperature	DGM Pressure	DGM Outlet	DGM Calibration	Time	Flow Rate
		cm	cm			L	L							
81.60	52.00	29.60	29.60	1.392	24.0	38.300	78.790	1.430	31.0	2.0	31.0	0.992	42	1.0
52.00	30.30	21.70	21.70	1.021	24.0	78.790	108.400	1.046	31.0	2.0	31.0	0.994	31	1.0
83.20	61.20	22.00	22.00	1.035	24.0	8.400	38.650	1.068	31.0	2.0	31.0	0.987	31	1.0

DGMCF AVERAGE
1 Lpm 0.991

Acceptance Criteria:
Individual values of DGM calibration factor must be within $\pm 1.5\%$ 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)

ORTECH Environmental Trendicator Calibration

Calibration Procedure	03-J005
Trendicator Type	Nutech
MII	A10117
Date	July 22, 2016
Calibrated By	David Utley
Signature	<i>D. Utley</i>
Reviewed and Accepted By	<i>Angela Nolan</i>

Fluke Calibrator Output (COE 20024) (°C)	Tredicator Display Value		Percent Difference (%)
	Before Adjustment (°C)	After Adjustment (°C)	
0	0	JA	0.0
10	10		0.0
20	20		0.0
50	50		0.0
75	75		0.0
100	100		0.0
125	124		0.8
150	149		0.7
200	200		0.0
300	300		0.0
400	400		0.0
500	500		0.0
600	600	V	0.0

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

Acceptance Criteria:

Trendicator display must read within $\pm 1.5\%$ 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	July 22, 2016
Barometric Pressure	29.47
System Leak Check	<0.01 lpm @ 24 "Hg

MII NUMBERS	
DCM	COE 20018
Gasometer	A01463
Barometer	COE 20028

Calibrated By	David Utley
Signature	
Reviewed and Accepted By	

ft³ = cm³ * 1.352 litres per cm³ / 28.3168 litres per ft³

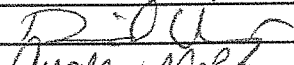
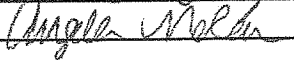
$DCMCF = \frac{V_{std} \text{ ft}^3}{V_{dgm} \text{ ft}^3} \times \frac{T_{dgm} \text{ } ^\circ\text{F} + 460}{T_{std} \text{ } ^\circ\text{F} + 460} \times \frac{P_{bar} \text{ (in. Hg)}}{(P_{bar} \text{ in. Hg} + DGM \text{ Pressure}) / 13.6}$

Gasometer Reading		Gasometer Volume ft ³	Gasometer Temperature °C	DGM Reading		DGM Volume ft ³	DGM Average Temperature °C	DGM Pressure in. H ₂ O	DGM Outlet °C	DGM Calibration Factor	Time min.	Flow Rate lpm
Initial	Final			Initial	Final							
80.80	66.20	14.60	23.0	83.41	103.24	0.700	26.0	1.4	26.0	0.987	20	1.0
66.20	51.70	14.50	24.0	3.24	22.61	0.684	27.0	1.4	27.0	1.004	20	1.0
51.70	36.50	15.20	24.0	22.61	43.13	0.725	28.0	1.4	28.0	0.996	21	1.0

DCMCF AVERAGE
 1 Lpm 0.996

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)

ORTECH Environmental Trendicator Calibration

Calibration Procedure	03-J005
Trendicator Type	Jenco 765
MII	COE 20018
Date	July 22, 2016
Calibrated By	David Utley
Signature	
Reviewed and Accepted By	

Fluke Calibrator Output (COE 20024) (°C)	Trendicator Display Value		Percent Difference (%)
	Before Adjustment (°C)	After Adjustment (°C)	
0	0	JA	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	199		0.5
300	300		0.0
400	400		0.0
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)

APPENDIX 4

**Mercury Analytical Report
(1 page)**

APPENDIX 5

Clean Harbors Process Data (12 pages)

TEST 1		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	9:51:00	28.395	9.465	168.9075	161.685	4.69	281.4	14.4375	22670.21	9966.332	87646	1375.5	993.2	481.4	187.5	189.1
7/20/2016	9:52:00	28.185	9.735	168.6712	162.585	4.31	258.6	13.425	23112.61	10067.46	88495	1370.375	989.3	483.2	187.5	189.1
7/20/2016	9:53:00	28.32	9.965	168.5363	163.44	4.3075	258.45	14.5125	22939.8	9960.714	88348	1370.75	989.7	482.6	188	189.1
7/20/2016	9:54:00	28.29	9.795	168.9075	162.27	4.2775	256.65	14.5125	22932.89	10179.82	88262	1366.25	992.1	484	188	189.1
7/20/2016	9:55:00	28.485	9.675	167.9175	162.9	4.31375	258.825	14.5125	22760.08	10044.98	87699	1369	992.5	483.2	188	189.1
7/20/2016	9:56:00	28.395	9.68	169.6162	163.035	4.3175	259.05	14.5125	22849.94	10162.96	89239	1367.625	990.9	483.6	188	189.1
7/20/2016	9:57:00	28.545	9.78	168.2438	163.035	4.315	258.9	14.5125	22497.4	10022.51	87501	1373.875	991.7	483	188	189.1
7/20/2016	9:58:00	28.35	9.595	168.8175	162.585	4.31625	258.975	14.5125	22670.21	10022.51	87903	1374.25	991.5	483.5	188	189.1
7/20/2016	9:59:00	28.23	9.91	168.6263	163.8	4.68	280.8	14.5125	22670.21	10022.51	86408	1380	991.5	482.2	187.5	189.1
7/20/2016	10:00:00	28.635	9.705	169.4812	163.845	4.31625	258.975	14.5125	22932.89	10022.51	88983	1374	992.6	483.7	188	189.1
7/20/2016	10:01:00	28.2	9.46	168.2438	163.305	4.325	259.5	14.5125	22849.94	10022.51	87768	1377.5	992.8	483	187.5	189.1
7/20/2016	10:02:00	28.41	9.645	169.29	162.765	4.31625	258.975	14.4375	22849.94	10050.6	88396	1372.75	995.9	484.4	188	189.1
7/20/2016	10:03:00	28.155	9.825	167.0175	161.685	4.32125	259.275	14.4375	22670.21	9938.242	87035	1379.75	994.5	483.7	188	189.1
7/20/2016	10:04:00	28.245	9.83	168.2438	161.1	4.29375	257.625	14.4375	22932.89	10039.37	87829	1377.75	994.7	484.7	188	189.1
7/20/2016	10:05:00	28.335	9.545	167.2987	161.64	4.30625	258.375	14.4375	22753.16	9927.006	92403	1381	994.7	484.1	188	189.1
7/20/2016	10:06:00	28.17	9.645	168.3	161.775	4.685	281.1	13.9875	22670.21	10033.75	87698	1380.75	996.5	485.1	188.5	189.1
7/20/2016	10:07:00	28.425	9.435	168.3	161.775	4.33	259.8	13.9875	22753.16	9910.152	93196	1386.625	996	483.6	188.5	189.1
7/20/2016	10:08:00	28.185	9.57	168.6712	162.54	4.3125	258.75	13.9875	22849.94	10022.51	89757	1379.75	995.4	485.3	188.5	189.1
7/20/2016	10:09:00	28.665	9.6	166.3537	161.235	4.3075	258.45	13.9875	23202.47	10022.51	93561	1382.375	996.2	484.6	188.5	189.1
7/20/2016	10:10:00	28.35	9.54	169.245	162.54	4.66875	280.125	13.9875	22932.89	10044.98	88724	1374.875	993.6	485.6	189	189.1
7/20/2016	10:11:00	28.185	9.615	168.7163	161.415	4.6825	280.95	13.9875	23202.47	10044.98	95203	1380.75	995	483.7	189	190.2
7/20/2016	10:12:00	28.065	9.3	168.345	162.54	4.3075	258.45	13.9875	22932.89	10044.98	88556	1374.75	995.1	484.4	189	190.2
7/20/2016	10:13:00	28.29	9.38	167.4	161.415	4.7	282	13.9875	23202.47	10044.98	93764	1384.5	995.6	482.7	189	189.1
7/20/2016	10:14:00	28.44	9.515	168.9525	161.37	4.31875	259.125	13.9875	22760.08	10044.98	86535	1382.125	993.1	482.8	189	189.1
7/20/2016	10:15:00	28.215	9.36	167.8725	160.605	4.315	258.9	13.9875	23285.42	10067.46	93299	1385.75	993.8	481.9	188.5	190.3
7/20/2016	10:16:00	28.305	9.835	169.5712	161.91	4.305	258.3	13.9875	22760.08	10067.46	87936	1382.5	992.4	483.8	189	189.2
7/20/2016	10:17:00	28.005	9.505	168.5363	162.27	4.31	258.6	13.9875	23195.56	10078.69	92146	1382	994.4	483.5	189	190.3
7/20/2016	10:18:00	28.305	9.59	169.0087	162.9	4.31125	258.675	13.9875	22670.21	9960.714	88463	1380.25	993.8	485.6	189.5	190.3
7/20/2016	10:19:00	28.305	9.69	168.9525	155.295	4.6875	281.25	13.9875	23285.42	10084.31	92282	1381.25	992.5	485.6	189.5	190.3
7/20/2016	10:20:00	28.425	9.65	168.6263	145.8	4.69125	281.475	13.9875	22849.94	9960.714	87641	1386.375	992.5	485.9	190	190.3
7/20/2016	10:21:00	28.53	9.625	168.6712	144.63	4.29625	257.775	13.9875	23202.47	10000.04	89136	1385.5	993.4	484	189.5	190.3
7/20/2016	10:22:00	28.2	9.58	168.48	145.215	4.675	280.5	13.9875	22587.26	10000.04	87209	1388	993.6	482.9	189.5	190.2
7/20/2016	10:23:00	28.605	9.695	168.0075	143.37	4.31	258.6	13.9875	23195.56	10028.13	89641	1391.625	993.2	481.2	188.5	190.2
7/20/2016	10:24:00	28.455	9.66	169.0087	144.675	4.3225	259.35	13.9875	22849.94	9915.77	88559	1389.5	996.7	482.9	189	190.2
7/20/2016	10:25:00	28.44	9.54	167.2987	143.46	4.30875	258.525	13.9875	23382.2	10028.13	91867	1389.25	994.5	482.6	189	190.1
7/20/2016	10:26:00	28.38	9.65	167.6813	145.17	4.68375	281.025	13.9875	22843.02	10016.89	87741	1386.25	995.5	483.1	189	190.1
7/20/2016	10:27:00	28.44	9.54	168.345	144.045	4.315	258.9	13.9875	23112.61	10016.89	88829	1384.875	995	482.6	189	190.1
7/20/2016	10:28:00	28.275	9.59	168.3	144.72	4.3125	258.75	13.9875	22760.08	9915.77	87516	1389.5	994.5	482.7	189	190.1
7/20/2016	10:29:00	27.915	9.43	168.7725	142.92	4.3225	259.35	13.9875	23112.61	10044.98	87004	1389.75	992.7	482.3	188.5	190.1
7/20/2016	10:30:00	28.185	9.64	168.7725	144.045	4.295	257.7	13.9875	22587.26	9921.388	86802	1394.625	995.8	481.8	189	190.1
7/20/2016	10:31:00	28.56	9.735	168.1987	142.785	4.6875	281.25	13.9875	23188.65	10044.98	89272	1388.5	994.4	482.3	188.5	190.1
7/20/2016	10:32:00	28.08	9.345	167.6362	143.325	4.69125	281.475	13.9875	22843.02	9938.242	88227	1385.75	993.7	483.2	189	190.1
7/20/2016	10:33:00	28.62	9.405	169.245	142.695	4.31	258.6	13.9875	23382.2	10073.07	88584	1392.625	995	483.4	189	190.1
7/20/2016	10:34:00	28.635	9.66	168.1538	143.37	4.29375	257.625	13.9875	22836.11	9966.332	87221	1393.875	992.7	483.5	190.5	190.1
7/20/2016	10:35:00	28.59	9.635	167.7262	143.91	4.6875	281.25	13.9875	22932.89	9966.332	87975	1392.25	993.9	483.4	189.5	190.1
7/20/2016	10:36:00	28.425	9.835	169.0537	145.08	4.31625	258.975	13.9875	22760.08	9966.332	87631	1395.5	992.8	483.1	189.5	190.1
7/20/2016	10:37:00	28.425	9.58	168.3	143.955	4.31625	258.975	13.9875	22932.89	9966.332	87664	1392	994.6	483.8	189	190.1
7/20/2016	10:38:00	28.17	9.825	168.8625	145.35	4.30375	258.225	13.9875	22490.49	9966.332	86337	1393.625	993.6	482.6	189	190.1
7/20/2016	10:39:00	28.515	9.675	168.1987	144.18	4.6925	281.55	13.9875	22932.89	10078.69	88298	1389	994.2	483.1	188.5	190.1
7/20/2016	10:40:00	28.335	9.59	166.7813	144.9	4.30375	258.225	13.9875	22670.21	10078.69	86830	1389.375	992.2	483.4	189	190.1
7/20/2016	10:41:00	28.335	9.28	169.0988	142.38	4.305	258.3	13.9875	23195.56	9971.95	88983	1381.125	994	483.1	189	190.1
7/20/2016	10:42:00	28.275	9.63	168.6263	143.01	4.67125	280.275	13.9875	22939.8	9971.95	87527	1382.75	992	482.4	189.5	190.1
7/20/2016	10:43:00	28.185	9.605	168.9525	142.155	4.69	281.4	13.9875	23029.66	10005.66	89214	1378.5	995.7	482.9	189.5	190.1
7/20/2016	10:44:00	28.41	9.86	168.9075	143.37	4.29375	257.625	13.9875	22677.13	9904.534	87584	1380.375	994.1	481.8	189.5	190.1
7/20/2016	10:45:00	28.365	9.325	167.8725	142.785	4.3075	258.45	13.9875	22932.89	10022.51	87319	1376.5	995.1	482.6	189.5	190.1
7/20/2016	10:46:00	28.53	9.5	169.0087	143.91	4.31125	258.675	13.9875	22939.8	9910.152	86957	1384.625	993.9	480.6	189.5	190.1
7/20/2016	10:47:00	27.99	9.895	167.8725	143.91	4.3125	258.75	13.9875	23285.42	10044.98	89766	1379.25	993.6	482.5	189.5	190.1
7/20/2016	10:48:00	28.305	9.795	167.2538	145.125	4.3075	258.45	13.9875	22849.94	10044.98	87532	1377.625	995.4	481.8	189.5	190.1
7/20/2016	10:49:00	28.41	9.765	169.0537	143.955	4.30375	258.225	13.9875	23029.66	10044.98	88495	1372.625	994.1	483.3	189.5	190.1
7/20/2016	10:50:00	28.365	9.835	167.2987	145.665	4.3525	261.15	13.9875	22677.13	9943.86	87700	1376.75	995	482.9	189.5	191.3
7/20/2016	10:51:00	28.17	9.885	169.5263	144.585	4.2925	257.55	13.9875	22760.08							

TEST 1		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
		mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
Date	Time	PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	9:51:00	-0.7	-22.8	-53.2875	364.625	21.7	84.16	7.86	40.06	11.5	9	1.26	826.3	22.9775
7/20/2016	9:52:00	-9	-31.75	-65.55	335.125	21.6	84.13	7.88	40.06	10.9	8.91	1.3	833.8	22.2625
7/20/2016	9:53:00	-5.65	-29.05	-60.1875	347	20.8	82.56	7.82	40.06	11.5	8.94	1.3	829.6	22.21375
7/20/2016	9:54:00	-7.3	-31.8	-64.2375	336.0625	21	82.92	7.82	40.06	11.1	9.03	1.42	828.1	22.44125
7/20/2016	9:55:00	-6	-30.2	-60.7125	348.1875	21.3	83.44	7.79	40.06	11.9	9.11	1.48	815.2	22.96125
7/20/2016	9:56:00	-6.55	-30.25	-61.275	327.4375	20.6	84.01	7.8	40.06	11	9.09	1.38	817.7	22.8475
7/20/2016	9:57:00	-5.55	-30.4	-57.6375	338.75	20.8	82.51	7.7	40.06	12	9.14	1.48	808.2	22.31125
7/20/2016	9:58:00	-5.55	-29.35	-57.2625	356.6875	22.2	83.72	7.83	40.06	11.6	9.07	1.16	822.6	22.99375
7/20/2016	9:59:00	-2.95	-26.7	-52.3125	365.9375	22.1	84.07	7.91	40.06	11.7	8.93	1.26	832	22.24625
7/20/2016	10:00:00	-10.05	-32.4	-63.9375	336.0625	22.5	82.5	7.99	40.06	10.9	8.84	1.28	844.5	22.76625
7/20/2016	10:01:00	-7.5	-29.55	-64.8	319.375	22.2	81.54	7.94	40.06	11.4	8.85	1.33	839.9	22.236
7/20/2016	10:02:00	-8.65	-31.7	-62.775	341.375	21.1	80.93	7.86	40.06	10.8	8.98	1.46	827.1	22.89625
7/20/2016	10:03:00	-5.5	-28	-73.5375	288.4375	21.2	82.04	7.83	40.06	11.8	9.01	1.45	818.5	22.89625
7/20/2016	10:04:00	-6.6	-29.8	-59.625	332.9375	21	83.25	7.82	40.06	11	8.91	1.41	821.2	22.76625
7/20/2016	10:05:00	-20.3	-52.55	-85.8	271	20.5	82.15	7.8	40.06	11.4	9	1.46	818.2	22.92875
7/20/2016	10:06:00	-5.6	-26.6	-55.95	360.5625	20.2	82.15	7.85	40.06	10.9	9.08	1.16	824.2	22.3925
7/20/2016	10:07:00	-25.05	-52.75	-88.3875	261.5	19.9	83.58	7.95	40.06	11.4	8.85	1.21	838.4	22.86375
7/20/2016	10:08:00	-10.2	-33.3	-64.125	338.0625	20.4	83.57	7.97	40.06	10.7	8.81	1.3	843.9	23.02625
7/20/2016	10:09:00	-30.35	-55.9	-91.2	261.6875	20.7	82.77	7.91	40.06	11.3	8.92	1.36	836.7	22.76625
7/20/2016	10:10:00	-9.25	-31.4	-63.75	337.875	20	82.82	7.83	40.06	11	9.07	1.42	820.1	22.425
7/20/2016	10:11:00	-27.1	-53.15	-89.4	260.9375	20.5	83.42	7.78	40.06	11.3	9.1	1.46	814.3	22.99375
7/20/2016	10:12:00	-7.8	-30.6	-60.9	328.875	21.4	84.32	7.75	40.06	11	9.16	1.41	808.8	22.945
7/20/2016	10:13:00	-28.8	-57.3	-92.7375	267.125	20.7	83.49	7.72	40.06	12	9.23	1.45	806.7	22.99375
7/20/2016	10:14:00	-4.2	-24.5	-55.725	357.6875	22.4	83.41	7.81	40.06	11.3	9.14	1.32	818.8	22.7825
7/20/2016	10:15:00	-31.4	-59.3	-94.8375	258.5625	22.7	83.82	7.92	40.06	11.8	9.01	1.38	826.3	22.57125
7/20/2016	10:16:00	-9.6	-33.05	-64.5375	337.625	22.6	82.58	7.94	40.06	11.3	8.97	1.26	831.8	22.40875
7/20/2016	10:17:00	-29.9	-55.5	-91.3125	263.8125	22.5	81.35	7.84	40.06	11.9	9.01	1.42	828.7	22.23
7/20/2016	10:18:00	-9.05	-31.6	-62.85	338.3125	22.5	81.63	7.79	40.06	11.3	9.02	1.45	822.4	22.295
7/20/2016	10:19:00	-24.6	-46.6	-86.175	286.9375	22.7	82.65	7.76	40.06	11.7	9.06	1.46	813.7	22.24625
7/20/2016	10:20:00	-6.3	-29.7	-60.15	331.375	22.5	82.45	7.76	40.06	11.7	9.1	1.45	812.7	22.21375
7/20/2016	10:21:00	-12.4	-35.45	-69	335.5	22.5	81.69	7.74	40.06	12	9.16	1.46	807.2	22.27875
7/20/2016	10:22:00	-3.95	-23.7	-55.3125	358.9375	22.2	82.07	7.89	40.06	11.3	8.98	1.28	825.9	22.1325
7/20/2016	10:23:00	-16.75	-41.55	-76.0125	316.875	22.2	81.91	7.95	40.06	11.8	8.9	1.45	835.8	22.295
7/20/2016	10:24:00	-9.2	-33.65	-61.2375	341.625	24.1	80.67	7.95	40.06	11	8.85	1.27	844.9	22.24625
7/20/2016	10:25:00	-27.2	-53.25	-90.2625	282.9375	22.2	79.17	7.87	40.06	11.7	8.95	1.42	839.5	22.50625
7/20/2016	10:26:00	-7.35	-30.6	-60.9375	342.6875	22.8	79.09	7.87	40.06	11.2	8.98	1.41	827.2	22.37625
7/20/2016	10:27:00	-11.7	-36.95	-69.0375	316.375	22.8	81.23	7.87	40.06	11.4	8.99	1.38	821.5	22.89625
7/20/2016	10:28:00	-6.35	-28.8	-58.65	333.25	21.4	80.66	7.79	40.06	11.3	9.05	1.42	817.9	22.685
7/20/2016	10:29:00	-8.3	-31.7	-63.6	349.75	22.8	78.94	7.73	40.06	11.9	9.12	1.32	817.9	22.9775
7/20/2016	10:30:00	-2.55	-23.85	-53.6625	361.75	24.4	80.16	7.91	40.06	11.5	8.99	1.16	828.9	22.76625
7/20/2016	10:31:00	-14.75	-39.25	-68.775	325.1875	24.3	80.44	8.01	40.06	11.7	8.87	1.45	839.5	22.23
7/20/2016	10:32:00	-8.65	-33.05	-61.5375	341.375	24.9	78.49	7.96	40.06	11	8.79	1.3	846	22.96125
7/20/2016	10:33:00	-11.6	-36.35	-68.2125	333.1875	23.4	78.12	7.9	40.06	11.4	8.87	1.45	840	22.23
7/20/2016	10:34:00	-6.85	-30.9	-60.375	347.0625	22.1	80.02	7.85	40.06	11.5	8.98	1.42	824.7	22.165
7/20/2016	10:35:00	-9.6	-32.35	-65.0625	325.125	23.9	81.37	7.88	40.06	11.7	8.92	1.38	826.2	22.76625
7/20/2016	10:36:00	-4.25	-26.9	-56.475	338.3125	24.5	79.88	7.82	40.06	11.7	8.91	1.46	828.6	22.1975
7/20/2016	10:37:00	-6.6	-28.95	-59.9625	353.4375	24.4	78.68	7.88	40.06	11.8	9.05	1.23	837.9	22.75
7/20/2016	10:38:00	-1.3	-24.1	-53.1	362.0625	23.4	79.74	7.97	40.06	11.7	8.81	1.17	845.3	22.96125
7/20/2016	10:39:00	-13.35	-37.45	-71.8125	328.25	24	78.57	8	40.06	11.7	8.72	1.35	853.6	22.555
7/20/2016	10:40:00	-6.9	-30.5	-60.6	342.5625	24.4	77.04	7.98	40.06	11.2	8.76	1.26	855	22.23
7/20/2016	10:41:00	-12.25	-35.75	-68.2875	330.75	22	76	7.87	40.06	11.3	8.92	1.36	842.1	22.27875
7/20/2016	10:42:00	-7.05	-30.55	-56.3625	343.5625	21.2	76.67	7.85	40.06	11.4	8.99	1.45	830	22.47375
7/20/2016	10:43:00	-10.65	-37	-64.575	320.8125	21.1	79.56	7.83	40.06	11.3	9.02	1.36	826.5	22.9125
7/20/2016	10:44:00	-3.75	-27.8	-56.925	335.125	20.3	78.71	7.73	40.06	11.5	9.17	1.42	816.3	22.685
7/20/2016	10:45:00	-7.4	-30.25	-56.85	349.625	20.9	78.72	7.71	40.06	11.3	9.24	1.23	812.6	22.23
7/20/2016	10:46:00	-2.65	-24.7	-49.65	364.5	21.3	81.6	7.91	40.06	11.9	9.02	1.17	831.3	22.40875
7/20/2016	10:47:00	-10.45	-36.1	-61.35	328.9375	21.6	81.79	7.95	40.06	11.6	8.97	1.26	833.9	22.23
7/20/2016	10:48:00	-7.35	-29.45	-58.6875	343.0625	22.9	80.31	7.91	40.06	11.7	8.88	1.32	837.1	22.7825
7/20/2016	10:49:00	-9.4	-33.1	-66.675	331.6875	21.3	80.25	7.84	40.06	11.3	8.97	1.41	835	22.1975
7/20/2016	10:50:00	-5.2	-29.85	-52.7625	344.5	21.3	80.91	7.8	40.06	11.9	9.02	1.48	828.4	22.3925
7/20/2016	10:51:00	-7	-31.05	-61.3125	324.4375	21.6	83.03	7.78	40.06	11.1	8.91	1.41	830	22.40875
Average		-10.49	-34.30	-65.61	328.74	22.04	81.37	7.86	40.06	11.44	8.99	1.36	828.15	22.56

July 20, 2016

Test#1	Pressures				Analyzers								Flows
	Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow
	PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT
Max	-0.7	-22.8	-49.7	365.9	24.9	84.3	8.0	40.1	12.0	9.2	1.5	855.0	23.0
Min	-31.4	-59.3	-94.8	258.6	19.9	76.0	7.7	40.1	10.7	8.7	1.2	806.7	22.1
Average	-10.5	-34.3	-65.6	328.7	22.0	81.4	7.9	40.1	11.4	9.0	1.4	828.1	22.6
Variance	59.7832	83.95979	132.5637	841.0453	1.632459	4.173335	0.006201	1.85E-27	0.113792	0.012825	0.009112	130.1442	0.0899235

TEST 2		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	11:06:00	28.23	9.73	168.0525	143.685	4.29375	257.625	13.9875	23029.66	9870.826	92344	1373	996.7	488.2	190	191.2
7/20/2016	11:07:00	28.26	9.595	169.29	144.225	4.2925	257.55	13.9875	22677.13	9971.95	86510	1369.625	997.2	489.9	190.5	191.2
7/20/2016	11:08:00	28.17	9.435	167.9625	144.18	4.305	258.3	13.9875	22856.85	9859.59	92597	1374.125	998	488.9	190.5	191.2
7/20/2016	11:09:00	28.56	9.575	167.535	144.09	4.295	257.7	13.9875	22497.4	9870.826	87438	1372.75	998.6	490.1	191	191.2
7/20/2016	11:10:00	28.095	10.015	167.7712	144.045	4.29875	257.925	13.9875	22849.94	9870.826	93176	1378.75	998.3	488.6	190.5	191.2
7/20/2016	11:11:00	28.26	10.045	168.5812	145.305	4.31125	258.675	13.9875	22849.94	9994.422	88136	1371.375	996.9	488.6	191	191.2
7/20/2016	11:12:00	28.155	9.645	168.3	144.045	4.52625	271.575	13.9875	23119.52	9971.95	93037	1374.375	999.8	487.3	190.5	191.2
7/20/2016	11:13:00	28.5	9.84	167.2987	144.63	4.295	257.7	13.9875	22670.21	9876.444	87139	1369.75	1000.5	488.4	191	191.2
7/20/2016	11:14:00	28.41	9.65	168.0525	144.63	4.675	280.5	13.9875	23112.61	9876.444	93481	1373.5	999.2	487.3	190.5	192.2
7/20/2016	11:15:00	28.2	10.075	169.1437	145.125	4.31	258.6	13.9875	22677.13	9865.208	87720	1371.125	1000.4	487.9	191	191.9
7/20/2016	11:16:00	28.575	9.665	167.6362	144.225	4.69125	281.475	13.9875	23112.61	9988.804	92848	1371.875	999.5	487.4	190.5	190.8
7/20/2016	11:17:00	28.245	9.54	168.1987	144.09	4.68375	281.025	13.9875	22234.72	9887.68	86328	1373.875	999.6	487.9	190.5	190.8
7/20/2016	11:18:00	28.53	9.485	169.9537	144.09	4.67625	280.575	13.9875	23292.34	9988.804	92824	1376.125	999.6	487.4	190.5	190.8
7/20/2016	11:19:00	28.35	9.79	167.3438	144.585	4.67	280.2	13.9875	22766.99	9882.062	88429	1372.375	1001.6	489.6	191	191.9
7/20/2016	11:20:00	28.2	9.53	167.6362	143.865	4.6725	280.35	13.9875	23382.2	10000.04	92925	1370.375	1000.9	490.3	191.5	191.9
7/20/2016	11:21:00	28.44	9.845	169.4812	144.495	4.68125	280.875	13.9875	22856.85	9887.68	87773	1366.75	1002.9	491.7	192	191.9
7/20/2016	11:22:00	28.29	9.53	167.58	143.28	4.69375	281.625	13.9875	23112.61	9887.68	88856	1367.625	999.8	491.7	192	193
7/20/2016	11:23:00	28.44	9.81	169.29	145.35	4.68875	281.325	13.9875	22587.26	9769.702	86848	1371.25	1000.3	492.5	192.5	191.8
7/20/2016	11:24:00	28.2	9.81	168.9075	144.135	4.2925	257.55	13.9875	22939.8	9994.422	86742	1371.375	1002.4	491.1	192	191.8
7/20/2016	11:25:00	28.515	9.75	170.7075	145.8	4.6675	280.05	13.9875	22497.4	9859.59	86754	1374.125	1002.4	491.4	192	191.8
7/20/2016	11:26:00	28.02	9.67	166.5	144.495	4.3075	258.45	13.9875	23112.61	9859.59	88003	1375.125	1001.5	489	191.5	191.7
7/20/2016	11:27:00	28.335	9.745	168.0525	145.89	4.29625	257.775	13.9875	22587.26	9741.612	86511	1373.875	1002.4	488.2	191.5	191.7
7/20/2016	11:28:00	28.155	9.89	167.8163	144.675	4.69125	281.475	13.9875	22849.94	9943.86	88603	1372.625	1000.8	487.8	191	192.9
7/20/2016	11:29:00	28.245	9.855	169.9088	144.675	4.3175	259.05	13.9875	22677.13	9943.86	86907	1373	1002.8	488	191	191.8
7/20/2016	11:30:00	28.455	9.435	166.9725	144.045	4.69375	281.625	13.9875	23112.61	9949.478	87965	1376.375	1002.3	487.8	191	191.7
7/20/2016	11:31:00	27.945	9.855	167.9175	144.585	4.3125	258.75	13.9875	22587.26	9848.354	86838	1382.125	1004.3	488	191	191.7
7/20/2016	11:32:00	28.155	9.705	168.6263	143.415	4.69	281.4	13.9875	22856.85	9853.972	87429	1380.375	1002.5	487.9	191	191.7
7/20/2016	11:33:00	27.9	9.78	167.445	144.045	4.66125	279.675	13.9875	22497.4	9853.972	86151	1384.5	1003.8	486.9	191	191.7
7/20/2016	11:34:00	28.38	9.575	167.2987	143.415	4.67375	280.425	13.9875	23112.61	9848.354	88432	1383.125	1002.8	486.9	190.5	191.7
7/20/2016	11:35:00	28.41	9.78	168.7725	145.89	4.67125	280.275	13.9875	22677.13	9848.354	87843	1381.5	1001.3	487.6	191	191.7
7/20/2016	11:36:00	28.215	9.915	167.58	144.45	4.69	281.4	13.9875	22939.8	9960.714	88193	1382.25	1002.7	488.3	191	191.7
7/20/2016	11:37:00	28.635	9.985	168.0525	146.16	4.3175	259.05	13.9875	22766.99	9848.354	86630	1384.75	1001.7	487.9	191	192.8
7/20/2016	11:38:00	28.095	9.825	167.9625	144.765	4.7	282	13.9875	22849.94	9870.826	87556	1383.875	999	487.9	191	192.9
7/20/2016	11:39:00	28.305	10.195	168.2438	146.025	4.3175	280.8	13.9875	22497.4	9769.702	85688	1386	1002.8	487.7	191	191.4
7/20/2016	11:40:00	28.02	9.505	169.335	144.9	4.31375	258.825	13.9875	22677.13	9882.062	87202	1383.375	1002.6	487.8	190.5	192.2
7/20/2016	11:41:00	28.14	9.745	169.0988	144.9	4.30625	258.375	13.9875	22324.59	9780.938	85899	1388.625	1002.2	487	190.5	191.2
7/20/2016	11:42:00	28.05	9.53	167.8725	143.46	4.31375	258.825	13.9875	22939.8	9910.152	88107	1381.875	1000.5	488.4	190	191
7/20/2016	11:43:00	28.32	9.555	168.3	144.63	4.29625	257.775	13.9875	22760.08	9809.028	87000	1381.25	1003.6	489.2	191	191
7/20/2016	11:44:00	28.38	9.39	167.9625	143.46	4.6725	280.35	13.9875	22939.8	9910.152	88088	1373.375	1002.3	488.9	191	192.1
7/20/2016	11:45:00	28.335	9.6	168.6712	144.045	4.66625	279.975	13.9875	22587.26	9792.174	86726	1378	1003.1	486.1	191.5	192.1
7/20/2016	11:46:00	28.335	9.625	168.48	143.46	4.67375	280.425	13.9875	22587.26	9797.792	88321	1378.75	1001.5	485.5	191	192.1
7/20/2016	11:47:00	28.29	9.79	169.8525	146.16	4.315	258.9	13.9875	22407.54	9797.792	86194	1380.75	1001.6	485	191	192.1
7/20/2016	11:48:00	28.29	9.935	168.8175	145.395	4.315	258.9	13.9875	22587.26	9797.792	87494	1378	1002.3	485.8	190.5	191.1
7/20/2016	11:49:00	28.38	9.95	167.8163	146.025	4.68625	281.175	13.9875	22497.4	9797.792	86473	1383.625	1003.2	484.3	190	191.2
7/20/2016	11:50:00	28.32	10.025	169.7175	145.575	4.315	258.9	13.9875	22849.94	9803.41	87900	1377.5	1003.4	486.2	190	191.2
7/20/2016	11:51:00	28.29	10.03	167.8163	146.115	4.67	280.2	13.9875	22677.13	9803.41	88270	1380.25	1002.1	486.9	190	191.3
7/20/2016	11:52:00	28.17	9.495	168.6712	144.945	4.65875	279.525	13.9875	22760.08	9837.118	88340	1374.375	1000.8	487.5	190	191.3
7/20/2016	11:53:00	28.275	9.76	166.545	144.945	4.67625	280.575	13.9875	22760.08	9707.904	87007	1374.5	1003.2	486.7	190	191.3
7/20/2016	11:54:00	28.44	9.35	168.39	143.28	4.67125	280.275	13.9875	22587.26	9893.298	87648	1371.75	998.8	488.5	190	192.4
7/20/2016	11:55:00	28.38	9.49	169.5263	145.26	4.67875	280.725	13.9875	22760.08	9792.174	86828	1376.25	999.7	487.6	190.5	191
7/20/2016	11:56:00	28.2	9.565	169.2	144.765	4.67125	280.275	13.9875	22766.99	9792.174	86281	1375.625	1001.6	488.1	190.5	191
7/20/2016	11:57:00	28.05	9.485	167.9625	144.765	4.67875	280.725	13.9875	22407.54	9792.174	85356	1380.875	1003.3	486.8	190	191
7/20/2016	11:58:00	28.29	9.67	170.4713	144.225	4.69125	281.475	13.9875	22856.85	9780.938	87737	1376	1001.6	488.2	190.5	191
7/20/2016	11:59:00	27.99	9.69	166.9725	146.07	4.69375	281.625	13.9875	22677.13	9780.938	86485	1377.625	1001.8	488	190.5	192.1
7/20/2016	12:00:00	28.29	9.77	170.1	145.98	4.3175	259.05	13.9875	22677.13	9775.32	88216	1372	1002.5	488.1	190.5	192.1
7/20/2016	12:01:00	28.53	9.55	167.2987	146.61	4.3125	258.75	13.9875	22497.4	9876.444	89631	1378.125	1001.4	486.8	190.5	192.1
7/20/2016	12:02:00	27.945	9.92	169.0988	145.98	4.67125	280.275	13.9875	22580.35	9876.444	87136	1375.375	1001.1	488.1	190.5	192.1
7/20/2016	12:03:00	28.275	9.765	166.635	145.89	4.67	280.2	13.9875	22587.26	9764.084	93199	1382.375	1002.4	487.3	190	192.1
7/20/2016	12:04:00	28.125	9.835	168.6263	145.53	4.67625	280.575	13.9875	22504.31	9780.938	86019	1381.75	1003.3	487.8	190	191.1
7/20/2016	12:05:00	28.035	9.45	169.0988	144.405	4.6625	279.75	13.9875	22684.04	9775.32	92973	1385.875	1002.3	485	189.5	191.1
7/20/2016	12:06:00	28.155	9.815	167.4												

TEST 2		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
		mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
Date	Time	PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	11:06:00	-19.75	-48.65	-64.35	269.75	18.7	85.11	7.99	40.06	11.4	8.84	1.48	847.6	22.40875
7/20/2016	11:07:00	-5.3	-27.1	-55.875	333.25	18.7	86.46	7.92	40.06	10.6	8.77	1.46	847.6	22.79875
7/20/2016	11:08:00	-26.15	-52.4	-65.6625	267	19.6	86.33	7.83	40.06	11.5	8.9	1.52	844.2	22.295
7/20/2016	11:09:00	-4.85	-26.25	-48.675	359.75	19.3	87.06	7.9	40.06	11.3	8.97	1.2	850.4	22.86375
7/20/2016	11:10:00	-26.8	-56.05	-69.3	260	19.2	88.79	8.01	40.06	12.1	8.71	1.3	863.6	22.9775
7/20/2016	11:11:00	-7.45	-31.25	-64.0875	335.75	20.5	88.4	8.09	40.06	11	8.67	1.32	872	22.815
7/20/2016	11:12:00	-26.3	-52.5	-80.1	263.9375	20.2	87.9	8.03	40.06	11.7	8.72	1.42	864.5	22.1975
7/20/2016	11:13:00	-7.65	-31.45	-60.975	337.5	19.2	88.6	7.92	40.06	11.3	8.85	1.5	855.9	22.295
7/20/2016	11:14:00	-25.9	-54.3	-74.8875	262.625	19.1	89.71	7.93	40.06	11.6	8.86	1.5	854.6	23.01
7/20/2016	11:15:00	-4.85	-28.85	-57.975	330.4375	18.9	89.73	7.87	40.06	11.4	8.83	1.48	848	22.4575
7/20/2016	11:16:00	-27.65	-56.15	-76.875	294.8125	18.5	89.46	7.81	40.06	12.3	8.96	1.48	845.7	22.53875
7/20/2016	11:17:00	-3.95	-28.8	-55.9875	356.6875	18.9	90.66	7.99	40.06	11.3	8.87	1.36	860.6	22.76625
7/20/2016	11:18:00	-30.65	-59.45	-76.6125	281.4375	19.3	91.27	8.08	40.06	11.6	8.72	1.42	870.3	22.2625
7/20/2016	11:19:00	-7.45	-31.85	-59.5875	337.0625	19	91.22	8.06	40.06	10.7	8.64	1.33	873.3	22.24625
7/20/2016	11:20:00	-28.75	-58	-71.2875	268.5625	17.7	90.41	7.97	40.06	11.2	8.75	1.45	866.3	22.47375
7/20/2016	11:21:00	-6.25	-29.95	-58.1625	339.375	18.5	91.93	7.9	40.06	10.8	8.87	1.46	846.5	22.99375
7/20/2016	11:22:00	-15.05	-36.7	-71.925	304.125	18.5	93.27	7.87	40.06	11	8.87	1.5	841.9	22.249
7/20/2016	11:23:00	-3.7	-26.75	-46.9875	330.375	18	94.52	7.86	40.06	11	8.92	1.5	842.3	22.99375
7/20/2016	11:24:00	-7	-31.4	-64.725	340.5	18.4	94.04	7.86	40.06	11.2	8.95	1.42	844.4	22.34375
7/20/2016	11:25:00	-0.95	-23.65	-53.1	359.25	18.9	95.42	8.01	40.06	11.1	8.77	1.32	866.2	22.555
7/20/2016	11:26:00	-12.75	-38.75	-73.875	324.375	18.9	95.42	8.05	40.06	11.1	8.68	1.46	871.8	22.21375
7/20/2016	11:27:00	-5.7	-30.7	-55.9875	339.75	19.9	94.49	8.07	40.06	11.1	8.55	1.33	883.3	23.02625
7/20/2016	11:28:00	-13.85	-37.8	-76.05	323.8125	19.4	93.72	8.01	40.06	11.4	8.7	1.46	875	22.9775
7/20/2016	11:29:00	-6	-30.35	-58.125	343.25	18.9	93.77	8.01	40.06	11.2	8.75	1.48	865.6	22.96125
7/20/2016	11:30:00	-9.4	-34.75	-66.4125	318.125	19.5	95.02	7.98	40.06	11.4	8.76	1.5	862.3	22.555
7/20/2016	11:31:00	-3.3	-27.85	-52.8375	334.5625	20.7	94.71	7.91	40.06	10.9	8.82	1.55	858.6	23.01
7/20/2016	11:32:00	-5.85	-30.9	-60.075	350	20.9	92.95	7.86	40.06	11.5	8.94	1.32	851.3	22.5225
7/20/2016	11:33:00	-0.25	-23.15	-57.675	361.25	21	93.86	8.08	40.06	11.2	8.76	1.23	869.8	22.86375
7/20/2016	11:34:00	-9.3	-33.55	-71.5125	324.125	22.2	93.44	8.13	40.06	11.3	8.68	1.46	877.4	22.9775
7/20/2016	11:35:00	-5.2	-30.25	-54.7125	339.8125	22.1	91.44	8.09	40.06	11	8.55	1.32	877.7	22.92875
7/20/2016	11:36:00	-9.15	-34.6	-69.9	334.375	21.1	90.39	8.05	40.06	11.2	8.63	1.42	872.7	22.9125
7/20/2016	11:37:00	-2.75	-25.15	-53.1375	347.375	21.5	89.1	7.99	40.06	11.7	8.74	1.5	863.3	22.79875
7/20/2016	11:38:00	-6.9	-31.15	-55.3125	326.875	22.3	90.46	7.97	40.06	11.4	8.71	1.42	863.3	22.5225
7/20/2016	11:39:00	-2.4	-25.2	-48.075	338.5	22.4	90.71	7.93	40.06	12	8.73	1.5	861	22.21375
7/20/2016	11:40:00	-5.7	-31.45	-63.9	354.1875	22.3	88.75	7.99	40.06	11.4	8.83	1.26	866.8	22.2625
7/20/2016	11:41:00	-0.65	-24.1	-47.1	363.4375	23.5	89.31	8.07	40.06	11.3	8.6	1.21	878.9	23.0425
7/20/2016	11:42:00	-11.35	-37.45	-65.4375	330.375	24.3	89.45	8.14	40.06	11.1	8.53	1.32	889.9	22.555
7/20/2016	11:43:00	-4.8	-29.35	-49.35	344.5	23.3	87.84	8.13	40.06	11.1	8.54	1.28	886.8	22.88
7/20/2016	11:44:00	-12.2	-37.6	-64.8	329.9375	20.3	85.98	8.02	40.06	11	8.75	1.4	872.2	22.96125
7/20/2016	11:45:00	-5.1	-28.75	-58.575	342.75	20.2	88.16	7.9	40.06	11.5	8.94	1.45	852.4	22.40875
7/20/2016	11:46:00	-7.75	-33.15	-61.5	320.6875	19.8	89.59	7.89	40.06	11.1	8.93	1.41	852.4	22.23
7/20/2016	11:47:00	-3.4	-27.4	-53.7375	334.6875	20.3	88.65	7.83	40.06	11.8	9	1.48	849	23.02625
7/20/2016	11:48:00	-3.8	-26.7	-54.1125	350.5625	20.5	88.05	7.81	40.06	11.6	9.04	1.26	847.3	22.83125
7/20/2016	11:49:00	-2.15	-24.55	-45.1125	360.25	21.3	89.6	8	40.06	12.3	8.77	1.16	870.4	22.96125
7/20/2016	11:50:00	-8.55	-31.55	-63.525	329.625	23.6	88.15	8.06	40.06	10.9	8.63	1.26	879.1	22.24625
7/20/2016	11:51:00	-6.15	-30.65	-52.05	342.9375	23.2	86.8	8.05	40.06	11.5	8.64	1.33	879.1	22.8475
7/20/2016	11:52:00	-9.15	-33.95	-56.775	332.6875	20.7	86.48	7.95	40.06	11.2	8.81	1.38	866.3	22.27875
7/20/2016	11:53:00	-6.5	-31.3	-54.2625	344.625	20.7	86.86	7.91	40.06	11	8.86	1.46	856.3	22.79875
7/20/2016	11:54:00	-6.55	-30.25	-67.725	324.4375	19.2	88.29	7.88	40.06	10.6	8.82	1.42	849.6	22.5225
7/20/2016	11:55:00	-2.4	-25.35	-57.3375	337	18.8	88.82	7.84	40.06	11.1	8.93	1.48	843.5	22.3925
7/20/2016	11:56:00	-4.05	-27.65	-63.525	352.875	20.1	89.58	7.86	40.06	11	9.04	1.16	852.7	22.4575
7/20/2016	11:57:00	-0.3	-20.95	-56.4375	363.1875	21.5	90.5	8.03	40.06	11.8	8.77	1.21	872.3	22.6525
7/20/2016	11:58:00	-7.45	-33.85	-63.225	333.3125	21.9	90.14	8.06	40.06	10.7	8.66	1.25	882.3	22.2625
7/20/2016	11:59:00	-4.7	-30.1	-57.45	316.5625	21.7	88.2	8.03	40.06	11.6	8.7	1.3	877.4	22.249
7/20/2016	12:00:00	-6.75	-29.9	-59.2125	335.75	22.1	88.33	8.02	40.06	10.9	8.79	1.42	877.4	22.70125
7/20/2016	12:01:00	-10.55	-41.25	-52.4625	286.375	21.2	89.85	7.95	40.06	12	8.89	1.46	865.7	22.40875
7/20/2016	12:02:00	-5.05	-28.5	-53.7375	326.625	21.6	89.79	7.92	40.06	10.8	8.87	1.45	861.7	22.5875
7/20/2016	12:03:00	-21.55	-51.1	-66.6375	281.875	21.6	88.68	7.88	40.06	12.3	8.91	1.48	858.8	22.49
7/20/2016	12:04:00	-2	-25.45	-58.8	354.875	21.9	89.31	8.04	40.06	11.3	8.82	1.16	873.3	22.23
7/20/2016	12:05:00	-24.65	-54.5	-65.55	271.3125	21.9	89.96	8.09	40.06	11.6	8.69	1.33	880.7	22.24625
7/20/2016	12:06:00	-7.55	-31.9	-68.025	333.5	20.4	89.19	8.12	40.06	10.7	8.55	1.23	888.5	22.7175
Average		-9.34	-34.17	-60.84	326.84	20.46	90.07	7.98	40.06	11.31	8.78	1.38	863.77	22.62

July 20, 2016

Test#	Pressures				Analyzers									Flows
	Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow	
	PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT	
Max	-0.3	-21.0	-45.1	363.4	24.3	95.4	8.1	40.1	12.3	9.0	1.6	889.9	23.0	
Min	-30.7	-59.5	-80.1	260.0	17.7	85.1	7.8	40.1	10.6	8.5	1.2	841.9	22.2	
Average	-9.3	-34.2	-60.8	326.8	20.5	90.1	8.0	40.1	11.3	8.8	1.4	863.8	22.6	
Variance	65.13784	97.93811	68.77234	803.2456	2.484175	6.661485	0.008219	1.85E-27	0.168623	0.016534	0.011372	171.6102	0.0806611	

TEST 3		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	12:21:00	28.215	9.63	167.2538	143.73	4.3075	258.45	13.9875	23112.61	9904.534	89355	1376.375	1002.6	486.3	189.5	191.1
7/20/2016	12:22:00	28.08	9.585	166.635	144.315	4.6925	280.275	13.9875	22849.94	9786.556	87258	1377	1004.4	487.8	190	191.1
7/20/2016	12:23:00	28.125	9.625	170.19	144.315	4.30125	258.075	13.9875	23119.52	9910.152	91497	1375.375	1006.8	487.7	190	191.1
7/20/2016	12:24:00	28.02	10.065	167.2538	145.485	4.68875	281.325	13.9875	22766.99	9691.05	86168	1373	1003.8	488.6	190.5	191.1
7/20/2016	12:25:00	28.29	9.825	168.8175	144.9	4.68	280.8	13.9875	22849.94	9797.792	88317	1374.375	1005.1	488.4	190	192.4
7/20/2016	12:26:00	28.14	9.935	168.0075	145.44	4.6725	280.35	13.9875	22677.13	9674.196	86402	1375.875	1005.1	489.2	190.5	191
7/20/2016	12:27:00	28.335	9.77	168.435	144.765	4.66625	279.975	13.9875	23119.52	9825.882	87534	1377.375	1004	489.5	190	191
7/20/2016	12:28:00	28.32	9.88	167.2987	145.89	4.68625	281.175	13.9875	22766.99	9707.904	85566	1379.75	1006.1	489.1	190.5	191
7/20/2016	12:29:00	28.23	9.64	167.445	143.505	4.66875	280.125	13.9875	23036.58	9842.736	88285	1380.625	1006.2	489.3	190	191
7/20/2016	12:30:00	28.215	9.93	168.39	144.045	4.2925	257.55	13.9875	22677.13	9735.994	87450	1381.125	1004.8	490	190.5	191
7/20/2016	12:31:00	28.5	9.52	169.4812	143.505	4.6675	280.05	13.9875	23126.44	9825.882	89301	1377.625	1005.4	491.2	190.5	192.1
7/20/2016	12:32:00	28.155	9.76	167.1525	144.045	4.68875	281.925	13.9875	22766.99	9825.882	87094	1380	1004	490.6	191.5	192.1
7/20/2016	12:33:00	28.605	9.69	168.0075	142.83	4.66875	280.125	13.9875	22677.13	9831.5	87283	1376.75	1006	490.6	191.5	192.1
7/20/2016	12:34:00	28.08	9.56	168.435	139.995	4.67125	280.275	13.9875	22497.4	9730.376	85771	1379.125	1003.8	490.6	192	192.1
7/20/2016	12:35:00	27.795	9.84	168.9525	139.275	4.6725	280.35	13.9875	22766.99	9831.5	87631	1378.5	1005.2	491	192	192.1
7/20/2016	12:36:00	28.26	10.22	168.345	140.67	4.68125	280.875	13.9875	22414.45	9730.376	87244	1385.125	1005.5	490.1	192	192.1
7/20/2016	12:37:00	27.105	9.985	168.5363	139.95	4.3075	258.45	13.9875	22856.85	9882.062	87884	1379.25	1007.6	489.4	191.5	192.1
7/20/2016	12:38:00	27.03	9.975	169.5712	140.535	4.69	281.4	15	22324.59	9780.938	87078	1378.125	1006.1	486.9	191	192.1
7/20/2016	12:39:00	27.21	10.06	168.1087	139.635	4.6725	280.35	13.95	23119.52	9780.938	87894	1372.625	1003.3	485.5	190.5	192.1
7/20/2016	12:40:00	27.465	9.925	168.435	140.85	4.295	257.7	14.2125	22766.99	9679.814	86532	1372.875	1005.1	483.5	190	192.1
7/20/2016	12:41:00	27.675	9.92	167.7712	138.645	4.6675	280.05	14.2125	22946.71	9741.612	87449	1372.125	1004.3	482.5	189.5	192.1
7/20/2016	12:42:00	27.39	10.015	168.0075	138.645	4.68125	280.875	14.2125	22760.08	9741.612	86359	1376	1004.7	480.3	189	192.1
7/20/2016	12:43:00	27.315	9.63	169.7175	138.105	4.30125	258.075	14.2125	22677.13	9876.444	87068	1371	1003.7	481.4	189	191.7
7/20/2016	12:44:00	27.285	9.86	166.545	138.69	4.67	280.2	14.2125	22497.4	9775.32	85504	1374.125	1002.1	481.4	188.5	191.7
7/20/2016	12:45:00	27.27	9.745	168.0075	138.15	4.6775	280.65	14.2125	22939.8	9887.68	88724	1366.125	1002.1	482.6	188.5	190.6
7/20/2016	12:46:00	27.375	9.98	170.3812	139.23	4.67625	280.575	14.2125	22587.26	9780.938	85831	1367.375	1001.1	482.5	188.5	190.6
7/20/2016	12:47:00	27.45	9.805	167.49	139.23	4.66875	280.125	14.2125	22849.94	9780.938	88104	1359.5	1000.8	484.4	189	191.8
7/20/2016	12:48:00	27.36	10.175	168.0075	140.535	4.68375	281.025	14.2125	22684.04	9674.196	87143	1366.25	999.2	483.1	189	191.8
7/20/2016	12:49:00	27.105	10	170.9437	139.545	4.685	281.1	14.2125	22587.26	9780.938	87637	1361.875	997.8	483.7	188.5	191.8
7/20/2016	12:50:00	27.33	9.93	168.6712	140.085	4.67875	280.725	14.2125	22587.26	9674.196	86488	1366	1001.2	481.9	188.5	190.6
7/20/2016	12:51:00	26.82	9.955	169.7625	139.455	4.68875	281.325	14.2125	22677.13	9831.5	87623	1365.5	998.1	482.2	188	190.6
7/20/2016	12:52:00	27.24	9.86	169.0087	140.535	4.66625	279.975	14.2125	22497.4	9730.376	85431	1373.375	998.2	481.3	187.5	190.6
7/20/2016	12:53:00	27.345	9.78	169.9088	138.105	4.6775	280.65	14.2125	22677.13	9719.14	89107	1368.375	996.7	476.2	187	190.6
7/20/2016	12:54:00	27.27	9.885	167.1075	138.105	4.67875	280.725	14.2125	22677.13	9719.14	87160	1365.25	999.8	479.6	187	189.6
7/20/2016	12:55:00	27.39	9.65	168.5812	138.105	4.67875	280.725	14.2125	22856.85	9735.994	87591	1363.875	996.4	483.5	187.5	190.7
7/20/2016	12:56:00	27.12	9.67	170.5162	138.69	4.66875	280.125	14.2125	22497.4	9735.994	88059	1366.625	999.5	479.2	187.5	190.7
7/20/2016	12:57:00	27.375	9.9	170.145	138.69	4.67875	280.725	14.2125	22684.04	9735.994	87120	1362.875	997.5	473.8	187	190.7
7/20/2016	12:58:00	27.39	9.615	169.5263	138.6	4.69125	281.475	14.2125	22504.31	9618.016	87463	1369.625	997.3	468.3	185.5	189.6
7/20/2016	12:59:00	27.36	9.965	169.9088	139.725	4.69	281.4	14.2125	22497.4	9623.634	87611	1366.75	999.4	466.5	184.5	189.6
7/20/2016	13:00:00	27.6	10.08	168.435	139.635	4.3175	259.05	14.2125	22497.4	9623.634	91172	1372.375	998.7	464.1	183.5	188.3
7/20/2016	13:01:00	27.375	9.945	169.7175	142.65	4.3175	259.05	14.2125	22677.13	9724.758	89330	1367.25	997.8	465.7	182.5	188.3
7/20/2016	13:02:00	27.435	9.945	169.9088	142.65	4.685	281.1	14.2125	22939.8	9724.758	93998	1367	995.2	472.3	182	188.3
7/20/2016	13:03:00	27.24	10.23	170.4713	142.02	4.6675	280.05	14.2125	22587.26	9752.848	87647	1362.5	998.7	478.8	183	187.3
7/20/2016	13:04:00	27.525	10.005	169.29	142.605	4.67	280.2	14.2125	22766.99	9634.87	93992	1367.625	997.7	480.4	183	188.4
7/20/2016	13:05:00	27.165	9.84	170.6175	140.94	4.68	280.8	14.2125	22766.99	9752.848	87342	1365.125	995.6	483.1	184	188.4
7/20/2016	13:06:00	27.135	9.79	167.7712	140.85	4.68875	281.325	14.2125	22856.85	9646.106	93566	1370.5	996.4	482.1	184	187.2
7/20/2016	13:07:00	27.045	9.8	169.0087	140.985	4.31625	258.975	14.2125	22587.26	9651.724	87587	1366.625	999	482.9	184.5	187.2
7/20/2016	13:08:00	27.135	9.6	169.5263	140.67	4.6825	280.95	14.2125	23036.58	9769.702	93281	1371.5	997.3	482.3	184	187.2
7/20/2016	13:09:00	26.91	9.795	172.1362	141.3	4.29375	257.625	14.2125	22766.99	9657.342	88700	1366.375	995.3	482.9	184.5	187.2
7/20/2016	13:10:00	27.465	9.835	164.2163	140.67	4.67375	280.425	14.2125	23119.52	9764.084	92671	1366.375	996.8	482.3	184.5	187.2
7/20/2016	13:11:00	27.36	10.065	171.3713	141.75	4.6725	280.35	14.2125	22684.04	9775.32	87805	1361.5	997.7	483.6	185	187.2
7/20/2016	13:12:00	27.285	9.975	168.345	141.21	4.67	280.2	14.2125	23036.58	9758.466	92144	1369.25	998.5	483.2	185	188.2
7/20/2016	13:13:00	27.18	10.015	170.235	141.21	4.68875	281.325	14.2125	22684.04	9651.724	87465	1368.125	997.3	483.3	185	188.2
7/20/2016	13:14:00	27.495	10.095	165.9713	140.13	4.31	258.6	14.2125	23119.52	9775.32	92259	1370.25	996.6	482.1	185	187.1
7/20/2016	13:15:00	27.24	10.19	168.2438	141.255	4.685	281.1	14.2125	22324.59	9657.342	87035	1370.625	998.5	482.9	185	187.1
7/20/2016	13:16:00	26.97	10.15	168.1538	140.715	4.6725	280.35	14.2125	23299.25	9657.342	93601	1371.75	997.1	481.9	184.5	187.1
Average		27.55	9.88	168.72	141.07	4.61	276.28	14.15	22763.04	9748.53	88368.05	1371.22	1000.98	482.92	187.72	190.18

July 20, 2016		Waste Flows						Air Flows				Temperatures				
		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack
Test#		FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258
Max		28.6	10.2	172.1	145.9	4.7	281.9	15.0	23299.3	9910.2	93998.0	1385.1	1007.6	491.2	192.0	192.4
Min		26.8	9.5	164.2												

TEST 3		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
Date	Time	mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
		PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	12:21:00	-17.05	-44.1	-76.65	315.75	23.9	89.32	8.1	40.06	11.7	8.71	1.48	881.3	22.86375
7/20/2016	12:22:00	-7.2	-31.9	-64.8	334.4375	24.2	88.14	8.13	40.06	11.2	8.64	1.32	888.6	22.24625
7/20/2016	12:23:00	-25.2	-51.9	-80.7	297.3125	22	86.01	8.05	40.06	11.2	8.73	1.46	879.4	22.83125
7/20/2016	12:24:00	-6.6	-30.3	-66.2625	335.25	21.3	86.66	7.94	40.06	11.4	8.86	1.46	860.2	22.96125
7/20/2016	12:25:00	-10.6	-34.95	-84.2625	314.4375	21.6	87.55	7.91	40.06	11.4	8.86	1.42	857.5	22.24625
7/20/2016	12:26:00	-4.45	-28.95	-56.8125	329.375	21.3	87.55	7.85	40.06	11.4	8.84	1.5	854.4	22.6525
7/20/2016	12:27:00	-9.85	-35.7	-69.0375	344.625	21.9	87.75	7.83	40.06	11.7	8.89	1.35	854.4	22.99375
7/20/2016	12:28:00	-1.45	-22.45	-56.0625	356.125	23.8	88.32	8.04	40.06	11.7	8.71	1.32	873.7	23.01
7/20/2016	12:29:00	-13.2	-37.55	-75.5625	330.1875	24.6	87.24	8.15	40.06	11.6	8.54	1.5	890.7	22.89625
7/20/2016	12:30:00	-7.1	-30.1	-56.7375	340.1875	24.1	85.81	8.12	40.06	11.1	8.54	1.32	890.7	22.62
7/20/2016	12:31:00	-18.2	-42.65	-74.775	328.5	22.4	85.97	8	40.06	11.5	8.73	1.5	878.2	22.99375
7/20/2016	12:32:00	-4.8	-27.8	-58.05	339.0625	22.5	86.86	7.97	40.06	11.7	8.81	1.48	866.5	22.2625
7/20/2016	12:33:00	-9.25	-32.5	-71.475	318.5	22.2	88.81	8.02	40.06	12.1	8.87	1.42	867.7	22.75
7/20/2016	12:34:00	-4.55	-27.55	-55.9875	331.5	22.4	88.69	7.95	40.06	11.7	8.89	1.48	865.7	22.49
7/20/2016	12:35:00	-7.6	-32.65	-57.8625	345.75	21.9	88.25	7.86	40.06	11.5	8.92	1.32	862.9	22.31125
7/20/2016	12:36:00	0.35	-21.95	-49.125	358.875	22.9	90.41	8.11	40.06	12.1	8.7	1.26	886	22.9775
7/20/2016	12:37:00	-10.85	-37.75	-64.8375	327.75	25.3	90.48	8.21	40.06	11.4	8.59	1.36	894.5	22.6525
7/20/2016	12:38:00	-6.15	-29.75	-61.6875	338.25	26.9	88.51	8.13	40.06	11.2	8.58	1.32	893.1	22.96125
7/20/2016	12:39:00	-7.75	-30.5	-66.0375	330	23.4	86.98	7.96	40.06	11.2	8.72	1.42	874	22.47375
7/20/2016	12:40:00	-4.45	-28.5	-59.2875	341.6875	20.4	86.63	7.85	40.06	11.6	8.93	1.48	851.6	22.24625
7/20/2016	12:41:00	-7.65	-31	-59.925	322.5625	20.9	89.1	7.9	40.06	11.2	8.83	1.46	853.7	22.295
7/20/2016	12:42:00	-2.8	-26.2	-53.475	335.5625	21.8	88.39	7.87	40.06	12	8.9	1.5	847.8	22.57125
7/20/2016	12:43:00	-9	-31.7	-58.6125	350.0625	23.6	87.54	7.88	40.06	11.4	9.04	1.25	846.1	22.815
7/20/2016	12:44:00	-2.85	-26	-51.1875	359.625	22.6	87.89	7.98	40.06	11.7	8.81	1.21	857	22.815
7/20/2016	12:45:00	-13.8	-39.05	-73.7625	329.625	20.9	87.36	8.06	40.06	10.8	8.73	1.33	869.4	23.05875
7/20/2016	12:46:00	-7.55	-30.05	-59.7375	339.0625	20.9	86.48	7.9	40.06	11.5	8.9	1.33	855.3	22.86375
7/20/2016	12:47:00	-13.55	-35.5	-76.4625	325.6875	21.2	86.71	7.84	40.06	11.3	9.07	1.42	851.6	22.57125
7/20/2016	12:48:00	-9.9	-32.1	-69.4875	339.375	22.4	87.9	7.8	40.06	12.6	9.14	1.48	839.8	22.92875
7/20/2016	12:49:00	-9.75	-30	-69.525	317.25	23.2	88.42	7.79	40.06	11.7	9.09	1.46	844.5	22.40875
7/20/2016	12:50:00	-5.6	-28.7	-55.35	330.625	22.8	86.21	7.67	40.06	12.5	9.08	1.5	835.2	22.2625
7/20/2016	12:51:00	-7.2	-29.1	-61.5	345.25	23.5	86.62	7.67	40.06	12.1	9.12	1.27	832.6	22.24625
7/20/2016	12:52:00	-5.15	-27.65	-51.075	355.625	24.5	86.67	7.9	40.06	12.8	8.96	1.23	854.4	22.60375
7/20/2016	12:53:00	-8.5	-31.7	-61.8	325.8125	25.6	85.21	7.92	40.06	11.5	8.83	1.3	862.3	22.9775
7/20/2016	12:54:00	-8.25	-32.75	-62.9625	341.5625	24.8	83.65	7.86	40.06	11.7	8.83	1.33	859.8	22.23
7/20/2016	12:55:00	-12.1	-34.95	-70.35	325.9375	23.3	82.17	7.81	40.06	11.8	9.05	1.46	844.5	22.76625
7/20/2016	12:56:00	-5.2	-25.4	-56.5875	337.375	23.5	83.25	7.77	40.06	12.4	9.14	1.52	834.4	22.66875
7/20/2016	12:57:00	-8.45	-32.2	-58.9875	323.5	22.7	86.49	7.72	40.06	11.5	9.09	1.46	827.8	22.57125
7/20/2016	12:58:00	-5.45	-26.05	-57.6	300.5625	23.5	83.07	7.67	40.06	12.6	9.12	1.48	827.8	22.7825
7/20/2016	12:59:00	-5.95	-28.75	-65.25	350.6875	25	82.06	7.75	40.06	12.1	9.17	1.21	835.8	22.3275
7/20/2016	13:00:00	-15.65	-47.75	-61.875	284.9375	25.4	80.25	7.91	40.06	13.2	8.88	1.21	849.9	22.99375
7/20/2016	13:01:00	-11.1	-35.7	-67.5375	334.25	27.3	78.96	7.96	40.06	11.7	8.77	1.3	862.1	22.9775
7/20/2016	13:02:00	-25.95	-54.35	-73.6125	270.875	26.9	74.92	7.93	40.06	12.3	8.81	1.36	862.2	22.34375
7/20/2016	13:03:00	-11.75	-36.3	-68.4375	334.75	24.5	73.94	7.9	40.06	11.7	8.91	1.42	859.6	22.40875
7/20/2016	13:04:00	-29.15	-57.15	-80.325	267.1875	24	74.84	7.82	40.06	13	9.02	1.46	840	22.96125
7/20/2016	13:05:00	-9.65	-32.8	-73.7625	326.4375	26.3	76.79	7.79	40.06	11.7	9.04	1.46	839.8	22.24625
7/20/2016	13:06:00	-31.85	-58.1	-79.0875	273.0625	25.5	76.56	7.74	40.06	12.6	9.08	1.46	836.4	22.31125
7/20/2016	13:07:00	-7.25	-29.9	-61.9125	353.375	25.3	76.67	7.8	40.06	12.1	9.02	1.21	844.2	22.92875
7/20/2016	13:08:00	-31.1	-61.35	-80.175	260.9375	25.9	76.84	7.89	40.06	12.8	8.97	1.42	850.1	22.99375
7/20/2016	13:09:00	-11	-34.25	-70.9875	333.4375	27	76.25	7.96	40.06	11.5	8.8	1.3	862.8	22.86375
7/20/2016	13:10:00	-31.15	-57.7	-81.825	270.625	25.9	74.31	7.87	40.06	12.9	8.92	1.42	851.2	22.945
7/20/2016	13:11:00	-9.2	-33.55	-64.35	337.6875	25.5	74.13	7.82	40.06	12.3	8.98	1.46	843	22.9775
7/20/2016	13:12:00	-27.85	-56.2	-77.8125	273.625	26.3	75.64	7.82	40.06	12.9	9.01	1.46	838.7	22.99375
7/20/2016	13:13:00	-8.75	-34.25	-62.325	328.9375	26	76	7.8	40.06	12	8.94	1.46	838.7	22.23
7/20/2016	13:14:00	-28.75	-50.55	-88.4625	298.0625	25.4	74.09	7.73	40.06	12.6	9.02	1.46	833.4	22.7175
7/20/2016	13:15:00	-7.25	-30.7	-61.6875	352.875	26.5	74.53	7.88	40.06	12.6	8.91	1.17	850.1	22.23
7/20/2016	13:16:00	-31.25	-55.95	-94.3875	286.625	26.8	74.39	7.88	40.06	13.6	8.87	1.36	855.6	22.3275
Average		-11.67	-35.80	-66.58	325.02	23.86	83.58	7.90	40.06	11.91	8.89	1.39	856.58	22.65

July 20, 2016

	Pressures				Analyzers							Flows	
	Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow
Test1	PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT
Max	0.4	-22.0	-49.1	359.6	27.3	90.5	8.2	40.1	13.6	9.2	1.5	894.5	23.1
Min	-31.9	-61.4	-94.4	260.9	20.4	73.9	7.7	40.1	10.8	8.5	1.2	827.8	22.2
Average	-11.7	-35.8	-66.6	325.0	23.9	83.6	7.9	40.1	11.9	8.9	1.4	856.6	22.7
Variance	72.5371	102.0737	100.2218	638.7544	3.599519	30.27618	0.016418	1.85E-27	0.37275	0.025702	0.009351	308.1166	0.0850191

TEST 4		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	13:38:00	27.15	9.95	170.7075	140.31	5.5	330	14.2125	22504.31	9578.69	88508	1377.875	993	480.9	185.5	188.2
7/20/2016	13:39:00	27.42	10.31	170.145	140.985	5.57125	334.275	14.2125	22151.77	9578.69	87151	1383.625	992.2	479.9	185	188.2
7/20/2016	13:40:00	27.465	9.855	168.39	140.04	6.13625	368.175	14.2125	23036.58	9691.05	88892	1374.375	993.6	481.6	184.5	187.1
7/20/2016	13:41:00	27.39	9.98	168.8175	139.995	4.60875	276.525	14.2125	22497.4	9589.926	88187	1368.125	993	482	185	187.1
7/20/2016	13:42:00	27.33	9.845	166.9725	138.78	4.895	293.7	14.2125	22946.71	9707.904	88060	1361.375	994.2	482.9	185	187.1
7/20/2016	13:43:00	27.63	9.755	171.7538	139.365	4.95125	297.075	14.2125	22504.31	9483.184	87685	1365.125	992.7	481.9	185	188.2
7/20/2016	13:44:00	27.42	9.765	169.2	138.285	4.72375	283.425	14.2125	22766.99	9629.252	88322	1359.375	993.2	482.8	185.5	188.2
7/20/2016	13:45:00	27.33	9.675	169.8075	138.87	4.92875	295.725	14.2125	22766.99	9629.252	87572	1361.875	994.4	482.6	185.5	188.2
7/20/2016	13:46:00	27.57	10.1	170.3812	138.645	5.65625	339.375	14.2125	22587.26	9584.308	87782	1357.5	991.6	483.8	185.5	188.2
7/20/2016	13:47:00	27.36	10.055	171.4725	140.49	7.24375	434.625	14.2125	22414.45	9477.566	87443	1364.875	995.6	482.6	185.5	187
7/20/2016	13:48:00	26.91	10.105	168.5363	139.95	5.1475	308.85	14.2125	22856.85	9629.252	88217	1360.125	992.7	484.3	185.5	187
7/20/2016	13:49:00	27.375	10.15	167.8725	141.165	4.74375	284.625	14.2125	22766.99	9528.128	86942	1362.125	994	484.9	185.5	187
7/20/2016	13:50:00	27.075	9.9	172.6087	140.49	5.76	345.6	14.2125	23036.58	9640.488	88444	1352.875	992.1	486.8	186	188.2
7/20/2016	13:51:00	27.36	10.07	167.9625	141.03	5.5625	333.75	14.2125	22684.04	9640.488	88348	1359.5	992.8	486.3	186	188.2
7/20/2016	13:52:00	27.585	9.995	168.0075	139.86	4.27	256.2	14.2125	22594.17	9646.106	88655	1359.375	994.3	487	186	188.2
7/20/2016	13:53:00	27.315	9.615	170.4262	139.275	4.5025	270.15	14.2125	22414.45	9639.275	87061	1360.125	991.8	485.8	186	188.2
7/20/2016	13:54:00	27.315	9.6	166.8262	138.735	5.14375	308.625	14.2125	22587.26	9634.87	88175	1355.75	995.9	487.2	186.5	188.2
7/20/2016	13:55:00	26.565	9.83	169.38	138.69	4.555	273.3	14.2125	22684.04	9533.746	86888	1362.625	995	485.8	186.5	188.2
7/20/2016	13:56:00	27.285	9.945	170.4713	138.87	4.55125	273.075	14.2125	23119.52	9646.106	90048	1356.75	993.7	487.9	187	188.2
7/20/2016	13:57:00	27.435	9.945	169.4812	139.41	4.9025	294.15	14.2125	22587.26	9646.106	87938	1356	992.2	487.4	187	188.2
7/20/2016	13:58:00	27.03	9.885	167.2087	138.69	5.27375	316.425	14.2125	22766.99	9646.106	88233	1349.125	995.1	488.8	187.5	188.2
7/20/2016	13:59:00	27.705	9.845	172.1362	139.95	4.955	297.3	14.2125	22421.36	9657.342	87195	1357	993.4	487.2	187.5	188.2
7/20/2016	14:00:00	27.39	10.23	172.3725	139.86	4.64375	278.625	14.2125	22587.26	9657.342	88983	1357.125	995.3	487.7	187.5	189.3
7/20/2016	14:01:00	27.24	10.055	169.7175	139.905	5.00375	300.225	14.2125	22856.85	9533.746	89808	1360.125	994.5	487.1	187.5	188.1
7/20/2016	14:02:00	27.15	9.725	169.9988	139.95	5.0025	300.15	14.2125	22504.31	9522.51	87818	1360.875	993.7	488.1	187.5	188.1
7/20/2016	14:03:00	27.345	10.045	175.2525	139.185	6.455	387.3	14.2125	22594.17	9522.51	92906	1365.75	997.5	487.4	187	188.1
7/20/2016	14:04:00	27.435	10.225	165.8812	139.23	6.99	419.4	14.2125	22856.85	9623.634	88412	1358.375	997	489.9	187.5	188.1
7/20/2016	14:05:00	27.12	9.815	173.1712	138.555	7.91	474.6	14.2125	23036.58	9516.892	93154	1361.75	996	489.1	187.5	188.1
7/20/2016	14:06:00	27.345	9.95	157.1175	138.87	7.9125	474.75	14.2125	22766.99	9640.488	88021	1355.5	994	488.4	188	188.1
7/20/2016	14:07:00	27.135	9.89	157.7813	138.87	7.91	474.6	14.2125	22863.76	9623.634	93642	1360.25	994.9	482.5	187	189.3
7/20/2016	14:08:00	27.39	9.805	154.5075	138.825	7.25875	435.525	14.2125	22684.04	9629.252	87958	1354.5	994.6	480.2	186	188.3
7/20/2016	14:09:00	27.24	9.81	156.1725	138.285	7.91	474.6	14.2125	23119.52	9629.252	93073	1359.75	996.4	477.2	184.5	188.3
7/20/2016	14:10:00	27.345	10.01	158.6813	138.825	6.43625	386.175	14.2125	22766.99	9516.892	87831	1358.875	994.7	477.5	184	188.3
7/20/2016	14:11:00	27.405	9.87	132.48	139.545	7.73	463.8	14.2125	23389.11	9764.084	93042	1362.125	992.5	475.7	183	187.2
7/20/2016	14:12:00	27.57	9.975	169.245	139.41	8.3875	503.25	14.2125	22684.04	9618.016	88174	1358	993.7	479.1	182.5	187.2
7/20/2016	14:13:00	27.135	9.8	168.0525	139.32	7.9075	474.45	14.2125	23126.44	9618.016	92852	1358.75	992.4	484.4	183	187.2
7/20/2016	14:14:00	27.405	9.885	166.635	139.365	5.37375	322.425	14.2125	22594.17	9618.016	88729	1358	993.5	482.9	184	187.2
7/20/2016	14:15:00	27	9.58	169.4812	138.24	6.4775	388.65	14.2125	23119.52	9629.252	91909	1358	996.3	484.6	183.5	187.2
7/20/2016	14:16:00	27.27	9.88	171.4725	139.545	6.01125	360.675	14.2125	22241.64	9511.274	87696	1357.875	995.8	487.3	184.5	187.2
7/20/2016	14:17:00	27.195	9.785	169.245	137.61	6.65125	399.075	14.2125	23478.97	9640.488	89964	1359.125	996.1	488.8	185	187.2
7/20/2016	14:18:00	27.15	9.705	169.0537	138.69	5.265	315.9	14.2125	22504.31	9522.51	87458	1361.125	994.9	489.7	185.5	187.2
7/20/2016	14:19:00	27.6	9.715	171	138.015	5.60375	336.225	14.2125	23396.02	9646.106	90712	1359.25	996.2	489	185.5	187.2
7/20/2016	14:20:00	27.195	9.91	170.4262	138.87	5.23875	314.325	14.2125	22594.17	9544.982	88229	1356.875	996.4	489.9	186.5	187.2
7/20/2016	14:21:00	27.015	9.925	169.29	137.79	6.87875	412.725	14.2125	23299.25	9646.106	90652	1353.375	992.7	490.3	187	188.3
7/20/2016	14:22:00	27.03	9.87	170.4713	138.375	4.84625	290.775	14.2125	22684.04	9528.128	87806	1353	993.5	490.8	188	188.3
7/20/2016	14:23:00	27.345	9.955	169.9537	137.79	4.8125	288.75	14.2125	22946.71	9629.252	89157	1351.875	995.7	489.8	187.5	188.3
7/20/2016	14:24:00	27.405	10.025	171.4725	138.915	5.08375	305.025	14.2125	22421.36	9528.128	86789	1354.25	996.2	488.3	188	188.3
7/20/2016	14:25:00	27.525	9.92	169.245	138.375	5.30125	318.075	14.2125	22863.76	9657.342	88175	1353.125	994.9	489.8	187.5	188.3
7/20/2016	14:26:00	27.285	10.13	169.6162	139.05	6.49	389.4	14.2125	22504.31	9516.892	86219	1358.25	994	488.6	188	188.3
7/20/2016	14:27:00	27.585	9.84	170.19	138.33	5.18625	311.175	14.2125	22946.71	9651.724	90169	1356.875	994.1	489.7	187.5	189.4
7/20/2016	14:28:00	27.57	9.865	169.245	139.41	5.9075	354.45	14.2125	22594.17	9550.6	87983	1357.5	996.8	490.5	187.5	188.1
7/20/2016	14:29:00	27.24	9.873	169.9988	137.745	5.1475	308.85	14.2125	22856.85	9679.814	89598	1353.875	996.2	490.3	187.5	189.3
7/20/2016	14:30:00	27.03	9.61	170.6175	138.375	6.28125	376.875	14.2125	22511.22	9550.6	88067	1354.625	994.6	490	188	189.3
7/20/2016	14:31:00	27.345	9.43	168.345	137.115	7.50875	450.525	14.2125	22946.71	9657.342	88864	1353.875	993.8	489.8	188	189.3
7/20/2016	14:32:00	27.39	9.835	169.6725	137.7	4.47875	268.725	14.2125	22421.36	9550.6	88313	1356	995.5	489.6	188	189.3
7/20/2016	14:33:00	27.24	9.83	170.3812	136.44	7.92	475.2	14.2125	22670.21	9550.6	87874	1354.5	996	488.6	188	188.3
7/20/2016	14:34:00	27.255	9.805	169.335	137.52	5.65375	339.225	14.2125	22331.5	9443.858	86026	1357.875	996.7	486.9	188	189.4
7/20/2016	14:35:00	27.285	9.73	169.9537	137.52	7.48	448.8	14.2125	22946.71	9657.342	89143	1354.75	996.3	488.8	187.5	188.3
7/20/2016	14:36:00	27.3	10.01	170.8537	138.78	5.335	320.1	14.2125	22594.17	9522.51	87292	1358	996.9	489.2	188	189.4
7/20/2016	14:37:00	27.255	9.97	169.5712	138.465	5.81375	348.825	14.2125	22953.63	9623.634	88470	1352	996.2	490.8	188	189.4
7/20/2016	14:38:00	27.465	10	170.3812	141.885	7.59625	455.775									

TEST 4		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
Date	Time	mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
		PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	13:38:00	-10.05	-32.55	-81.4875	347.25	34.9	67.41	7.62	40.06	13.8	9.14	1.21	829.3	22.18125
7/20/2016	13:39:00	-6.9	-28.1	-64.8	360	37.6	66.82	7.86	40.06	14	9	1.21	853.7	22.425
7/20/2016	13:40:00	-15.9	-39.55	-80.7375	329	38.7	66.24	7.94	40.06	13.9	8.94	1.25	863.3	22.86375
7/20/2016	13:41:00	-10.85	-33.95	-69.825	343.125	38.5	63.14	7.93	40.06	13.2	8.83	1.27	867.1	22.60375
7/20/2016	13:42:00	-16.05	-39.3	-77.85	334.0625	27.2	62.46	7.8	40.06	12.8	9.01	1.36	850.7	22.6525
7/20/2016	13:43:00	-9.1	-31.45	-70.95	345.625	25.2	63.71	7.77	40.06	13.2	9.07	1.42	838.4	22.50625
7/20/2016	13:44:00	-11	-35.15	-69.7125	325.125	25.2	67.91	7.8	40.06	12.3	9.02	1.33	837.7	22.425
7/20/2016	13:45:00	-5.65	-27.8	-60.9375	336.3125	25	68.19	7.7	40.06	8.9	9.09	1.4	832.5	22.34375
7/20/2016	13:46:00	-9.15	-31.7	-71.3625	349.0625	9.5	29.44	2.46	40.06	14.7	11.46		319.2	22.24625
7/20/2016	13:47:00	-4.75	-23.75	-65.8875	359.5625	7.8	27.41	1.88	40.06	16.8	12.28		225.5	22.3275
7/20/2016	13:48:00	-14.2	-39.2	-77.1375	329.8125	27.3	73.44	6.74	40.06	13.7	10.12		718.8	22.89625
7/20/2016	13:49:00	-9.3	-31.75	-63.975	341.0625	29	76.41	7.74	40.06	13	9.01		853.9	22.9775
7/20/2016	13:50:00	-14.05	-37.5	-69.45	327.75	28	74.31	7.82	40.06	12.1	9.11		864.3	22.5225
7/20/2016	13:51:00	-10.5	-33.7	-64.9875	341.8125	26.3	72.59	7.77	40.06	13.1	9.12		844.1	22.70125
7/20/2016	13:52:00	-13.7	-36.95	-74.7375	321.0625	27.4	73.62	7.78	40.06	11.9	9.09	1.31	845.3	22.2625
7/20/2016	13:53:00	-8.4	-30.25	-64.8375	335.5625	27.8	72.68	7.65	40.06	12.2	9.18	1.36	840	22.9125
7/20/2016	13:54:00	-10.3	-31.8	-71.7375	350.1875	26.4	72.88	7.78	40.06	11.7	9.15	1.22	847.6	22.7825
7/20/2016	13:55:00	-5.9	-26.45	-61.6875	359.125	25.7	73.22	7.82	40.06	11.9	9.07	1.12	851.6	22.49
7/20/2016	13:56:00	-14.65	-38.2	-72.225	332.25	25.8	73.29	7.88	40.06	11.3	8.98	1.2	862.3	22.79875
7/20/2016	13:57:00	-11.05	-37	-62.6625	325.375	25.6	72.62	7.83	40.06	11.5	9.01	1.23	856	22.5225
7/20/2016	13:58:00	-13.1	-36.45	-65.175	331.25	24	72.45	7.75	40.06	11.3	9.16	1.36	843.9	22.6525
7/20/2016	13:59:00	-9.3	-33.55	-70.0875	296.1875	24	73.64	7.76	40.06	11.5	9.18	1.5	843.9	22.21375
7/20/2016	14:00:00	-10.85	-35.15	-68.025	323	24.4	75.35	7.76	40.06	11.6	9.07	1.37	846.8	23.0425
7/20/2016	14:01:00	-12.75	-42.9	-68.475	293.5	28.4	74.07	7.68	40.06	12.4	9.15	1.4	846.8	22.945
7/20/2016	14:02:00	-7.8	-30.45	-63.5625	347	29.7	74.01	7.78	40.06	11.4	9.2	1.17	857.4	22.2625
7/20/2016	14:03:00	-21.85	-52.6	-68.8875	287.375	27.7	73.5	7.94	40.06	12	8.9	1.21	870.2	22.3275
7/20/2016	14:04:00	-12.35	-36.15	-66.15	332.8125	30.1	72.84	7.99	40.06	11.3	8.83	1.25	880.8	22.99375
7/20/2016	14:05:00	-25.2	-52.55	-72.225	286.4375	36.1	69.33	7.96	40.06	11.6	8.78	1.33	889.2	22.18125
7/20/2016	14:06:00	-14.5	-37.5	-74.2875	332.3125	31.6	68.75	7.86	40.06	11.3	8.93	1.36	872.8	22.27875
7/20/2016	14:07:00	-31.75	-58.4	-83.325	283.4375	30.8	69.29	7.81	40.06	10.9	9.03	1.4	859.7	22.99375
7/20/2016	14:08:00	-13.3	-34.2	-62.7375	323.625	21	69.11	7.4	40.06	10.8	9.38	1.37	802.8	22.3925
7/20/2016	14:09:00	-33.7	-59.85	-87.825	293.9375	20	69.21	7.26	40.06	11.2	9.58	1.35	781	22.21375
7/20/2016	14:10:00	-10.2	-33.15	-70.2375	353.8125	19.8	71.05	7.37	40.06	11.4	9.71	1.11	772.3	22.44125
7/20/2016	14:11:00	-46.2	-71.55	-96.375	258.375	20.1	73.6	7.47	40.06	11.3	9.53	1.23	789.9	22.5225
7/20/2016	14:12:00	-13.7	-36.3	-70.2375	334.8125	19.6	73.92	7.42	40.06	11.2	9.41	1.18	783.9	22.86375
7/20/2016	14:13:00	-29.9	-57.5	-85.875	266.75	22.1	74.19	7.43	40.06	12.2	9.45	1.3	793.8	22.89625
7/20/2016	14:14:00	-9.4	-31.35	-68.475	342.375	24.2	75.49	7.58	40.06	11.6	9.38	1.3	821.5	22.88
7/20/2016	14:15:00	-30.25	-58.75	-87.2625	290.25	23.2	78.06	7.59	40.06	12.3	9.31	1.37	812.6	23.01
7/20/2016	14:16:00	-8	-31.6	-68.8125	332.75	24.8	77.75	7.57	40.06	11.7	9.31	1.35	820.6	22.96125
7/20/2016	14:17:00	-23.55	-45	-79.6875	335.875	26.4	77.16	7.7	40.06	12.1	9.13	1.4	849.4	22.555
7/20/2016	14:18:00	-6.4	-29.85	-69.3	359.1875	29	76.13	7.92	40.06	11.2	8.85	1.08	874.2	22.70125
7/20/2016	14:19:00	-27.4	-48.05	-88.2375	314.625	27.9	75.91	7.94	40.06	11.7	8.83	1.3	880.8	22.99375
7/20/2016	14:20:00	-12.05	-35.3	-71.1375	337.875	27	74.32	7.93	40.06	11.3	8.84	1.22	883.3	22.24625
7/20/2016	14:21:00	-29.95	-55.35	-96.9375	299.875	26.8	73.31	7.9	40.06	11.5	8.92	1.31	874.5	23.01
7/20/2016	14:22:00	-10.25	-32.25	-69.9375	339.0625	25.6	73.26	7.85	40.06	11.3	9.05	1.36	864.5	22.23
7/20/2016	14:23:00	-17.25	-41.4	-83.8125	312.875	24.8	75.33	7.85	40.06	11.6	9.11	1.37	863.3	22.92875
7/20/2016	14:24:00	-6.85	-30.25	-63.375	330.5625	25.4	74.97	7.79	40.06	11.7	9.13	1.33	858	22.99375
7/20/2016	14:25:00	-12.2	-37.95	-74.5875	342.75	27.5	73.32	7.76	40.06	12.1	9.2	1.27	855.7	22.36
7/20/2016	14:26:00	-5.6	-28.05	-58.6875	358	29.6	73.37	7.88	40.06	12.1	9.06	1.21	871.4	22.40875
7/20/2016	14:27:00	-16.15	-41.15	-84.075	321.75	32.5	73.03	7.98	40.06	11.6	8.87	1.37	885.3	22.70125
7/20/2016	14:28:00	-8.65	-31.85	-64.0125	339.375	31.7	71.51	7.95	40.06	11.2	8.79	1.22	886.2	22.3925
7/20/2016	14:29:00	-14.6	-39.5	-77.5875	326.0625	29.1	70.25	7.87	40.06	11.5	8.86	1.37	879.9	22.5225
7/20/2016	14:30:00	-9.45	-34.15	-71.25	340.9375	27.8	69.53	7.85	40.06	11.5	8.99	1.36	864.6	22.3275
7/20/2016	14:31:00	-13.5	-37.65	-77.8875	318.6875	27.3	70.28	7.86	40.06	11.6	8.97	1.31	861.6	22.62
7/20/2016	14:32:00	-6	-28.15	-62.5125	333.6875	27	71.41	7.78	40.06	11.5	9.04	1.41	855.4	22.62
7/20/2016	14:33:00	-9.1	-33.5	-71.5125	348.6875	27.4	70.45	7.74	40.06	11.9	9.15	1.17	850.6	22.36
7/20/2016	14:34:00	-4.5	-27.8	-54.0375	360.0625	27.1	71.34	7.91	40.06	11.9	9.01	1.25	869	22.555
7/20/2016	14:35:00	-14.7	-39.15	-63.0375	327.0625	28.5	70.37	7.98	40.06	11.8	8.83	1.3	885.4	22.63625
7/20/2016	14:36:00	-9.3	-33.7	-63.5625	341	28.3	69.47	7.95	40.06	11.6	8.77	1.27	882.6	22.44125
7/20/2016	14:37:00	-12.6	-36.35	-80.1375	329.375	28.1	69.34	7.91	40.06	11.9	8.92	1.32	880.5	22.62
7/20/2016	14:38:00	-5.95	-30.6	-70.875	343.4375	28.2	69.58	7.89	40.06	11.9	9.03	1.4	868.4	22.86375
Average		-13.80	-37.59	-71.99	328.92	26.78	70.44	7.58	40.06	11.99	9.19	1.30	830.10	22.60

Opacity
Daily
Calibration

Test#	Pressures				Analyzers								Flows	
	Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow	
	PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT	
Max	-4.5	-23.8	-54.0	360.1	38.7	78.1	8.0	40.1	16.8	12.3	1.5	889.2	23.0	
Min	-46.2	-71.6	-96.9	258.4	7.8	27.4	1.9	40.1	8.9	8.8	1.1	225.5	22.2	
Average	-13.8	-37.6	-72.0	328.9	26.8	70.4	7.6	40.1	12.0	9.2	1.3	830.1	22.6	
Variance	68.29369	90.28321	79.9499	524.0933	27.94737	72.12033	1.054411	1.85E-27	1.205098	0.311435	0.007823	11828.78	0.0729727	

TEST 5		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	14:54:00	27.03	9.715	170.3363	141.3	7.915	474.9	14.25	22504.31	9505.656	88008	1349.5	996.6	486.8	184.5	187.6
7/20/2016	14:55:00	26.82	9.925	170.5725	140.85	7.9225	475.35	14.25	22504.31	9505.656	88049	1346.75	997	486.6	184.5	187.6
7/20/2016	14:56:00	27.51	9.92	169.6162	140.85	6.835	410.1	14.25	22338.41	9505.656	87814	1349.75	997	485.1	184	187.6
7/20/2016	14:57:00	27.33	10.1	169.6725	140.85	7.9225	475.35	14.25	22594.17	9511.274	87571	1349.375	997.5	484.9	183.5	186.5
7/20/2016	14:58:00	27.375	10.04	168.9075	141.435	7.8725	472.35	14.25	22594.17	9516.892	87962	1354.625	995.4	483.4	183	186.5
7/20/2016	14:59:00	27.27	9.965	170.3363	140.265	7.38125	442.875	14.25	22953.63	9618.016	89952	1345.125	995.6	485.2	183	186.5
7/20/2016	15:00:00	27.3	9.625	169.4812	140.805	5.14875	308.925	14.25	22766.99	9500.038	92819	1346.625	996.7	484.3	182.5	186.5
7/20/2016	15:01:00	27.105	9.845	169.7175	140.85	6.21375	372.825	14.25	22684.04	9646.106	88877	1338	995.1	485.9	183	186.5
7/20/2016	15:02:00	27.18	9.845	170.19	140.85	7.91625	474.975	14.25	22504.31	9539.364	94080	1343.375	994	484.5	183	186.5
7/20/2016	15:03:00	26.985	9.985	170.145	141.39	6.375	382.5	14.25	22421.36	9573.072	87925	1339.75	993.9	485.1	183	186.5
7/20/2016	15:04:00	27.09	9.965	169.9537	140.985	7.91625	474.975	14.25	22953.63	9573.072	94368	1346.875	994.6	483.8	182.5	186.5
7/20/2016	15:05:00	27.21	9.955	170.7525	141.525	4.50375	270.225	14.25	22684.04	9584.308	88048	1347.875	994.9	484.7	182.5	185.4
7/20/2016	15:06:00	26.97	9.615	169.335	141.525	6.01375	360.825	14.25	22690.95	9584.308	93944	1354.75	994.3	482.6	182	185.4
7/20/2016	15:07:00	27.465	10.055	169.29	141.525	7.92125	475.275	14.25	22766.99	9584.308	88759	1343.625	995	484.7	182	185.4
7/20/2016	15:08:00	27.405	9.755	169.335	140.04	7.92	475.2	14.25	23216.3	9612.398	93600	1346.125	994	483.6	182	185.4
7/20/2016	15:09:00	27.105	10.255	171.18	140.04	7.3525	441.15	14.25	22690.95	9505.656	88171	1342.75	992.3	485	182.5	186.4
7/20/2016	15:10:00	27.09	9.925	169.0988	139.95	6.6425	398.55	14.25	23036.58	9522.51	94021	1342.75	992.2	484.2	182	186.4
7/20/2016	15:11:00	27.225	9.92	169.9537	140.49	7.9175	475.05	14.25	22684.04	9544.982	88938	1340.125	994	484.3	182.5	185.3
7/20/2016	15:12:00	27.615	9.875	169.7175	139.41	7.2575	435.45	14.25	23043.49	9691.05	92306	1347	992.9	484.2	182	185.3
7/20/2016	15:13:00	27.645	9.88	169.2	139.41	7.91875	475.125	14.25	22414.45	9584.308	87674	1348	994.3	485.4	182.5	185.3
7/20/2016	15:14:00	27.795	9.765	169.7625	138.825	7.64375	458.625	14.25	23126.44	9685.432	93267	1350.875	993.7	485.1	182	185.3
7/20/2016	15:15:00	27.765	9.92	171.5625	139.275	7.89375	473.625	14.25	22684.04	9584.308	88743	1349.125	995.1	487.4	183	185.3
7/20/2016	15:16:00	27.825	9.94	169.5263	137.97	7.91125	474.675	14.25	23126.44	9584.308	92694	1348.75	996.3	487.7	183.5	185.3
7/20/2016	15:17:00	27.69	10.035	170.7075	138.51	7.04375	422.625	14.25	22766.99	9455.094	88614	1348.375	992.6	488.3	184	186.4
7/20/2016	15:18:00	27.885	9.62	170.0437	137.385	7.91125	474.675	14.25	22946.71	9662.96	88553	1348.875	994	487.6	184	186.4
7/20/2016	15:19:00	27.84	9.86	170.28	138.15	7.91125	474.675	14.25	22504.31	9533.746	87394	1349.25	995.1	487.6	184.5	186.4
7/20/2016	15:20:00	27.48	9.81	170.5162	138.915	7.91875	475.125	14.25	22684.04	9646.106	88293	1350.125	995.8	487.6	184.5	186.4
7/20/2016	15:21:00	27.675	10.225	170.4262	139.455	7.91625	474.975	14.25	22511.22	9533.746	87326	1356.75	993	487.6	184.5	186.4
7/20/2016	15:22:00	27.765	10.225	169.7175	138.15	7.5825	454.95	14.25	23043.49	9646.106	89886	1356.875	995.9	487.4	184.5	186.4
7/20/2016	15:23:00	27.585	9.93	170.0437	138.735	5.04375	302.625	14.25	22504.31	9539.364	87865	1352	992.9	488.4	185	186.4
7/20/2016	15:24:00	27.885	9.995	169.335	137.52	7.51125	450.675	14.25	23396.02	9662.96	91131	1350.375	992.7	489.1	185	187.6
7/20/2016	15:25:00	27.645	9.995	170.4262	138.735	7.9125	474.75	14.25	22594.17	9556.218	88671	1348.125	992.5	489.4	185.5	187.6
7/20/2016	15:26:00	27.675	9.58	169.6725	137.34	7.91	474.6	14.25	22856.85	9674.196	88904	1349.75	994.8	488.9	185.5	188.8
7/20/2016	15:27:00	27.735	9.805	169.4363	138.015	5.3775	322.65	14.25	22331.5	9460.712	88425	1351.75	993.9	488.4	186	187.7
7/20/2016	15:28:00	27.72	9.87	169.4363	136.755	7.07125	424.275	14.25	22863.76	9623.634	88970	1350.125	994.7	488.9	186	187.7
7/20/2016	15:29:00	27.735	10.085	170.0437	138.69	7.91125	474.675	14.25	22331.5	9415.768	86999	1352.625	994	487.8	186	187.7
7/20/2016	15:30:00	27.57	9.995	169.6162	136.485	7.9075	474.45	14.25	22953.63	9601.162	89812	1349.875	994.2	489.1	185.5	188.8
7/20/2016	15:31:00	27.9	10.24	169.7625	137.61	7.90875	474.525	14.25	22601.09	9500.038	87909	1353.75	995.1	489.1	186	187.8
7/20/2016	15:32:00	27.78	9.735	171	135.765	7.91	474.6	14.25	23043.49	9629.252	89864	1346.25	995.8	490.8	186.5	187.8
7/20/2016	15:33:00	27.78	9.92	170.1	136.89	7.9175	475.05	14.25	22690.95	9522.51	87605	1349.375	994.9	490.4	187	187.8
7/20/2016	15:34:00	27.78	9.965	171.2362	135.135	7.915	474.9	14.25	22594.17	9685.432	88127	1350.5	996.1	490.7	187.5	187.8
7/20/2016	15:35:00	27.51	9.825	170.145	135.765	7.9175	475.05	14.25	22414.45	9573.072	87711	1355	994.3	490.3	187.5	187.8
7/20/2016	15:36:00	27.915	9.82	171.3262	134.685	7.91375	474.825	14.25	22766.99	9601.162	87732	1353.125	994.2	490.9	188	187.8
7/20/2016	15:37:00	27.735	9.885	170.9437	135.765	7.0475	422.85	14.25	22241.64	9500.038	86082	1357.25	996.5	490.3	188	187.8
7/20/2016	15:38:00	27.96	9.9	171.5175	134.64	7.61125	456.675	14.25	22773.9	9612.398	88489	1356.125	997	491.6	188	187.8
7/20/2016	15:39:00	27.645	10.05	171.2813	135.225	6.38375	383.025	14.25	22414.45	9612.398	87313	1357.5	997.5	492.4	189	187.8
7/20/2016	15:40:00	27.57	10.01	171.5625	134.82	7.91625	474.975	14.25	22863.76	9674.196	88137	1353.5	999	493.8	189.5	189
7/20/2016	15:41:00	27.735	9.85	171.045	135.9	7.9175	475.05	14.25	22151.77	9556.218	86795	1359	996	493.2	190	189.1
7/20/2016	15:42:00	28.005	9.885	171.4162	134.595	7.91625	474.975	14.25	22856.85	9556.218	89121	1356.375	997.1	493.5	190	190.2
7/20/2016	15:43:00	27.57	9.79	170.3812	135.135	7.91875	475.125	14.25	22504.31	9556.218	86470	1359.875	998.8	493.4	190.5	189
7/20/2016	15:44:00	27.705	9.89	172.035	134.64	7.915	474.9	14.25	22504.31	9539.364	88278	1358.625	998.5	494.7	190.5	189.9
7/20/2016	15:45:00	27.915	9.985	170.6175	135.72	7.915	474.9	14.25	22331.5	9539.364	86568	1361.375	997.6	494.9	190.5	189.9
7/20/2016	15:46:00	27.465	9.96	173.0363	135.18	7.9175	475.05	14.25	22511.22	9640.488	88530	1361.125	999.1	496.4	190.5	189.9
7/20/2016	15:47:00	27.72	9.98	170.7075	136.035	7.91625	474.975	14.25	22511.22	9640.488	87378	1360	998.4	497.2	191	189.9
7/20/2016	15:48:00	27.57	10.21	171.18	135.945	7.9175	475.05	14.25	22684.04	9629.252	88479	1355.625	999.6	498.4	191.5	190.7
7/20/2016	15:49:00	27.855	10.025	171.6075	136.665	7.92125	475.275	14.25	22331.5	9528.128	86979	1361.125	999.2	497.4	191	190.7
7/20/2016	15:50:00	27.9	10.105	170.8088	135.18	7.925	475.5	14.25	22511.22	9494.42	87214	1360.5	998.4	497.9	191	190.7
7/20/2016	15:51:00	27.705	9.99	170.3363	135.18	7.9225	475.35	14.25	22241.64	9595.544	85298	1365.125	1000.4	496.7	191	190.7
7/20/2016	15:52:00	27.9	9.445	171.7538	134.055	7.915	474.9	14.25	22511.22	9595.544	87221	1360.875	999.5	497.2	191	190.7
7/20/2016	15:53:00	27.615	9.745	170.3363	134.595	7.915	474.9	14.25	22151.77	9595.544	85041	1362.375	999.3	496	191	190.7
7/20/2016	15:54:00	27.705	9.69	170.7525	133.38	7.91625	474.975	14.25	22601.09	9595.544	88409	1353.125	999.2	497.4		

TEST 5		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
		mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
Date	Time	PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	14:54:00	-7.7	-34	-60.825	342.3125	27.4	66.41	7.76	40.06	12.3	9.13	1.37	857.4	22.23
7/20/2016	14:55:00	-10.4	-34.45	-65.175	322	27.6	67.41	7.83	40.06	11.6	9.13	1.33	862.5	22.44125
7/20/2016	14:56:00	-7.7	-30.4	-71.3625	288.75	27.8	65.82	7.75	40.06	12.2	9.18	1.37	857.3	22.7825
7/20/2016	14:57:00	-8.6	-32.25	-67.8	351.875	27.7	66.67	7.89	40.06	11.8	9.11	1.21	869.9	22.62
7/20/2016	14:58:00	-8.4	-36.7	-60.9	274.25	27.9	66.84	7.89	40.06	12.2	9.03	1.08	875.2	22.6525
7/20/2016	14:59:00	-11.75	-36.7	-68.7	332.3125	27.6	65.29	7.9	40.06	10.9	8.86	1.17	883.3	22.295
7/20/2016	15:00:00	-23.15	-56.4	-74.025	262.375	25.9	64.2	7.85	40.06	11.4	8.89	1.25	875.6	22.47375
7/20/2016	15:01:00	-12.7	-37.55	-71.1	332.125	22.3	64.37	7.73	40.06	10.9	9.08	1.33	853.5	22.21375
7/20/2016	15:02:00	-26.65	-55	-66.3	258.3125	21.8	67.26	7.66	40.06	11.5	9.14	1.4	842.7	22.945
7/20/2016	15:03:00	-9.85	-33.35	-70.125	324.5625	23.6	69.19	7.69	40.06	11	9.11	1.37	846.4	22.27875
7/20/2016	15:04:00	-31.95	-60.6	-76.125	263.5	24.3	69.37	7.69	40.06	11.7	9.21	1.4	849.2	22.24625
7/20/2016	15:05:00	-6.6	-31.1	-64.425	351.6875	24.9	69.43	7.77	40.06	11.4	9.23	1.18	858.2	22.76625
7/20/2016	15:06:00	-30.7	-60.05	-77.175	254.875	25.6	70.45	7.86	40.06	11.8	8.99	1.25	868.1	22.7175
7/20/2016	15:07:00	-12.05	-37	-67.425	335.4375	27.4	68.12	7.9	40.06	11	8.88	1.21	880.1	22.96125
7/20/2016	15:08:00	-30.75	-61.7	-77.7375	261.4375	26.4	67.14	7.86	40.06	11.6	8.94	1.33	880.1	22.24625
7/20/2016	15:09:00	-10.05	-33.4	-62.175	336.75	24.7	67.23	7.79	40.06	11	9.08	1.35	861.1	22.50625
7/20/2016	15:10:00	-29.85	-57.3	-85.3875	259.9375	25.2	67.82	7.73	40.06	11.7	9.15	1.37	849.6	22.1975
7/20/2016	15:11:00	-9.65	-33.25	-60.7125	327.8125	23.6	69.17	7.67	40.06	11.1	9.21	1.33	848.3	22.1975
7/20/2016	15:12:00	-31.15	-58.25	-80.4	306.5	23.7	68.52	7.68	40.06	12	9.32	1.37	846	22.40875
7/20/2016	15:13:00	-5.35	-29.5	-62.55	355.8125	24.8	69.56	7.83	40.06	11.2	9.13	1.15	861.9	22.96125
7/20/2016	15:14:00	-32.05	-60.3	-83.4375	286.0625	26.6	70.45	7.93	40.06	11.5	8.87	1.33	884.7	22.96125
7/20/2016	15:15:00	-11	-36.35	-68.7	336.25	27.1	69.9	7.93	40.06	10.5	8.8	1.25	889.8	23.0425
7/20/2016	15:16:00	-29.1	-56.5	-87.7125	271.5	25.7	68.77	7.9	40.06	11.2	8.88	1.33	880.4	22.9125
7/20/2016	15:17:00	-8.9	-32.4	-66.3375	341.1875	25.9	68.65	7.9	40.06	10.8	8.98	1.4	878.9	22.2625
7/20/2016	15:18:00	-14.65	-37.3	-78.225	315.5625	25	70.39	7.85	40.06	11.2	9.02	1.37	868.9	23.01
7/20/2016	15:19:00	-8.5	-30.45	-62.7375	332.5625	23.8	71.76	7.83	40.06	10.9	9	1.42	870.4	22.5875
7/20/2016	15:20:00	-11.3	-35.3	-79.275	344.5625	24.2	70.78	7.8	40.06	11.2	9.03	1.33	870.4	22.36
7/20/2016	15:21:00	-6.1	-29.2	-60.7125	358	27	71.25	7.99	40.06	11.1	8.88	1.12	891.3	22.23
7/20/2016	15:22:00	-17.7	-44.05	-79.0125	320.9375	28.6	70.74	8.01	40.06	11.5	8.81	1.33	898.4	22.3275
7/20/2016	15:23:00	-9.35	-35.05	-58.35	341.5625	29.7	68.15	8	40.06	10.9	8.72	1.21	906.5	22.73375
7/20/2016	15:24:00	-21.15	-44.8	-77.2875	311.8125	26.8	66.65	7.9	40.06	11.5	8.91	1.31	891.8	22.3275
7/20/2016	15:25:00	-8.45	-33.35	-55.5375	339.4375	26	67.48	7.87	40.06	11.2	8.97	1.35	881.4	22.18125
7/20/2016	15:26:00	-13.1	-35.95	-86.25	314.0625	25	69.82	7.87	40.06	11.4	9.03	1.3	879.8	22.9775
7/20/2016	15:27:00	-8.5	-32.3	-71.325	331.3125	25.5	69.77	7.79	40.06	11.3	9.1	1.33	873.6	22.70125
7/20/2016	15:28:00	-11.1	-34.45	-75.4125	345.625	26.5	69.49	7.77	40.06	11.5	9.21	1.18	867	22.24625
7/20/2016	15:29:00	-2.95	-24.25	-63.7875	356	26.1	70.4	7.92	40.06	11.3	9.05	1.16	880.6	22.5225
7/20/2016	15:30:00	-14.9	-39.4	-80.025	322.875	27	70.53	7.91	40.06	11.4	8.84	1.37	892.1	22.2625
7/20/2016	15:31:00	-7	-31.7	-60.2625	338.4375	27.9	69.03	7.93	40.06	11	8.8	1.25	898.4	22.70125
7/20/2016	15:32:00	-14.25	-40.2	-78.15	325.6875	26.3	67.99	7.96	40.06	11.3	8.88	1.31	895.9	22.75
7/20/2016	15:33:00	-7.25	-29.8	-54.825	341.0625	26.8	68.39	7.96	40.06	11.2	8.98	1.37	886.8	22.1975
7/20/2016	15:34:00	-11.9	-36.9	-63.5625	318.5625	26.6	70.25	7.96	40.06	10.9	8.96	1.31	884.9	22.70125
7/20/2016	15:35:00	-4.1	-26.6	-49.725	333.5	25.2	72.85	7.86	40.06	11.3	8.92	1.37	882	22.92875
7/20/2016	15:36:00	-6.75	-30.35	-55.6125	348.0625	26.5	72.17	7.91	40.06	11.1	8.99	1.12	884.1	22.23
7/20/2016	15:37:00	-2	-25	-52.425	360.375	26.3	72.24	8.02	40.06	11.1	8.79	1.25	893.8	22.47375
7/20/2016	15:38:00	-11.55	-37.4	-64.275	328.375	28	72.49	8.1	40.06	11.1	8.67	1.25	916.9	22.66875
7/20/2016	15:39:00	-8.55	-34.05	-60.675	342.6875	29.1	71.9	8.11	40.06	10.9	8.65	1.25	919	23.05875
7/20/2016	15:40:00	-11.5	-36.55	-68.5875	331	27.3	70.39	8.05	40.06	11.1	8.76	1.31	913.5	22.99375
7/20/2016	15:41:00	-5.55	-28.45	-54.4125	343.0625	26.9	72.28	7.99	40.06	11.1	8.81	1.4	898.6	22.945
7/20/2016	15:42:00	-9	-34.3	-56.475	321.25	26.1	74.32	8.01	40.06	10.8	8.81	1.31	901.9	22.5225
7/20/2016	15:43:00	-6.1	-32	-57	335.375	27.5	73.8	7.97	40.06	11.4	8.94	1.37	893.1	23.01
7/20/2016	15:44:00	-5.8	-28.55	-44.175	350.125	28.7	73.05	7.94	40.06	10.9	8.96	1.15	893.1	22.3925
7/20/2016	15:45:00	-1.05	-23.05	-51.975	361.5625	27.9	74.38	8.14	40.06	11.6	8.65	1.21	919.1	22.63625
7/20/2016	15:46:00	-8.25	-33.1	-55.65	329.875	30	74.18	8.2	40.06	10.6	8.47	1.25	937	22.63625
7/20/2016	15:47:00	-6.65	-30.55	-60.1125	342.3125	29.5	72.78	8.15	40.06	11.1	8.48	1.25	930.1	22.3275
7/20/2016	15:48:00	-9.9	-34.8	-66.1125	337	28	72.88	8.11	40.06	10.7	8.68	1.33	917.4	22.23
7/20/2016	15:49:00	-4	-25.35	-48.1125	346.4375	27.1	73.75	8.05	40.06	11.3	8.74	1.4	909.5	22.5225
7/20/2016	15:50:00	-7.05	-30.8	-57.975	329.375	28.7	76.2	8.06	40.06	10.6	8.66	1.33	912.3	22.60375
7/20/2016	15:51:00	-3.5	-25.25	-63.4125	339.8125	30.3	75.6	8.07	40.06	11.4	8.71	1.4	912.3	22.945
7/20/2016	15:52:00	-3.8	-25.95	-59.8125	352.625	29.7	73.95	8.06	40.06	10.5	8.76	1.12	908.5	22.2625
7/20/2016	15:53:00	-2.95	-25.05	-61.1625	361.1875	28.1	73.85	8.16	40.06	11	8.57	1.12	919.3	22.96125
7/20/2016	15:54:00	-9.6	-32.4	-66.75	328.9375	25.3	74.24	8.2	40.06	10.3	8.54	1.18	927.2	22.63625
Average		-11.83	-36.53	-66.16	325.55	26.57	70.13	7.92	40.06	11.23	8.92	1.29	885.03	22.58

July 20, 2016		Pressures				Analyzers							Flows	
		Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow
Test#		PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT
Max		-1.1	-23.1	-44.2	361.6	30.3	76.2	8.2	40.1	12.3	9.3	1.4	937.0	23.1
Min		-32.1	-61.7	-87.7	254.9	21.8	64.2	7.7	40.1	10.3	8.5	1.1	842.7	22.2
Average		-11.8	-36.5	-66.2	325.6	26.6	70.1	7.9	40.1	11.2	8.9	1.3	885.0	22.6
Variance		68.92139	104.4443	100.4532	826.3675	3.395628	8.002532	0.018875	1.85E-27	0.170448	0.038743	0.008107	547.7903	0.0827055

TEST 6

Date	Time	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C
		FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258
7/20/2016	16:05:00	27.645	9.925	169.4363	133.155	7.91	474.6	14.25	22594.17	9567.454	92298	1360.125	1000.1	488.2	190.5	192.3
7/20/2016	16:06:00	27.81	9.98	170.6175	133.2	7.91875	475.125	14.25	22338.41	9455.094	87274	1363.875	999.3	486.7	190	191.2
7/20/2016	16:07:00	27.525	9.955	168.9525	133.155	7.91	474.6	14.25	22690.95	9556.218	92737	1365.875	1001.8	486	189.5	191.2
7/20/2016	16:08:00	27.675	10.11	170.5162	134.37	7.91375	474.825	14.25	22158.69	9455.094	86595	1364.875	999.7	486.9	189.5	191.2
7/20/2016	16:09:00	27.465	9.91	170.3363	134.46	7.92125	475.275	14.25	22953.63	9584.308	93852	1368.125	999.6	486	188.5	191.2
7/20/2016	16:10:00	27.765	9.98	170.6625	134.595	7.9225	475.35	14.25	22773.9	9584.308	88193	1367.25	999.7	488.2	189	191.2
7/20/2016	16:11:00	28.14	10.13	170.3363	133.965	7.92625	475.575	14.25	22953.63	9595.544	93164	1366	999.5	488.3	188.5	191.2
7/20/2016	16:12:00	27.705	9.88	170.1	134.64	7.9275	475.65	14.25	22421.36	9595.544	87247	1360.5	1001.3	487.5	189	191.2
7/20/2016	16:13:00	27.495	10.13	169.245	134.1	7.2625	435.75	14.25	22953.63	9719.14	93842	1361.375	1000.3	485.5	188	191.2
7/20/2016	16:14:00	27.795	9.665	169.9537	132.885	7.91125	474.675	14.25	22421.36	9612.398	86809	1363.25	1001.7	485	188	191.2
7/20/2016	16:15:00	27.705	9.87	169.29	132.12	7.9125	474.75	14.25	22773.9	9623.634	89126	1364.75	1001.7	484.5	187.5	190.1
7/20/2016	16:16:00	28.005	10	170.0437	132.66	5.495	329.7	14.25	22421.64	9500.038	86705	1367.375	1000	485.6	188	190.4
7/20/2016	16:17:00	27.585	9.73	169.1437	132.84	7.915	474.9	14.25	22863.76	9612.398	92019	1366.125	1001.6	486.2	187.5	190.4
7/20/2016	16:18:00	27.945	9.865	169.8075	133.38	7.91875	475.125	14.25	22601.09	9612.398	87772	1362.5	1000.4	486.8	188	190.4
7/20/2016	16:19:00	27.78	9.55	170.7525	132.795	7.91875	475.125	14.25	23126.44	9584.308	92608	1361.875	999.9	487.2	187.5	190.4
7/20/2016	16:20:00	27.735	10.14	171	134.46	7.91375	474.825	14.25	22331.5	9584.308	88081	1361.625	1000.7	488.6	188.5	190.4
7/20/2016	16:21:00	27.45	9.875	170.5725	133.83	7.92125	475.275	14.25	22863.76	9691.05	88362	1362.125	1002	488.4	188	190.4
7/20/2016	16:22:00	27.915	10.17	169.29	134.55	7.92375	475.425	14.25	22428.55	9466.33	87153	1364.375	1001.5	487.5	188	190.4
7/20/2016	16:23:00	27.675	9.895	170.145	132.795	7.91375	474.825	14.25	22773.9	9629.252	87608	1364.375	1001.9	486.8	187.5	190.2
7/20/2016	16:24:00	27.525	10.035	169.9988	133.92	7.91625	474.975	14.25	22338.41	9528.128	86769	1367.875	1001.6	486.5	187.5	190.2
7/20/2016	16:25:00	27.765	9.75	169.9537	133.38	7.92125	475.275	14.25	23043.49	9747.23	88444	1363.625	1002.2	486.8	187.5	189.1
7/20/2016	16:26:00	27.51	10	168.6712	133.425	7.92	475.2	14.25	22594.17	9539.364	88166	1362.75	1001.9	487.5	188	190.2
7/20/2016	16:27:00	27.69	9.86	169.0537	132.885	7.915	474.9	14.25	23126.44	9668.578	89424	1360.25	997.8	487.7	188	190.2
7/20/2016	16:28:00	27.885	10.05	169.0537	133.47	7.9225	475.35	14.25	22338.41	9561.836	87607	1357.375	1002	488.1	188.5	190.2
7/20/2016	16:29:00	27.885	9.535	170.1	132.345	7.9225	475.35	14.25	22953.63	9691.05	88784	1358.875	1000.5	487.9	188	190.2
7/20/2016	16:30:00	27.615	9.9	169.0087	133.425	7.92	475.2	14.25	22594.17	9578.69	86260	1362.25	1001.9	486.8	188.5	190.2
7/20/2016	16:31:00	27.6	10.075	169.6162	132.165	7.91625	474.975	14.25	22601.09	9685.432	87662	1363	1001.2	487.1	188	188.6
7/20/2016	16:32:00	27.465	9.9	170.6175	133.245	7.9125	474.75	14.25	22421.36	9578.69	86622	1371.5	1002.3	486.4	188	189.8
7/20/2016	16:33:00	27.93	9.755	169.9537	132.705	7.915	474.9	14.25	22863.76	9702.286	89029	1366.5	999	487.2	188	189.8
7/20/2016	16:34:00	27.81	9.995	170.5162	133.83	7.9225	475.35	14.25	22511.22	9589.926	87624	1359.875	1002.5	488.1	188	189.8
7/20/2016	16:35:00	27.84	10.22	170.0437	133.065	7.9225	475.35	14.25	22863.76	9713.522	88272	1355.75	999.9	489.3	188	189.8
7/20/2016	16:36:00	27.555	10.015	170.7525	134.235	7.91625	474.975	14.25	22511.22	9606.78	87306	1359.25	1003	489.1	188.5	189.8
7/20/2016	16:37:00	27.78	10.02	170.8088	133.56	7.9275	475.65	14.25	22421.36	9713.522	88173	1359.25	1000.1	488.9	188.5	190.9
7/20/2016	16:38:00	27.795	9.99	169.4812	133.56	7.92875	475.725	14.25	22421.36	9483.184	86497	1366.875	1002.9	487.9	188.5	189.7
7/20/2016	16:39:00	27.96	9.875	170.6175	132.255	7.92125	475.275	14.25	22690.95	9573.072	87176	1367.25	1001.8	487.9	188.5	189.7
7/20/2016	16:40:00	27.945	9.85	170.6175	133.38	7.59625	455.775	14.25	22428.55	9573.072	85916	1377	1001.4	486.2	188	189.7
7/20/2016	16:41:00	27.75	9.935	170.4713	132.48	7.91375	474.825	14.25	22684.04	9685.432	87664	1369	1001	487.7	188	189.7
7/20/2016	16:42:00	27.555	9.875	169.1437	133.965	7.925	475.5	14.25	22421.36	9578.69	87063	1371	1000.6	487.7	188.5	189.7
7/20/2016	16:43:00	27.72	9.805	169.8075	139.59	7.92	475.2	14.25	22863.76	9640.488	88192	1362.375	1002.6	488.4	188	189.7
7/20/2016	16:44:00	27.945	9.915	169.9537	140.895	7.92375	475.425	14.25	22511.22	9640.488	87664	1366.375	999.8	487.4	187	189.8
7/20/2016	16:45:00	27.675	9.73	170.5725	140.355	7.91875	475.125	14.25	22684.04	9533.746	87965	1362.125	999.6	487.9	186	189.8
7/20/2016	16:46:00	27.69	9.945	169.8075	141.57	7.825	469.5	14.25	22511.22	9533.746	87252	1367.625	999.3	488.4	185	188.8
7/20/2016	16:47:00	27.63	9.95	170.28	140.895	7.9275	475.65	14.25	22511.22	9595.544	87494	1368	1000.7	491.9	184.5	188.8
7/20/2016	16:48:00	28.05	10.085	170.1	142.2	7.93	475.8	14.25	22331.5	9595.544	85661	1368.25	999.5	493.1	184	188.8
7/20/2016	16:49:00	27.78	10	171.045	141.525	7.9175	475.05	14.25	22594.17	9696.668	88928	1362.125	1001.4	496.4	184	187.9
7/20/2016	16:50:00	27.57	10.09	168.8625	140.715	5.63625	338.175	14.25	22421.36	9589.926	87647	1363.625	1001.5	497.4	184	187.9
7/20/2016	16:51:00	27.87	9.77	170.7075	139.95	7.92	475.2	14.25	22690.95	9696.668	88821	1359.625	1002.6	498.3	184.5	188
7/20/2016	16:52:00	28.11	9.67	170.235	140.535	7.91875	475.125	14.25	22331.5	9589.926	86215	1361.125	999.6	497.5	184	188
7/20/2016	16:53:00	27.78	9.705	169.9988	139.725	7.91625	474.975	14.25	22421.36	9589.926	88291	1360.75	1001.5	498.8	184.5	188
7/20/2016	16:54:00	28.17	9.875	169.5263	139.68	7.9275	475.65	14.25	22421.36	9589.926	86660	1363.625	1000.6	497.4	184.5	188
7/20/2016	16:55:00	27.72	10.155	169.9088	140.31	7.91875	475.125	14.25	22511.22	9567.454	87825	1358.875	1004.1	497.9	184.5	188
7/20/2016	16:56:00	27.765	9.815	170.6175	140.895	7.92	475.2	14.25	22338.41	9567.454	86420	1363.625	1003	496.2	184.5	188
7/20/2016	16:57:00	27.66	10.065	169.9088	140.22	7.9225	475.35	14.25	22511.22	9595.544	87982	1356.25	1002.9	498.5	184.5	188
7/20/2016	16:58:00	27.825	9.85	169.38	141.885	7.9225	475.35	14.25	22863.76	9595.544	92719	1358	1002.3	498.5	184.5	188
7/20/2016	16:59:00	28.11	10.05	171.045	141.165	7.9225	475.35	14.25	22766.99	9634.87	88210	1352.375	1002.1	499.3	185	188
7/20/2016	17:00:00	27.72	10.09	169.9088	141.66	7.9275	475.65	14.25	22773.9	9629.252	90599	1358.125	1001.6	498.6	184.5	188
7/20/2016	17:01:00	27.78	9.64	170.6625	141.75	7.9275	475.65	14.25	22773.9	9528.128	87915	1355.375	1000.4	498.8	184.5	188
7/20/2016	17:02:00	27.9	9.86	169.0988	140.49	7.92375	475.425	14.25	23126.44	9668.578	93732	1362	1000.3	497.9	184.5	188
7/20/2016	17:03:00	27.87	10.025	169.0988	140.445	7.93125	475.875	14.25	22601.09	9544.982	87547	1358.125	1001.6	498.2	184.5	186.8
7/20/2016	17:04:00	27.57	9.69	169.5263	139.725	7.925	475.5	14.25	22856.85	9544.982	94146	1361.5	1000.6	497.3	184	186.8
7/20/2016	17:05:00	27.69	10.025	171.09	140.4	7.92	475.2	14.25	22773.9	9550.6	88441	1356.				

TEST 6		Incinerator	SDA Inlet	BH Inlet	BH dP	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PAC
Date	Time	mmH2O	mmH2O	mmH2O	mmH2O	PPM	PPM	%	%	PPM	%	%	PPM	Lbs/h
		PT-242A	PT-249	PT-615	PDT-622	AT-205COR	AT-213A	AT-213B	AT-213C	AT-259COR	AT-261	AT-263	AT-264	SC-PAC-FT
7/20/2016	16:05:00	-28	-57.3	-65.925	258.1875	25.4	74.75	7.99	40.06	11.4	8.79	1.33	895.2	22.88
7/20/2016	16:06:00	-5.2	-29.9	-52.4625	326.3125	25.2	76.2	7.96	40.06	10.7	8.72	1.31	892.4	22.88
7/20/2016	16:07:00	-28.8	-59.55	-65.85	263.625	26.6	74.88	7.91	40.06	11.7	8.82	1.33	885.8	22.6525
7/20/2016	16:08:00	-5.65	-30.65	-47.5875	352.9375	28.6	74.46	8.09	40.06	10.8	8.64	1.15	910	22.24625
7/20/2016	16:09:00	-28.85	-59.6	-71.325	256.6875	29.7	74.18	8.12	40.06	11.7	8.55	1.28	917.8	22.4575
7/20/2016	16:10:00	-5.7	-28.25	-63.9	335.25	31.3	71.63	8.15	40.06	10.6	8.44	1.22	924.2	22.21375
7/20/2016	16:11:00	-27.3	-55.2	-74.475	262.875	29.9	69.92	8.11	40.06	11.3	8.51	1.3	920.4	22.76625
7/20/2016	16:12:00	-6.05	-29.65	-50.325	337.875	27.2	70.67	8.06	40.06	10.6	8.66	1.33	909.5	22.275
7/20/2016	16:13:00	-24.2	-45.05	-75.075	290.5625	26.4	71.64	8.05	40.06	11.6	8.69	1.35	903.8	22.945
7/20/2016	16:14:00	-4.8	-27.25	-51	329.4375	25.8	72.87	8.02	40.06	10.9	8.65	1.33	902.5	22.3925
7/20/2016	16:15:00	-8.85	-32.8	-66.975	337.6875	25.5	71.92	7.97	40.06	11.2	8.75	1.33	896.9	22.8475
7/20/2016	16:16:00	-2.9	-26.9	-45	356.625	25.8	73.24	8.12	40.06	10.8	8.69	1.12	908.8	22.24625
7/20/2016	16:17:00	-18.85	-43.8	-81.75	311	25.7	74.33	8.2	40.06	11.4	8.55	1.3	918.2	22.2625
7/20/2016	16:18:00	-7.7	-33.1	-60.9	336.25	26.7	73.86	8.21	40.06	10.7	8.48	1.21	924	22.89625
7/20/2016	16:19:00	-23.6	-52.2	-80.0625	288.125	26.5	72.99	8.06	40.06	11.4	8.61	1.33	912.8	22.27875
7/20/2016	16:20:00	-6.2	-30.55	-58.0875	341.625	26.4	74.85	7.99	40.06	11.6	8.79	1.37	899.1	22.86375
7/20/2016	16:21:00	-9.7	-35.45	-73.9875	319.5625	26.5	76.26	8.03	40.06	12	8.76	1.33	899.1	22.295
7/20/2016	16:22:00	-3.3	-28.9	-51.3375	333.75	27.5	75.79	8.03	40.06	11.8	8.66	1.33	902.7	22.60375
7/20/2016	16:23:00	-7.65	-33.9	-59.475	345.75	26.9	74.85	7.99	40.06	12	8.65	1.28	901.2	22.9125
7/20/2016	16:24:00	-4	-26.45	-55.05	358.375	27.2	75.07	8.12	40.06	11.3	8.47	1.06	915.4	22.945
7/20/2016	16:25:00	-15.4	-42.75	-81.8625	322	28.2	74.76	8.17	40.06	11.6	8.47	1.31	921.9	22.23
7/20/2016	16:26:00	-8.45	-32.95	-66.675	337.9375	28.8	73.4	8.24	40.06	11.1	8.46	1.18	933.1	22.53875
7/20/2016	16:27:00	-17.3	-40.7	-81.3	323.6875	24.7	71.4	8.04	40.06	11.2	8.64	1.31	913.7	23.02625
7/20/2016	16:28:00	-8.95	-32.75	-64.275	339.125	24.2	72.42	7.97	40.06	11.2	8.74	1.37	899	22.79875
7/20/2016	16:29:00	-13.2	-39	-69.8625	316.1875	22.6	77.1	7.99	40.06	11.4	8.77	1.35	895.6	22.34375
7/20/2016	16:30:00	-7.55	-30.65	-60.4875	331.75	22.4	77.62	7.93	40.06	11.7	8.79	1.37	891.8	22.2625
7/20/2016	16:31:00	-9.3	-31.7	-63.6375	346.5625	23.8	76.36	7.9	40.06	12	8.91	1.18	883.5	22.295
7/20/2016	16:32:00	-3.5	-27.6	-53.6625	356.875	25.8	78.54	8.09	40.06	11.9	8.73	1.15	904.5	22.815
7/20/2016	16:33:00	-15.55	-40.05	-66.9375	322.75	28.9	78.99	8.13	40.06	11.7	8.66	1.31	912.4	22.88
7/20/2016	16:34:00	-7.4	-31.35	-54.6375	338.8125	30	76.41	8.15	40.06	11.2	8.6	1.22	917.4	22.99375
7/20/2016	16:35:00	-12.35	-39.35	-68.5875	327.1875	26.8	75.53	8.08	40.06	11.3	8.68	1.31	915.3	22.18125
7/20/2016	16:36:00	-5.85	-29.6	-61.05	340.6875	24.9	75.34	7.97	40.06	11.6	8.81	1.4	899	23.01
7/20/2016	16:37:00	-10.6	-35.75	-80.85	319.5625	25.9	76.45	7.92	40.06	11.1	8.65	1.3	895.5	22.1975
7/20/2016	16:38:00	-6.45	-29.2	-56.475	333.3125	25.9	75.92	7.85	40.06	11.5	8.68	1.37	892.5	22.9775
7/20/2016	16:39:00	-6.55	-27.4	-58.6875	349.4375	28.8	76.8	8.02	40.06	11.3	8.82	1.15	902.2	22.18125
7/20/2016	16:40:00	-3.7	-26	-47.475	359.0625	29.2	77.34	8.1	40.06	12	8.63	1.18	912.8	22.76625
7/20/2016	16:41:00	-12.15	-36.55	-63	328.4375	33.7	76.24	8.19	40.06	11.1	8.54	1.25	928.2	23.01
7/20/2016	16:42:00	-6.2	-32.3	-53.25	341.6875	30.4	72.61	8.1	40.06	11.1	8.56	1.25	920.6	22.44125
7/20/2016	16:43:00	-10.25	-35.65	-68.2125	330.375	27.2	72.16	8.04	40.06	10.8	8.66	1.31	916.2	22.96125
7/20/2016	16:44:00	-5.2	-29.15	-70.2	343.1875	26.1	73.96	7.98	40.06	11.3	8.83	1.41	896.2	22.36
7/20/2016	16:45:00	-7.65	-31.6	-65.5875	320.9375	24.9	74.04	8	40.06	10.9	8.79	1.31	892.5	22.1975
7/20/2016	16:46:00	-5.35	-29.25	-64.425	334.5	25.8	72.61	7.93	40.06	11.6	8.75	1.35	886.3	22.34375
7/20/2016	16:47:00	-8.1	-30.9	-60.4875	349.125	27	72.17	7.89	40.06	11.1	8.79	1.12	888.5	22.76625
7/20/2016	16:48:00	-1.75	-24.2	-60.6375	360.6875	27.1	73	8.14	40.06	11.5	8.62	1.18	913.3	22.1975
7/20/2016	16:49:00	-11.3	-35.5	-60.1875	328.375	26.2	72.61	8.21	40.06	10.9	8.51	1.21	923.6	22.57125
7/20/2016	16:50:00	-9.55	-34.7	-55.8375	340.9375	25.4	71.35	8.16	40.06	11.2	8.51	1.22	916.3	22.8475
7/20/2016	16:51:00	-9.05	-32.65	-60.075	336.875	23.6	71.63	8	40.06	10.5	8.63	1.35	898.4	22.23
7/20/2016	16:52:00	-5.7	-30.6	-56.1375	347	23	73.36	7.95	40.06	11.2	8.72	1.41	890.3	22.31125
7/20/2016	16:53:00	-8.05	-33.05	-67.3125	327.0625	22.6	77.25	7.97	40.06	10.5	8.66	1.33	893.9	22.27875
7/20/2016	16:54:00	-10.45	-41.95	-63.075	302.75	24.3	77.13	7.96	40.06	11.3	8.82	1.4	891.4	22.9775
7/20/2016	16:55:00	-7.35	-30.9	-67.0125	353.5625	24.8	77.56	8.04	40.06	10.8	8.89	1.12	899.2	22.945
7/20/2016	16:56:00	-25	-54.7	-63.375	291	23.5	78.49	8.06	40.06	11.1	8.6	1.08	906.5	22.70125
7/20/2016	16:57:00	-11.35	-35.8	-59.8875	331.875	22.9	78.35	8.1	40.06	10.6	8.55	1.17	914.6	22.8475
7/20/2016	16:58:00	-27.25	-57.25	-66.0375	277.8125	22.2	76.38	8.06	40.06	11.2	8.65	1.25	912.3	22.4575
7/20/2016	16:59:00	-9.5	-34.25	-66.9375	329.9375	22.2	76.41	8.04	40.06	10.4	8.75	1.33	909.7	22.23
7/20/2016	17:00:00	-31.7	-59.95	-78.7125	274.0625	22.2	78.37	7.93	40.06	11.4	8.87	1.4	892.2	22.18125
7/20/2016	17:01:00	-10.15	-34.65	-69.7125	323.75	21.7	79.49	7.86	40.06	10.8	8.86	1.31	888.9	22.57125
7/20/2016	17:02:00	-30.25	-59.1	-79.6125	266.25	22.6	79.45	7.87	40.06	11.7	8.92	1.37	886.6	22.44125
7/20/2016	17:03:00	-8.25	-29.55	-60.525	352.9375	24.4	80.18	8	40.06	10.8	8.82	1.18	898.4	22.44125
7/20/2016	17:04:00	-31.65	-60.45	-79.425	263	23.6	80.26	8.04	40.06	11.4	8.71	1.28	903.9	22.555
7/20/2016	17:05:00	-12.2	-37.8	-66.075	330.9375	23.6	79.74	8.03	40.06	10.9	8.71	1.21	906	22.23
Average		-11.88	-36.98	-64.14	324.50	25.94	75.14	8.04	40.06	11.24	8.68	1.28	904.98	22.57

July 20, 2016

Test#	Pressures				Analyzers								Flows
	Incinerator	SDA Inlet	SD Outlet	Baghouse	CO	HCl	CO2	H2O	THC	O2	Opacity	SO2	PACFlow
	PT-242A	PT-249	PT-615	PDT-622	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264	SC-PAC-FT
Max	-1.8	-24.2	-45.0	360.7	33.7	80.3	8.2	40.1	12.0	8.9	1.4	933.1	23.0
Min	-31.7	-60.5	-81.9	256.7	21.7	69.9	7.9	40.1	10.4	8.4	1.1	883.5	22.2
Average	-11.9	-37.0	-64.1	324.5	25.9	75.1	8.0	40.1	11.2	8.7	1.3	905.0	22.6
Variance	69.45525	104.7543	85.02251	783.9182	6.350486	6.856213	0.008823	1.85E-27	0.174011	0.014703	0.007931	146.3547	0.0882699