



## Report:

# Mercury Emission Testing at the Clean Harbors Sarnia Facility

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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.

Five pairs of tube samples were collected for mercury during one day of testing on February 23, 2022. However, although the test results were at the typical mercury levels historically reported for the facility, none of the tube pairs met the paired trap agreement criteria stated in the sampling method indicating that a problem occurred during the sampling and/or analysis of the test samples.

ORTECH and Clean Harbors arranged to repeat the testing program after a maintenance shutdown at the facility. Four pairs of tube samples were collected for mercury during one day of testing on April 7, 2022. The mercury results were higher than expected and as a result all four spike tubes were outside of the spike range required by the sampling 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 closest spike tube (800 ng) was well below the acceptable spike range of 50 to 150 percent (1947 ng to 5841 ng) of the mass collected.

Since the testing was conducted immediately following a facility shutdown and the mercury concentrations were higher than expected, ORTECH and Clean Harbors arranged to repeat the testing program with an expanded spike tube range as soon as practical. Six pairs of tube samples were collected for mercury during one day of testing on May 25, 2022. The mercury results were again higher than expected and as a result all six spike tubes were outside of the spike range required by the sampling method.

This report details the results of all three sampling events. The results for the February 23, 2022, April 7, 2022 and May 25, 2022 testing programs are detailed in Appendix 1 to Appendix 3, respectively.

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 mercury concentration adjusted to 11% oxygen.

The average mercury emission data from each test program is presented below. Note that results for all of the tube pairs sampled during each testing program are included in the average calculations regardless of whether they met the paired trap agreement criteria of the sampling method or not.

| Sampling Date     | Mercury Dry Reference Concentration ( $\mu\text{g}/\text{Rm}^3$ )* | Mercury Dry Adjusted Concentration ( $\mu\text{g}/\text{Rm}^3$ )** |
|-------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| February 23, 2022 | 4.10                                                               | 3.37                                                               |
| April 7, 2022     | 62.0                                                               | 52.2                                                               |
| May 25, 2022      | 141                                                                | 130                                                                |

\* reference conditions are 25°C and 1 atmosphere

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

## 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.

Five pairs of tube samples were collected for mercury during one day of testing on February 23, 2022. However, although the test results were at the typical mercury levels historically reported for the facility, none of the tube pairs met the paired trap agreement criteria stated in the sampling method indicating that a problem occurred during the sampling and/or analysis of the test samples.

ORTECH and Clean Harbors arranged to repeat the testing program after a maintenance shutdown at the facility. Four pairs of tube samples were collected for mercury during one day of testing on April 7, 2022. The mercury results were higher than expected and as a result all four spike tubes were outside of the spike range required by the sampling 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 closest spike tube (800 ng) was well below the acceptable spike range of 50 to 150 percent (1947 ng to 5841 ng) of the mass collected.

Since the testing was conducted immediately following a facility shutdown and the mercury concentrations were higher than expected, ORTECH and Clean Harbors arranged to repeat the testing program with an expanded spike tube range as soon as practical. Six pairs of tube samples were collected for mercury during one day of testing on May 25, 2022. The mercury results were again higher than expected and as a result all six spike tubes were outside of the spike range required by the sampling method.

This report details the results of all three sampling events. The results for the February 23, 2022, April 7, 2022 and May 25, 2022 tests are detailed in Appendix 1 to Appendix 3, respectively.

## 2. SAMPLING LOCATION

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

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

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

### 3. SAMPLING METHODOLOGY

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

ORTECH used a dual probe assembly so that the mercury traps are positioned 1 to 2 inches apart. Each probe was heated to approximately 135°C to prevent condensation of the stack gas on the sampling media. The mercury traps used for sampling are specially designed for use at wet sources; each tube had an extended section of glass to allow for the heating of the stack gas before it comes 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, multiple spike 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.

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 4.

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 5.

#### **4. ANALYSIS METHODOLOGY**

At the end of each 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. Each tube is split into two sections which are analyzed separately to determine if mercury breakthrough occurs; none of the tube samples from any of the three sampling events exhibited mercury breakthrough.

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 reports for total vapour phase mercury are provided in Appendix 6.



## 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.

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. Note all of the traps collected during the three test programs had concentrations greater than  $1 \mu\text{g}/\text{Rm}^3$ .

None of the paired traps collected during the February 23, 2022 testing program met the paired trap agreement criteria stated in US EPA Method 30B. Due to an error at the analytical laboratory two of the tube pairs were outside of the calibration range of the instrument and the data was flagged in the analytical report. Note all of the data for this test program has been reported in Appendix 1 and included in the average mercury calculations.

During the April 7, 2022 testing program, three of the four tests met the paired trap agreement. Test No. 3 was slightly outside of the  $\leq 10\%$  relative deviation required by the sampling method; the paired trap agreement for Test No. 3 was 10.3%. Note all of the data for this test program has been reported in Appendix 2 and all four tests were included in the average mercury calculations.

During the May 25, 2022 testing program, all six tests met the paired trap agreement detailed in the sampling method. The paired trap agreement ranged from 0.7% for Test No. 4 to 5.3% for Test No. 6.

The mercury traps were ordered approximately two weeks before the field testing program from Ohio Lumex. Each test included a pre-spiked mercury trap which was spiked with a known quantity of mercury ranging from 100 ng to 2200 ng and an unspiked mercury trap. ORTECH determined the mercury spiking levels based on the average mercury concentrations determined during previous testing programs which is typically in the  $2 \mu\text{g}/\text{Rm}^3$  to  $10 \mu\text{g}/\text{Rm}^3$  range.

US EPA Method 30B states the recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling. The field spike recovery provides specific verification of the performance of the combined sampling and analytical approach for the test program. US EPA Method 30B requires the spike recovery to be between 85% and 115%.

The pre-spiked mercury traps for the February 23, 2022 testing ranged from 100 ng to 800 ng. The pre-spiked mercury trap for Test No. 2 (250 ng) was used for spike recovery determination as the concentration best fit the requirements of the QA/QC criteria. The average mercury collected for the five tests (269 ng) was within  $\pm 50\%$  of the Test No. 2 spike concentration. The spike recovery for Test No. 2 was 122% which is outside of the spike recovery criteria of 85% to 115%.

Based on historical data and the results from the February testing program, the pre-spiked mercury traps for the April 7, 2022 test program ranged from 150 ng to 800 ng. None of the pre-spiked mercury traps met the QA/QC criteria. The average mercury collected for the four tests was 3894 ng. The closest spike tube (800 ng) was well below the acceptable spike range of 50 to 150 percent (1947 ng to 5841 ng) of the mass collected.

For the May 25, 2022 testing program, ORTECH expanded the range of the pre-spiked mercury traps to 150 ng to 2200 ng. However, none of the pre-spiked mercury traps met the QA/QC criteria. The average mercury collected for the six tests was 8735 ng. The closest spike tube (2200 ng) was well below the acceptable spike range of 50 to 150 percent (4367 ng to 13102 ng) of the mass collected.

## 6. RESULTS

Five pairs of tube samples were collected for mercury during one day of testing on February 23, 2022. The testing was repeated on April 7, 2022 where five pairs of tube samples were collected and again on May 25, 2022 where six pairs of tube samples were collected. The results for the February 23, 2022, April 7, 2022 and May 25, 2022 testing programs are detailed in Appendix 1 to Appendix 3, respectively.

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 2200 ng. 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 sampling schedule is summarized in Table 1 (Appendix 1 to Appendix 3). This information includes test dates and times for each of the mercury test runs performed. All test times match plant time.

Mercury emission sample analyses for each test are provided in Table 2 (Appendix 1 to Appendix 3). Mercury was detected in Section 1 of each trap in quantities greater than the method detection limit in all of the traps. Mercury was also collected in Section 2 in quantities greater than the method detection limit for most of the traps. However, the amount detected in Section 2 was less than 1% of the mercury collected in Section 1 in all traps, indicating that there was no breakthrough or potential loss of mercury. US EPA Method 30B recommends 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 all of the tests performed during each sampling event. 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.

Note that results for all of the tube pairs sampled during each testing program are included in the average calculations regardless of whether they met the paired trap agreement criteria of the sampling method or not.

The unspiked and pre-spiked mercury traps were ordered approximately two weeks before each field testing program from Ohio Lumex. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 2200 ng. The spiked mercury trap recovery calculations for all of the tests are shown in Table 3 (Appendix 1 to Appendix 3) regardless of whether they met the spiking range criteria stated in the sampling method.

The average mercury emission data from each test program is presented below. Note that results for all of the tube pairs sampled during each testing program are included in the average calculations regardless of whether they met the paired trap agreement criteria of the sampling method or not.

| Sampling Date     | Mercury Dry Reference Concentration ( $\mu\text{g}/\text{Rm}^3$ )* | Mercury Dry Adjusted Concentration ( $\mu\text{g}/\text{Rm}^3$ )** |
|-------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| February 23, 2022 | 4.10                                                               | 3.37                                                               |
| April 7, 2022     | 62.0                                                               | 52.2                                                               |
| May 25, 2022      | 141                                                                | 130                                                                |

\* reference conditions are  $25^\circ\text{C}$  and 1 atmosphere

\*\* at  $25^\circ\text{C}$  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.

## 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 7 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 (O<sub>2</sub> and SO<sub>2</sub>)
- stack gas opacity
- carbon injection rate

During the emission testing program, powdered activated carbon (PAC) was being injected. The average PAC injection rate is summarized below for each test program:

| Sampling Date     | PAC Injection Rate<br>(lb/h) |
|-------------------|------------------------------|
| February 23, 2022 | 25.9                         |
| April 7, 2022     | 23.0                         |
| May 25, 2022      | 34.4                         |

**APPENDIX 1**

**Data Tables  
for the February 23, 2022 Testing Program  
(3 pages)**

**TABLE 1**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Test Schedule**

| Test Number | Test Date         | Sampling Period |        | Sampling Time |
|-------------|-------------------|-----------------|--------|---------------|
|             |                   | Start           | Finish | min           |
| 1           | February 23, 2022 | 10:20           | 11:20  | 60            |
| 2           | February 23, 2022 | 11:30           | 12:30  | 60            |
| 3           | February 23, 2022 | 12:40           | 13:40  | 60            |
| 4           | February 23, 2022 | 13:52           | 14:52  | 60            |
| 5           | February 23, 2022 | 15:10           | 16:10  | 60            |

Note: All test times match plant time.

**TABLE 2**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Emission Data**

| Test/Run No. | Tube ID | Mercury Collected |              | Total | Dry Gas Volume Sampled Rm <sup>3</sup> * | Mercury Concentration              |                                    | Paired Trap Agreement % |
|--------------|---------|-------------------|--------------|-------|------------------------------------------|------------------------------------|------------------------------------|-------------------------|
|              |         | Section 1 ng      | Section 2 ng |       |                                          | Dry Reference µg/Rm <sup>3</sup> * | Dry Adjusted µg/Rm <sup>3</sup> ** |                         |
| 1            | A ***   | 270.3             | 1.6          | 272   | 0.0524                                   | 5.19                               | 4.41                               | -                       |
|              | B       | 158.3             | 0.4          | 159   | 0.0527                                   | 3.01                               | 2.56                               | -                       |
|              | Average |                   |              |       |                                          | 4.10                               | 3.49                               | 26.5                    |
| 2            | A ***   | 234.1             | 1.1          | 235   | 0.0588                                   | 4.00                               | 3.42                               | -                       |
|              | B       | 239.4             | 0.8          | 240   | 0.0784                                   | 3.06                               | 2.62                               | -                       |
|              | Average |                   |              |       |                                          | 3.53                               | 3.02                               | 13.3                    |
| 3            | A ***   | 312.0             | 0.8          | 313   | 0.0674                                   | 4.64                               | 3.83                               | -                       |
|              | B       | 162.8             | 0.4          | 163   | 0.0808                                   | 2.02                               | 1.67                               | -                       |
|              | Average |                   |              |       |                                          | 3.33                               | 2.75                               | 39.3                    |
| 4            | A ***   | 208.0             | 2.8          | 211   | 0.0672                                   | 3.14                               | 2.66                               | -                       |
|              | B       | NA                | NA           | NA    | 0.0607                                   | NA                                 | NA                                 | -                       |
|              | Average |                   |              |       |                                          | 3.14                               | 2.66                               | NA                      |
| 5            | A ***   | 529.0             | 1.1          | 530   | 0.0713                                   | 7.43                               | 6.18                               | -                       |
|              | B       | 300.2             | 1.0          | 301   | 0.0667                                   | 4.51                               | 3.76                               | -                       |
|              | Average |                   |              |       |                                          | 5.97                               | 4.97                               | 24.4                    |
| Average      |         |                   | 269          |       |                                          | 4.01                               | 3.37                               |                         |

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

NA - No analysis available due to a mixup in the tubes during sampling.

\* 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.



**TABLE 3**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Spike Tube Recovery**

| Test No. | Spike Concentration Ordered<br>ng | Total Collected<br>ng | Spike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Total Collected<br>ng | Unspike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Spike Concentration<br>ng/Rm <sup>3</sup> * | Spike Recovery<br>% |
|----------|-----------------------------------|-----------------------|------------------------------------------------|-----------------------------------------------|-----------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------|
| 1        | 100                               | 372                   | 0.0524                                         | 7099                                          | 159                   | 0.0527                                           | 3014                                          | 4085                                        | 214                 |
| 2        | 250                               | 485                   | 0.0588                                         | 8253                                          | 240                   | 0.0784                                           | 3063                                          | 5190                                        | 122                 |
| 3        | 400                               | 713                   | 0.0674                                         | 10569                                         | 163                   | 0.0808                                           | 2019                                          | 8550                                        | 144                 |
| 4        | 800                               | 1011                  | 0.0672                                         | 15038                                         | NA                    | 0.0607                                           | NA                                            | NA                                          | NA                  |
| 5        | 600                               | 1130                  | 0.0713                                         | 15843                                         | 301                   | 0.0667                                           | 4515                                          | 11328                                       | 135                 |

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations are listed in the table above.

**APPENDIX 2**

**Data Tables  
for the April 7, 2022 Testing Program  
(3 pages)**

**TABLE 1**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Test Schedule**

| Test Number | Test Date     | Sampling Period |        | Sampling Time |
|-------------|---------------|-----------------|--------|---------------|
|             |               | Start           | Finish | min           |
| 1           | April 7, 2022 | 10:37           | 11:37  | 60            |
| 2           | April 7, 2022 | 11:58           | 12:58  | 60            |
| 3           | April 7, 2022 | 13:15           | 14:15  | 60            |
| 4           | April 7, 2022 | 14:28           | 15:28  | 60            |

Note: All test times match plant time.

**TABLE 2**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Emission Data**

| Test/Run No. | Tube ID | Mercury Collected |              | Total ng | Dry Gas Volume Sampled Rm <sup>3</sup> * | Mercury Concentration                     |                                           | Paired Trap Agreement % |
|--------------|---------|-------------------|--------------|----------|------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------|
|              |         | Section 1 ng      | Section 2 ng |          |                                          | Dry Reference $\mu\text{g}/\text{Rm}^3$ * | Dry Adjusted $\mu\text{g}/\text{Rm}^3$ ** |                         |
| 1            | A ***   | 4013              | 10.5         | 4024     | 0.0694                                   | 58.0                                      | 48.5                                      | -                       |
|              | B       | 3623              | 2.6          | 3626     | 0.0628                                   | 57.7                                      | 48.3                                      | -                       |
|              | Average |                   |              |          |                                          | 57.8                                      | 48.4                                      | 0.2                     |
| 2            | A       | 4187              | 5.1          | 4192     | 0.0606                                   | 69.2                                      | 58.2                                      | -                       |
|              | B ***   | 3984              | 8.2          | 3992     | 0.0592                                   | 67.5                                      | 56.8                                      | -                       |
|              | Average |                   |              |          |                                          | 68.3                                      | 57.5                                      | 1.2                     |
| 3            | A ***   | 4056              | 2.0          | 4058     | 0.0653                                   | 62.1                                      | 52.5                                      | -                       |
|              | B       | 3135              | 1.1          | 3136     | 0.0621                                   | 50.5                                      | 42.7                                      | -                       |
|              | Average |                   |              |          |                                          | 56.3                                      | 47.6                                      | 10.3                    |
| 4            | A       | 4033              | 3.8          | 4037     | 0.0633                                   | 63.8                                      | 53.9                                      | -                       |
|              | B ***   | 4083              | 3.5          | 4087     | 0.0610                                   | 67.0                                      | 56.6                                      | -                       |
|              | Average |                   |              |          |                                          | 65.4                                      | 55.2                                      | 2.5                     |
| Average      |         |                   | 3894         |          |                                          | 62.0                                      | 52.2                                      |                         |

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

\* At 25°C and 1 atmosphere

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

\*\*\* Spiked tube, mercury collected corrected for the original spike.

**TABLE 3**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Spike Tube Recovery**

| Test No. | Spike Concentration Ordered<br>ng | Total Collected<br>ng | Spike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Total Collected<br>ng | Unspike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Spike Concentration<br>ng/Rm <sup>3</sup> * | Spike Recovery<br>% |
|----------|-----------------------------------|-----------------------|------------------------------------------------|-----------------------------------------------|-----------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------|
| 1        | 150                               | 4174                  | 0.0694                                         | 60137                                         | 3626                  | 0.0628                                           | 57708                                         | 2429                                        | 112                 |
| 2        | 300                               | 4292                  | 0.0592                                         | 72555                                         | 4192                  | 0.0606                                           | 69158                                         | 3397                                        | 67.0                |
| 3        | 500                               | 4558                  | 0.0653                                         | 69794                                         | 3136                  | 0.0621                                           | 50491                                         | 19304                                       | 252                 |
| 4        | 800                               | 4887                  | 0.0610                                         | 80149                                         | 4037                  | 0.0633                                           | 63763                                         | 16386                                       | 125                 |

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations are listed in the table above.

**APPENDIX 3**

**Data Tables  
for the May 25, 2022 Testing Program  
(3 pages)**

**TABLE 1**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Test Schedule**

| Test Number | Test Date    | Sampling Period |        | Sampling Time |
|-------------|--------------|-----------------|--------|---------------|
|             |              | Start           | Finish | min           |
| 1           | May 25, 2022 | 10:04           | 11:04  | 60            |
| 2           | May 25, 2022 | 11:19           | 12:19  | 60            |
| 3           | May 25, 2022 | 12:37           | 13:37  | 60            |
| 4           | May 25, 2022 | 14:00           | 15:00  | 60            |
| 5           | May 25, 2022 | 15:35           | 16:35  | 60            |
| 6           | May 25, 2022 | 16:49           | 17:49  | 60            |

Note: All test times match plant time.



**TABLE 2**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Emission Data**

| Test/Run No. | Tube ID | Mercury Collected |              | Total ng | Dry Gas Volume Sampled Rm <sup>3</sup> * | Mercury Concentration                     |                                           | Paired Trap Agreement % |
|--------------|---------|-------------------|--------------|----------|------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------|
|              |         | Section 1 ng      | Section 2 ng |          |                                          | Dry Reference $\mu\text{g}/\text{Rm}^3$ * | Dry Adjusted $\mu\text{g}/\text{Rm}^3$ ** |                         |
| 1            | A       | 8645              | 13.2         | 8658     | 0.0675                                   | 128                                       | 119                                       | -                       |
|              | B ***   | 8640              | 3.0          | 8643     | 0.0615                                   | 141                                       | 130                                       | -                       |
|              | Average |                   |              |          |                                          | 134                                       | 124                                       | 4.6                     |
| 2            | A ***   | 9756              | 3.5          | 9760     | 0.0623                                   | 157                                       | 144                                       | -                       |
|              | B       | 8879              | 2.9          | 8882     | 0.0576                                   | 154                                       | 141                                       | -                       |
|              | Average |                   |              |          |                                          | 155                                       | 142                                       | 0.8                     |
| 3            | A       | 8234              | 8.9          | 8243     | 0.0611                                   | 135                                       | 126                                       | -                       |
|              | B ***   | 8833              | 9.6          | 8843     | 0.0630                                   | 140                                       | 131                                       | -                       |
|              | Average |                   |              |          |                                          | 138                                       | 129                                       | 2.0                     |
| 4            | A ***   | 8607              | <0.6         | 8608     | 0.0651                                   | 132                                       | 123                                       | -                       |
|              | B       | 7837              | 0.8          | 7838     | 0.0585                                   | 134                                       | 125                                       | -                       |
|              | Average |                   |              |          |                                          | 133                                       | 124                                       | 0.7                     |
| 5            | A       | 9345              | <0.6         | 9346     | 0.0629                                   | 149                                       | 134                                       | -                       |
|              | B ***   | 9100              | 8.8          | 9109     | 0.0601                                   | 151                                       | 136                                       | -                       |
|              | Average |                   |              |          |                                          | 150                                       | 135                                       | 0.9                     |
| 6            | A ***   | 8470              | 8.1          | 8478     | 0.0653                                   | 130                                       | 119                                       | -                       |
|              | B       | 8412              | 1.6          | 8414     | 0.0583                                   | 144                                       | 132                                       | -                       |
|              | Average |                   |              |          |                                          | 137                                       | 126                                       | 5.3                     |
| Average      |         |                   | 8735         |          |                                          | 141                                       | 130                                       |                         |

Note: Concentration data is only reported for three tests as required by US EPA Method 308

\* 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.

**TABLE 3**  
**Clean Harbors, Sarnia**  
**Incinerator Exhaust Stack**  
**Mercury Spike Tube Recovery**

| Test No. | Spike Concentration Ordered<br>ng | Total Collected<br>ng | Spike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Total Collected<br>ng | Unspike Tube Volume Sampled<br>Rm <sup>3</sup> * | Mercury Concentration<br>ng/Rm <sup>3</sup> * | Spike Concentration<br>ng/Rm <sup>3</sup> * | Spike Recovery<br>% |
|----------|-----------------------------------|-----------------------|------------------------------------------------|-----------------------------------------------|-----------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------|
| 1        | 250                               | 8893                  | 0.0615                                         | 144666                                        | 8658                  | 0.0675                                           | 128308                                        | 16358                                       | 402                 |
| 2        | 150                               | 9910                  | 0.0623                                         | 159016                                        | 8882                  | 0.0576                                           | 154113                                        | 4902                                        | 204                 |
| 3        | 400                               | 9243                  | 0.0630                                         | 146792                                        | 8243                  | 0.0611                                           | 134984                                        | 11808                                       | 186                 |
| 4        | 600                               | 9208                  | 0.0651                                         | 141359                                        | 7838                  | 0.0585                                           | 133984                                        | 7374                                        | 80.1                |
| 5        | 1000                              | 10109                 | 0.0601                                         | 168067                                        | 9346                  | 0.0629                                           | 148691                                        | 19376                                       | 117                 |
| 6        | 2200                              | 10678                 | 0.0653                                         | 163408                                        | 8414                  | 0.0583                                           | 144318                                        | 19090                                       | 56.7                |

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations are listed in the table above.

**APPENDIX 4**

**Mercury Field Data Sheets  
(18 pages)**

**Clean Harbors, Sarnia**  
**Mercury Tube Sampling Train**  
**Sample Volume Corrections**

**Incinerator Exhaust Stack**

| Test # - Tube<br>(tube pair field ID) | DGMCF | Initial DGM<br>Reading<br>(L) | Final DGM<br>Reading<br>(L) | Actual Vol.<br>Sampled<br>(L) | Barometric<br>Pressure<br>(in Hg) | Average DGM<br>Pressure<br>del H (in H <sub>2</sub> O) | Average DGM<br>Temperature<br>(°C) | Corrected<br>Volume<br>(L)* | Corrected<br>Volume<br>(Rm <sup>3</sup> )* |
|---------------------------------------|-------|-------------------------------|-----------------------------|-------------------------------|-----------------------------------|--------------------------------------------------------|------------------------------------|-----------------------------|--------------------------------------------|
| T1A OL618358 (Spiked)<br>T1B OL632987 | 1.018 | 3150.00                       | 3197.40                     | 47.40                         | 29.7                              | 1.5                                                    | 0.0                                | 52.39                       | 0.0524                                     |
|                                       | 0.998 | 8583.50                       | 8632.20                     | 48.70                         | 29.7                              | 0.6                                                    | 0.0                                | 52.65                       | 0.0527                                     |
| T2A OL528932 (Spiked)<br>T2B OL632815 | 1.018 | 3205.70                       | 3258.80                     | 53.10                         | 29.7                              | 1.8                                                    | 0.0                                | 58.79                       | 0.0588                                     |
|                                       | 0.998 | 8647.60                       | 8720.00                     | 72.40                         | 29.7                              | 1.0                                                    | 0.0                                | 78.43                       | 0.0784                                     |
| T3A OL569034 (Spiked)<br>T3B OL632842 | 1.018 | 3277.20                       | 3338.00                     | 60.80                         | 29.7                              | 2.0                                                    | 0.0                                | 67.44                       | 0.0674                                     |
|                                       | 0.998 | 8739.50                       | 8814.00                     | 74.50                         | 29.7                              | 1.0                                                    | 0.0                                | 80.81                       | 0.0808                                     |
| T4A OL528841 (Spiked)<br>T4B OL632815 | 1.018 | 3362.50                       | 3423.10                     | 60.60                         | 29.7                              | 2.0                                                    | 0.0                                | 67.22                       | 0.0672                                     |
|                                       | 0.998 | 8834.00                       | 8890.00                     | 56.00                         | 29.7                              | 1.0                                                    | 0.0                                | 60.75                       | 0.0607                                     |
| T5A OL535468 (Spiked)<br>T5B OL632943 | 1.018 | 3435.20                       | 3499.40                     | 64.20                         | 29.8                              | 2.0                                                    | 0.0                                | 71.33                       | 0.0713                                     |
|                                       | 0.998 | 8905.10                       | 8966.50                     | 61.40                         | 29.8                              | 1.0                                                    | 0.0                                | 66.71                       | 0.0667                                     |

\* dry at 25°C and 1 atmosphere

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | FEB 23, 2022    |
| Project No.:   | 22147           |

Train A

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | DLG18368 | Spiked | Yes | No |
| Spike Concentration  | 100      | ng     |     |    |

|                  |                            |
|------------------|----------------------------|
| Measuring Device | MII                        |
| Control Module   | V <sub>5</sub> B 60E 20015 |
| Barometer        | ENV. CAN.                  |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.65 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature °C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|------------------------------|--------------------------------------------|--------------------------|
| 0          | 3159.0             | 0                            | 1.5                                        | 3                        |
| 5          |                    |                              |                                            |                          |
| 10         | 3160.6             | 0                            | 1.5                                        | 4                        |
| 15         |                    |                              |                                            |                          |
| 20         | 3167.20            | 0                            | 1.5                                        | 5                        |
| 25         |                    |                              |                                            |                          |
| 30         | 3174.7             | 0                            | 1.5                                        | 5                        |
| 35         |                    |                              |                                            |                          |
| 40         | 3182.10            | 0                            | 1.5                                        | 5                        |
| 45         |                    |                              |                                            |                          |
| 50         | 3189.20            | 0                            | 1.5                                        | 5                        |
| 55         |                    |                              |                                            |                          |
| 60         | 3197.40            | 0                            | 1.5                                        | 5                        |

|              |      |                    |                  |                   |        |
|--------------|------|--------------------|------------------|-------------------|--------|
| Start Time:  | 1020 | Initial Leak Check | 2.01 LPM@ 20 "Hg | DGMCF:            | 1.0148 |
| Finish Time: | 1120 | Final Leak Check   | 2.01 LPM@ 20 "Hg | Sample Volume:    | 47.4   |
|              |      |                    |                  | Average DGM Temp: | 0      |
|              |      |                    |                  | Average DGM Δ H:  | 1.5    |

Train B

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | DLG32987 | Spiked | Yes | No |
| Spike Concentration  | N/A      | ng     |     |    |

|                  |                         |
|------------------|-------------------------|
| Measuring Device | MII                     |
| Control Module   | V <sub>5</sub> 4 A11542 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature °C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|------------------------------|--------------------------------------------|--------------------------|
| 0          | 8583.5             | 0                            | 0.6                                        | 4                        |
| 5          |                    |                              |                                            |                          |
| 10         | 8594.2             | 0                            | 0.6                                        | 7                        |
| 15         |                    |                              |                                            |                          |
| 20         | 8602.0             | 0                            | 0.6                                        | 6                        |
| 25         |                    |                              |                                            |                          |
| 30         | 8609.5             | 0                            | 0.6                                        | 7                        |
| 35         |                    |                              |                                            |                          |
| 40         | 8616.7             | 0                            | 0.6                                        | 9                        |
| 45         |                    |                              |                                            |                          |
| 50         | 8624.0             | 0                            | 0.6                                        | 9                        |
| 55         |                    |                              |                                            |                          |
| 60         | 8632.2             | 0                            | 0.6                                        | 9                        |

|              |      |                    |                  |                   |       |
|--------------|------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1020 | Initial Leak Check | 2.01 LPM@ 18 "Hg | DGMCF:            | 0.998 |
| Finish Time: | 1120 | Final Leak Check   | 2.01 LPM@ 18 "Hg | Sample Volume:    | 48.7  |
|              |      |                    |                  | Average DGM Temp: | 0     |
|              |      |                    |                  | Average DGM Δ H:  | 0.6   |

|           |    |
|-----------|----|
| Operator: | JG |
|-----------|----|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | FEB 23, 2022    |
| Project No.:   | 22147           |

Train A

|                      |           |        |     |    |
|----------------------|-----------|--------|-----|----|
| Tube Identification: | 0257898 L | Spiked | Yes | No |
| Spike Concentration  | 250       | ng     |     |    |

|                  |                        |
|------------------|------------------------|
| Measuring Device | MII                    |
| Control Module   | Vast 6                 |
| Barometer        | COF 20018<br>ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.68 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 3205.7             | 0                               | 1.8                                        | 11                       |
| 5          |                    |                                 |                                            |                          |
| 10         | 3215.5             | 0                               | 1.8                                        | 11                       |
| 15         |                    |                                 |                                            |                          |
| 20         | 3224.0             | 0                               | 1.8                                        | 11                       |
| 25         |                    |                                 |                                            |                          |
| 30         | 3231.0             | 0                               | 1.8                                        | 11                       |
| 35         |                    |                                 |                                            |                          |
| 40         | 3238.5             | 0                               | 1.8                                        | 11                       |
| 45         |                    |                                 |                                            |                          |
| 50         |                    |                                 |                                            |                          |
| 55         |                    |                                 |                                            |                          |
| 60         | 3258.8             | 0                               | 1.8                                        | 11                       |

|              |       |                    |                  |                   |       |
|--------------|-------|--------------------|------------------|-------------------|-------|
| Start Time:  | 11:30 | Initial Leak Check | 2.01 LPM@ 20 "Hg | DGMCF:            | 1.018 |
| Finish Time: | 12:30 | Final Leak Check   | 2.01 LPM@ 20 "Hg | Sample Volume:    | 531   |
|              |       |                    |                  | Average DGM Temp: | 0     |
|              |       |                    |                  | Average DGM Δ H:  | 1.8   |

Train B

|                      |          |                |     |    |
|----------------------|----------|----------------|-----|----|
| Tube Identification: | 02627845 | Spiked         | Yes | No |
| Spike Concentration  |          | ng             |     |    |
| Measuring Device     | MII      | Control Module |     |    |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 8647.4             | 0                               | 1.0                                        | 10                       |
| 5          |                    |                                 |                                            |                          |
| 10         | 8660.4             | 0                               | 1.0                                        | 10                       |
| 15         |                    |                                 |                                            |                          |
| 20         | 8674.7             | 0                               | 1.0                                        | 10                       |
| 25         |                    |                                 |                                            |                          |
| 30         | 8686.0             | 0                               | 1.0                                        | 10                       |
| 35         |                    |                                 |                                            |                          |
| 40         | 8698.6             | 0                               | 1.0                                        | 10                       |
| 45         |                    |                                 |                                            |                          |
| 50         |                    |                                 |                                            |                          |
| 55         |                    |                                 |                                            |                          |
| 60         | 8720.0             | 0                               | 1.0                                        | 10                       |

|              |       |                    |                  |                   |       |
|--------------|-------|--------------------|------------------|-------------------|-------|
| Start Time:  | 11:00 | Initial Leak Check | 2.01 LPM@ 18 "Hg | DGMCF:            | 0.998 |
| Finish Time: | 12:30 | Final Leak Check   | 2.01 LPM@ 19 "Hg | Sample Volume:    | 72.4  |
|              |       |                    |                  | Average DGM Temp: | 0     |
|              |       |                    |                  | Average DGM Δ H:  | .96   |

|           |      |
|-----------|------|
| Operator: | J.E. |
|-----------|------|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | Feb 22, 2022    |
| Project No.:   | 22147           |

**Train A**

|                      |         |        |                                         |    |
|----------------------|---------|--------|-----------------------------------------|----|
| Tube Identification: | 0669039 | Spiked | <input checked="" type="checkbox"/> Yes | No |
| Spike Concentration  | 600 400 | ng     |                                         |    |

|                  |                   |
|------------------|-------------------|
| Measuring Device | MII               |
| Control Module   | Vas 500 Cas 20018 |
| Barometer        | ENV. CAN.         |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.72 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 3277.2             | 0                               | 18                                         | 6                        |
| 5          |                    |                                 |                                            |                          |
| 10         | 3286.2             | 0                               | 20                                         | 10                       |
| 15         |                    |                                 |                                            |                          |
| 20         | 3296.1             | 0                               | 20                                         | 11                       |
| 25         |                    |                                 |                                            |                          |
| 30         | 3307.5             | 0                               | 20                                         | 14                       |
| 35         |                    |                                 |                                            |                          |
| 40         | 3317.0             | 0                               | 20                                         | 14                       |
| 45         |                    |                                 |                                            |                          |
| 50         |                    |                                 |                                            |                          |
| 55         |                    |                                 |                                            |                          |
| 60         | 3338.0             | 0                               | 20                                         | 15                       |

|              |       |                    |                  |                   |       |
|--------------|-------|--------------------|------------------|-------------------|-------|
| Start Time:  | 12:40 | Initial Leak Check | 2.01 LPM@ 20 "Hg | DGMCF:            | 1.018 |
| Finish Time: | 1:40  | Final Leak Check   | 2.01 LPM@ 21 "Hg | Sample Volume:    | 60.8  |
|              |       |                    |                  | Average DGM Temp: | 0     |
|              |       |                    |                  | Average DGM Δ H:  | 1.96  |

**Train B**

|                      |         |        |     |                                        |
|----------------------|---------|--------|-----|----------------------------------------|
| Tube Identification: | 0632842 | Spiked | Yes | <input checked="" type="checkbox"/> No |
| Spike Concentration  | 44      | ng     |     |                                        |

|                  |                     |
|------------------|---------------------|
| Measuring Device | MII                 |
| Control Module   | Vas 500 Cas A 11842 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 8779.5             | 0                               | 1.0                                        | 9                        |
| 5          |                    |                                 |                                            |                          |
| 10         | 8754.2             | 0                               | 1.0                                        | 9                        |
| 15         |                    |                                 |                                            |                          |
| 20         | 8766.3             | 0                               | 1.0                                        | 9                        |
| 25         |                    |                                 |                                            |                          |
| 30         |                    |                                 |                                            |                          |
| 35         | 8779.3             | 0                               | 1.0                                        | 9                        |
| 40         |                    |                                 |                                            |                          |
| 45         | 8790.5             | 0                               | 1.0                                        | 9                        |
| 50         |                    |                                 |                                            |                          |
| 55         |                    |                                 |                                            |                          |
| 60         | 8814.0             | 0                               | 1.0                                        | 9                        |

|              |       |                    |                  |                   |       |
|--------------|-------|--------------------|------------------|-------------------|-------|
| Start Time:  | 12:40 | Initial Leak Check | 2.01 LPM@ 18 "Hg | DGMCF:            | 0.998 |
| Finish Time: | 1:40  | Final Leak Check   | 2.01 LPM@ 18 "Hg | Sample Volume:    | 74.5  |
|              |       |                    |                  | Average DGM Temp: | 0     |
|              |       |                    |                  | Average DGM Δ H:  | 1.0   |

|           |     |
|-----------|-----|
| Operator: | JG. |
|-----------|-----|



**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | Feb 23, 2022    |
| Project No.:   | 22147           |

**Train A**

|                      |             |        |                                                                     |
|----------------------|-------------|--------|---------------------------------------------------------------------|
| Tube Identification: | 8 JLS243411 | Spiked | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Spike Concentration  | 800         | ng     |                                                                     |

|                  |                        |
|------------------|------------------------|
| Measuring Device | MII                    |
| Control Module   | Vol B                  |
| Barometer        | COE 20018<br>ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.72 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 3362.5             | 0                               | 2                                          | 7                        |
| 5          |                    |                                 |                                            |                          |
| 10         | 3372.9             | 0                               | 2                                          | 7                        |
| 15         |                    |                                 |                                            |                          |
| 20         | 3384.7             | 0                               | 2                                          | 7                        |
| 25         |                    |                                 |                                            |                          |
| 30         | 3383.5             | 0                               | 2                                          | 7                        |
| 35         |                    |                                 |                                            |                          |
| 40         | 3402.3             | 0                               | 2                                          | 8                        |
| 45         |                    |                                 |                                            |                          |
| 50         | 3413.7             | 0                               | 2                                          | 8                        |
| 55         |                    |                                 |                                            |                          |
| 60         | 3422.1             | 0                               | 2                                          | 8                        |

|              |      |                    |                 |                   |       |
|--------------|------|--------------------|-----------------|-------------------|-------|
| Start Time:  | 1352 | Initial Leak Check | CO1 LPM@ 20 "Hg | DGMCF:            | 1.018 |
| Finish Time: | 1452 | Final Leak Check   | CO1 LPM@ 20 "Hg | Sample Volume:    | 60.6  |
|              |      |                    |                 | Average DGM Temp: | 0     |
|              |      |                    |                 | Average DGM Δ H:  | 2.0   |

**Train B**

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 46325710 | Spiked | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Spike Concentration  |          | ng     |                                                                     |

|                  |     |
|------------------|-----|
| Measuring Device | MII |
| Control Module   |     |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 8834.0             | 0                               | 1                                          | 9                        |
| 5          |                    |                                 |                                            |                          |
| 10         | 8844.2             | 0                               | 1                                          | 9                        |
| 15         |                    |                                 |                                            |                          |
| 20         | 8854.5             | 0                               | 1                                          | 10                       |
| 25         |                    |                                 |                                            |                          |
| 30         | 8865.0             | 0                               | 1                                          | 11                       |
| 35         |                    |                                 |                                            |                          |
| 40         | 8870.9             | 0                               | 1                                          | 11                       |
| 45         |                    |                                 |                                            |                          |
| 50         | 8880.0             | 0                               | 1                                          | 11                       |
| 55         |                    |                                 |                                            |                          |
| 60         | 8890.0             | 0                               | 1                                          | 11                       |

|              |      |                    |                 |                   |       |
|--------------|------|--------------------|-----------------|-------------------|-------|
| Start Time:  | 1352 | Initial Leak Check | CO1 LPM@ 20 "Hg | DGMCF:            | 0.998 |
| Finish Time: | 1452 | Final Leak Check   | CO1 LPM@ 20 "Hg | Sample Volume:    | 76.0  |
|              |      |                    |                 | Average DGM Temp: | 0     |
|              |      |                    |                 | Average DGM Δ H:  | 1     |

|           |     |
|-----------|-----|
| Operator: | JCF |
|-----------|-----|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | FEB 23, 2022.   |
| Project No.:   | 22147           |

Train A

|                      |             |        |     |    |
|----------------------|-------------|--------|-----|----|
| Tube Identification: | 00045335460 | Spiked | Yes | No |
| Spike Concentration  | 600         | ng     |     |    |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | CAF 20018 |
| Barometer        | ENV. CAN. |

|                     |        |
|---------------------|--------|
| Barometric Pressure | 29.77. |
|---------------------|--------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 3435.2             | 0                               | 2                                          | 8                        |
| 5          |                    |                                 |                                            |                          |
| 10         | 3446.8             | 0                               | 2                                          | 8                        |
| 15         |                    |                                 |                                            |                          |
| 20         | 3456.0             | 0                               | 2                                          | 8                        |
| 25         |                    |                                 |                                            |                          |
| 30         | 3466.1             | 0                               | 2                                          | 8                        |
| 35         |                    |                                 |                                            |                          |
| 40         | 3476.8             | 0                               | 2                                          | 8                        |
| 45         |                    |                                 |                                            |                          |
| 50         | 3477.9             | 0                               | 2                                          | 8                        |
| 55         |                    |                                 |                                            |                          |
| 60         | 3499.4             | 0                               | 2                                          | 8                        |

|              |      |                    |                  |                   |       |
|--------------|------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1510 | Initial Leak Check | 2.01 LPM@ 20 "Hg | DGMCF:            | 1.018 |
| Finish Time: | 1610 | Final Leak Check   | 2.01 LPM@ 20 "Hg | Sample Volume:    | 61.2  |
|              |      |                    |                  | Average DGM Temp: | 0     |
|              |      |                    |                  | Average DGM Δ H:  | 2     |

Train B

|                      |           |        |     |    |
|----------------------|-----------|--------|-----|----|
| Tube Identification: | 01-622947 | Spiked | Yes | No |
| Spike Concentration  |           | ng     |     |    |

|                  |     |
|------------------|-----|
| Measuring Device | MII |
| Control Module   |     |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 8906.1             | 0                               | 1.0                                        | 12                       |
| 5          |                    |                                 |                                            |                          |
| 10         | 8915.3             | 0                               | 1                                          | 12                       |
| 15         |                    |                                 |                                            |                          |
| 20         | 8925.8             | 0                               | 1                                          | 12                       |
| 25         |                    |                                 |                                            |                          |
| 30         | 8936.2             | 0                               | 1                                          | 13                       |
| 35         |                    |                                 |                                            |                          |
| 40         | 8946.3             | 0                               | 1                                          | 13                       |
| 45         |                    |                                 |                                            |                          |
| 50         | 8956.4             | 0                               | 1                                          | 13                       |
| 55         |                    |                                 |                                            |                          |
| 60         | 8966.5             | 0                               | 1.0                                        | 15                       |

|              |      |                    |                  |                   |       |
|--------------|------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1510 | Initial Leak Check | 2.01 LPM@ 20 "Hg | DGMCF:            | 0.998 |
| Finish Time: | 1610 | Final Leak Check   | 2.01 LPM@ 20 "Hg | Sample Volume:    | 61.4  |
|              |      |                    |                  | Average DGM Temp: | 0     |
|              |      |                    |                  | Average DGM Δ H:  | 1.0   |

|           |    |
|-----------|----|
| Operator: | JG |
|-----------|----|

**Clean Harbors, Sarnia**  
**Mercury Tube Sampling Train**  
**Sample Volume Corrections**

**Incinerator Exhaust Stack**

| Test # - Tube<br>(tube pair field ID) | DGMCF | Initial DGM<br>Reading<br>(L) | Final DGM<br>Reading<br>(L) | Actual Vol.<br>Sampled<br>(L) | Barometric<br>Pressure<br>(in Hg) | Average DGM<br>Pressure<br>del H (in H <sub>2</sub> O) | Average DGM<br>Temperature<br>(°C) | Corrected<br>Volume<br>(L)* | Corrected<br>Volume<br>(Rm <sup>3</sup> )* |
|---------------------------------------|-------|-------------------------------|-----------------------------|-------------------------------|-----------------------------------|--------------------------------------------------------|------------------------------------|-----------------------------|--------------------------------------------|
| T1A OL618334 (Spiked)<br>T1B OL644591 | 0.994 | 22.04                         | 90.95                       | 68.91                         | 28.9                              | 2.0                                                    | 12.7                               | 69.40                       | 0.0694                                     |
|                                       | 0.983 | 32.70                         | 96.20                       | 63.50                         | 28.9                              | 1.0                                                    | 13.9                               | 62.83                       | 0.0628                                     |
| T2A OL642499<br>T2B OL569052 (Spiked) | 0.994 | 93.75                         | 154.20                      | 60.45                         | 28.9                              | 1.9                                                    | 13.9                               | 60.62                       | 0.0606                                     |
|                                       | 0.983 | 97.75                         | 157.75                      | 60.00                         | 28.9                              | 1.0                                                    | 14.9                               | 59.16                       | 0.0592                                     |
| T3A OL568968 (Spiked)<br>T3B OL642359 | 0.994 | 55.00                         | 119.90                      | 64.90                         | 28.9                              | 1.9                                                    | 12.9                               | 65.31                       | 0.0653                                     |
|                                       | 0.983 | 58.00                         | 120.80                      | 62.80                         | 28.9                              | 1.0                                                    | 14.0                               | 62.11                       | 0.0621                                     |
| T4A OL642442<br>T4B OL528850 (Spiked) | 0.994 | 20.35                         | 83.20                       | 62.85                         | 28.9                              | 1.9                                                    | 12.7                               | 63.31                       | 0.0633                                     |
|                                       | 0.983 | 21.20                         | 82.80                       | 61.60                         | 28.9                              | 1.0                                                    | 13.9                               | 60.97                       | 0.0610                                     |

\* dry at 25°C and 1 atmosphere

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | Apr 7, 22       |
| Project No.:   | 22147           |

Train A

|                      |          |        |          |
|----------------------|----------|--------|----------|
| Tube Identification: | 06618374 | Spiked | (Yes) No |
| Spike Concentration  | 150      | ng     |          |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | MO 5498   |
| Barometer        | ENV. CAN. |

|                     |       |       |
|---------------------|-------|-------|
| Barometric Pressure | 97.95 | 28.92 |
|---------------------|-------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 22.04              | 10                              | 2.0                                        | 7                        |
| 5          | 27.55              | 11                              | 2                                          | 7.5                      |
| 10         | 33.8               | 11                              | 2                                          | 7.5                      |
| 15         | 38.4               | 11                              | 2                                          | 7.5                      |
| 20         | 44.3               | 11                              | 2                                          | 7.5                      |
| 25         | 49.7               | 12                              | 2                                          | 9.5                      |
| 30         | 55.6               | 13                              | 2                                          | 9.5                      |
| 35         | 61.4               | 14                              | 2                                          | 9.5                      |
| 40         | 67.0               | 14                              | 2                                          | 9.5                      |
| 45         | 73.2               | 14                              | 2                                          | 9.5                      |
| 50         | 79.4               | 15                              | 2                                          | 9.5                      |
| 55         | 85.1               | 15                              | 2                                          | 9.5                      |
| 60         | 90.95              | 14                              | 2                                          | 9.5                      |

|              |       |                    |                |                   |      |
|--------------|-------|--------------------|----------------|-------------------|------|
| Start Time:  | 10:37 | Initial Leak Check | 25 LPM@ 10 "Hg | DGMCF:            | 994  |
| Finish Time: | 11:37 | Final Leak Check   | LPM@ "Hg       | Sample Volume:    |      |
|              |       |                    |                | Average DGM Temp: | 12.7 |
|              |       |                    |                | Average DGM Δ H:  | 2    |

Train B

|                      |          |        |          |
|----------------------|----------|--------|----------|
| Tube Identification: | 06644591 | Spiked | Yes (No) |
| Spike Concentration  |          | ng     |          |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 32.70              | 12                              | 1.0                                        | 8                        |
| 5          | 39.1               | 13                              | 1                                          | 6.5                      |
| 10         | 44.5               | 13                              | 1                                          | 6.5                      |
| 15         | 49.8               | 13                              | 1                                          | 6.5                      |
| 20         | 54.0               | 14                              | 1                                          | 7.5                      |
| 25         | 58.92              | 15                              | 1                                          | 9.5                      |
| 30         | 64.3               | 14                              | 1                                          | 9.5                      |
| 35         | 69.7               | 14                              | 1                                          | 9.5                      |
| 40         | 75.1               | 14                              | 1                                          | 9.5                      |
| 45         | 80.25              | 14                              | 1                                          | 9.5                      |
| 50         | 85.5               | 15                              | 1                                          | 9.5                      |
| 55         | 90.9               | 16                              | 1                                          | 9.5                      |
| 60         | 96.2               | 14                              | 1                                          | 9.5                      |

|              |       |                    |                |                   |      |
|--------------|-------|--------------------|----------------|-------------------|------|
| Start Time:  | 10:38 | Initial Leak Check | 25 LPM@ 10 "Hg | DGMCF:            | 1983 |
| Finish Time: | 11:38 | Final Leak Check   | LPM@ "Hg       | Sample Volume:    |      |
|              |       |                    |                | Average DGM Temp: | 13.9 |
|              |       |                    |                | Average DGM Δ H:  | 1    |

|           |          |
|-----------|----------|
| Operator: | A TURTON |
|-----------|----------|

# ORTECH Mercury Tube Data Sheet

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | APR 7, 22       |
| Project No.:   | 22147           |

Train A

|                      |                                 |        |                              |                                        |
|----------------------|---------------------------------|--------|------------------------------|----------------------------------------|
| Tube Identification: | <del>02642499</del><br>02642499 | Spiked | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Spike Concentration  | —                               | ng     |                              |                                        |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M05498    |
| Barometer        | ENV. CAN. |

|                     |       |       |
|---------------------|-------|-------|
| Barometric Pressure | 97.92 | 28.92 |
|---------------------|-------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | 93.75              | 13                              | 1.8                                        | 9                           |
| 5          | 98.7               | 14                              | 1.9                                        | 9.5                         |
| 10         | 103.95             | 14                              | 1.9                                        | 12                          |
| 15         | 108.9              | 14                              | 1.9                                        | 12                          |
| 20         | 113.9              | 14                              | 1.9                                        | 12.5                        |
| 25         | 118.9              | 14                              | 1.9                                        | 12.5                        |
| 30         | 123.8              | 14                              | 1.9                                        | 12.5                        |
| 35         | 128.8              | 14                              | 1.9                                        | 12.5                        |
| 40         | 133.7              | 14                              | 1.9                                        | 12.5                        |
| 45         | 138.3              | 14                              | 1.9                                        | 13.5                        |
| 50         | 143.5              | 14                              | 1.9                                        | 14                          |
| 55         | 148.9              | 14                              | 1.9                                        | 14                          |
| 60         | 154.2              | 14                              | 1.9                                        | 14                          |

|              |       |                    |                    |                   |      |
|--------------|-------|--------------------|--------------------|-------------------|------|
| Start Time:  | 11:58 | Initial Leak Check | 20.25 LPM @ 14 "Hg | DGMCF:            | .994 |
| Finish Time: | 12:58 | Final Leak Check   | 20.25 LPM @ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                    | Average DGM Temp: | 17.9 |
|              |       |                    |                    | Average DGM Δ H:  |      |

Train B

|                      |          |        |                                         |                             |
|----------------------|----------|--------|-----------------------------------------|-----------------------------|
| Tube Identification: | 02569052 | Spiked | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Spike Concentration  | 300      | ng     |                                         |                             |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | 97.75              | 14                              | 1                                          | 7.5                         |
| 5          | 103.25             | 15                              | 1                                          | 7.5                         |
| 10         | 108.4              | 15                              | 1                                          | 8                           |
| 15         | 113.4              | 15                              | 1                                          | 8                           |
| 20         | 118.0              | 15                              | 1                                          | 8                           |
| 25         | 122.1              | 15                              | 1                                          | 9.5                         |
| 30         | 127.1              | 15                              | 1                                          | 9.5                         |
| 35         | 132.0              | 15                              | 1                                          | 10                          |
| 40         | 136.9              | 15                              | 1                                          | 10                          |
| 45         | 142.1              | 15                              | 1                                          | 10                          |
| 50         | 147.3              | 15                              | 1                                          | 10                          |
| 55         | 152.5              | 15                              | 1                                          | 10                          |
| 60         | 157.75             | 15                              | 1                                          | 10                          |

|              |       |                    |                   |                   |      |
|--------------|-------|--------------------|-------------------|-------------------|------|
| Start Time:  | 11:58 | Initial Leak Check | 20.5 LPM @ 15 "Hg | DGMCF:            | .983 |
| Finish Time: | 12:59 | Final Leak Check   | 20.5 LPM @ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                   | Average DGM Temp: | 14.9 |
|              |       |                    |                   | Average DGM Δ H:  |      |

|           |    |
|-----------|----|
| Operator: | DT |
|-----------|----|

# ORTECH Mercury Tube Data Sheet

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | APR 22          |
| Project No.:   | 22147           |

Train A

|                      |          |        |                                                               |
|----------------------|----------|--------|---------------------------------------------------------------|
| Tube Identification: | 06568968 | Spiked | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Spike Concentration  | 500      | ng     |                                                               |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M09498    |
| Barometer        | ENV. CAN. |

|                     |       |       |
|---------------------|-------|-------|
| Barometric Pressure | 97.92 | 28.92 |
|---------------------|-------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 55.0               | 12                              | 1.9                                        | 9                        |
| 5          | 60.8               | 12                              | 1.9                                        | 8.0                      |
| 10         | 69.9               | 13                              | 1.9                                        | 8.0                      |
| 15         | 70.5               | 13                              | 1.9                                        | 8.0                      |
| 20         | 74.9               | 13                              | 1.9                                        | 8.0                      |
| 25         | 79.5               | 13                              | 1.9                                        | 8.5                      |
| 30         | 85.0               | 13                              | 1.9                                        | 7.5 11                   |
| 35         | 90.0               | 13                              | 1.9                                        | 11                       |
| 40         | 98.0               | 13                              | 1.9                                        | 11                       |
| 45         | 101.0              | 13                              | 1.9                                        | 11                       |
| 50         | 108.3              | 14                              | 1.9                                        | 11                       |
| 55         | 114.1              | 13                              | 1.9                                        | 11                       |
| 60         | 119.3              | 13                              | 1.9                                        | 11                       |

|              |       |                    |                   |                   |      |
|--------------|-------|--------------------|-------------------|-------------------|------|
| Start Time:  | 13:15 | Initial Leak Check | < 05 LPM @ 17 "Hg | DGMCF:            | .994 |
| Finish Time: | 14:15 | Final Leak Check   | < 05 LPM @ 18 "Hg | Sample Volume:    |      |
|              |       |                    |                   | Average DGM Temp: | 12.9 |
|              |       |                    |                   | Average DGM Δ H:  |      |

Train B

|                      |          |        |                                                               |
|----------------------|----------|--------|---------------------------------------------------------------|
| Tube Identification: | 06642350 | Spiked | Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Spike Concentration  |          | ng     |                                                               |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 58.0               | 12                              | 1                                          | 7                        |
| 5          | 63.8               | 14                              | 1                                          | 7                        |
| 10         | 69.4               | 14                              | 1                                          | 7                        |
| 15         | 74.9               | 14                              | 1                                          | 7                        |
| 20         | 80.0               | 14                              | 1                                          | 7                        |
| 25         | 85.1               | 14                              | 1                                          | 7                        |
| 30         | 90.3               | 14                              | 1                                          | 7                        |
| 35         | 95.3               | 14                              | 1                                          | 7                        |
| 40         | 100.9              | 14                              | 1                                          | 7                        |
| 45         | 105.5              | 14                              | 1                                          | 7                        |
| 50         | 110.7              | 15                              | 1                                          | 7                        |
| 55         | 115.9              | 15                              | 1                                          | 7                        |
| 60         | 120.8              | 14                              | 1                                          | 7                        |

|              |       |                    |                   |                   |      |
|--------------|-------|--------------------|-------------------|-------------------|------|
| Start Time:  | 13:15 | Initial Leak Check | < 05 LPM @ 15 "Hg | DGMCF:            | .983 |
| Finish Time: | 14:15 | Final Leak Check   | < 05 LPM @ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                   | Average DGM Temp: | 13.9 |
|              |       |                    |                   | Average DGM Δ H:  |      |

|           |    |
|-----------|----|
| Operator: | ST |
|-----------|----|

**ORTECH  
Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | APR 7, 2022     |
| Project No.:   | 22147           |

**Train A**

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 02642442 | Spiked | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Spike Concentration  |          | ng     |                                                                     |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M05408    |
| Barometer        | ENV. CAN. |

|                     |       |       |
|---------------------|-------|-------|
| Barometric Pressure | 97.96 | 28.93 |
|---------------------|-------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 20.35              | 12                              | 1.9                                        | 12                       |
| 5          | 25.2               | 12                              | 1.9                                        | 11                       |
| 10         | 30.2               | 12                              | 1.9                                        | 11                       |
| 15         | 35.2               | 12                              | 1.9                                        | 11                       |
| 20         | 40.6               | 12                              | 1.9                                        | 11                       |
| 25         | 45.8               | 13                              | 1.9                                        | 11                       |
| 30         | 51.2               | 13                              | 1.9                                        | 11                       |
| 35         | 56.2               | 13                              | 1.9                                        | 11                       |
| 40         | 60.8               | 13                              | 1.9                                        | 11                       |
| 45         | 65.7               | 14                              | 1.9                                        | 13                       |
| 50         | 71.3               | 13                              | 1.9                                        | 13                       |
| 55         | 77.2               | 13                              | 1.9                                        | 13                       |
| 60         | 83.2               | 13                              | 1.9                                        | 13                       |

|              |       |                    |                 |                   |      |
|--------------|-------|--------------------|-----------------|-------------------|------|
| Start Time:  | 14:28 | Initial Leak Check | 605 LPM@ 15 "Hg | DGMCF:            | .994 |
| Finish Time: | 15:38 | Final Leak Check   | 605 LPM@ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                 | Average DGM Temp: | 17.7 |
|              |       |                    |                 | Average DGM Δ H:  |      |

**Train B**

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 02928490 | Spiked | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Spike Concentration  | 600      | ng     |                                                                     |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | R/2010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 21.2               | 12                              | 1                                          | 6                        |
| 5          | 26.3               | 14                              | 1                                          | 6                        |
| 10         | 31.0               | 14                              | 1                                          | 6                        |
| 15         | 36.0               | 14                              | 1                                          | 6                        |
| 20         | 41.0               | 14                              | 1                                          | 6                        |
| 25         | 45.9               | 14                              | 1                                          | 6                        |
| 30         | 50.9               | 14                              | 1                                          | 6                        |
| 35         | 55.5               | 14                              | 1                                          | 7                        |
| 40         | 60.4               | 14                              | 1                                          | 7                        |
| 45         | 65.3               | 14                              | 1                                          | 7.5                      |
| 50         | 71.0               | 15                              | 1                                          | 7.5                      |
| 55         | 77.4               | 14                              | 1                                          | 7.5                      |
| 60         | 82.8               | 14                              | 1                                          | 7.5                      |

|              |       |                    |                 |                   |      |
|--------------|-------|--------------------|-----------------|-------------------|------|
| Start Time:  | 14:29 | Initial Leak Check | 605 LPM@ 15 "Hg | DGMCF:            | .983 |
| Finish Time: | 15:29 | Final Leak Check   | 605 LPM@ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                 | Average DGM Temp: | 13.8 |
|              |       |                    |                 | Average DGM Δ H:  |      |

|           |    |
|-----------|----|
| Operator: | ST |
|-----------|----|

**Clean Harbors, Sarnia**  
**Mercury Tube Sampling Train**  
**Sample Volume Corrections**

**Incinerator Exhaust Stack**

| Test # - Tube<br>(tube pair field ID) | DGMCF | Initial DGM<br>Reading<br>(L) | Final DGM<br>Reading<br>(L) | Actual Vol.<br>Sampled<br>(L) | Barometric<br>Pressure<br>(in Hg) | Average DGM<br>Pressure<br>del H (in H <sub>2</sub> O) | Average DGM<br>Temperature<br>(°C) | Corrected<br>Volume<br>(L)* | Corrected<br>Volume<br>(Rm <sup>3</sup> )* |
|---------------------------------------|-------|-------------------------------|-----------------------------|-------------------------------|-----------------------------------|--------------------------------------------------------|------------------------------------|-----------------------------|--------------------------------------------|
| T1A OL661441                          | 0.983 | 745.75                        | 814.10                      | 68.35                         | 29.6                              | 2.0                                                    | 21.5                               | 67.48                       | 0.0675                                     |
| T1B OL528827 (Spiked)                 | 0.997 | 345.00                        | 407.40                      | 62.40                         | 29.6                              | 1.0                                                    | 25.6                               | 61.47                       | 0.0615                                     |
| T2A OL618397 (Spiked)                 | 0.983 | 814.50                        | 877.90                      | 63.40                         | 29.5                              | 2.0                                                    | 22.6                               | 62.32                       | 0.0623                                     |
| T2B OL661394                          | 0.997 | 407.60                        | 466.20                      | 58.60                         | 29.5                              | 1.0                                                    | 25.9                               | 57.63                       | 0.0576                                     |
| T3A OL661397                          | 0.983 | 882.30                        | 944.30                      | 62.00                         | 29.5                              | 2.0                                                    | 21.9                               | 61.07                       | 0.0611                                     |
| T3B OL568997 (Spiked)                 | 0.997 | 468.30                        | 532.30                      | 64.00                         | 29.5                              | 1.0                                                    | 25.7                               | 62.96                       | 0.0630                                     |
| T4A OL610656 (Spiked)                 | 0.983 | 45.70                         | 111.90                      | 66.20                         | 29.5                              | 2.0                                                    | 21.9                               | 65.14                       | 0.0651                                     |
| T4B OL661401                          | 0.997 | 33.10                         | 92.80                       | 59.70                         | 29.5                              | 1.0                                                    | 26.6                               | 58.50                       | 0.0585                                     |
| T5A OL661358                          | 0.983 | 13.20                         | 77.10                       | 63.90                         | 29.5                              | 2.0                                                    | 21.6                               | 62.85                       | 0.0629                                     |
| T5B OL620140 (Spiked)                 | 0.997 | 93.10                         | 154.30                      | 61.20                         | 29.5                              | 1.0                                                    | 25.3                               | 60.15                       | 0.0601                                     |
| T6A OL610624                          | 0.983 | 77.70                         | 144.00                      | 66.30                         | 29.4                              | 2.0                                                    | 20.8                               | 65.35                       | 0.0653                                     |
| T6B OL661363 (Spiked)                 | 0.997 | 55.20                         | 114.50                      | 59.30                         | 29.4                              | 1.0                                                    | 25.0                               | 58.30                       | 0.0583                                     |

\* dry at 25°C and 1 atmosphere



**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MAY 25 / 2020   |
| Project No.:   | 22147           |

Train A

|                      |          |        |          |
|----------------------|----------|--------|----------|
| Tube Identification: | 0666/441 | Spiked | Yes (No) |
| Spike Concentration  | NA       | ng     |          |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M09498    |
| Barometer        | ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.55 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L     | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|------------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | 745.75                 | 18                              | 22                                         | 2.5                         |
| 5          | 752.7                  | 20                              | 2                                          | 11                          |
| 10         | 757.6                  | 21                              | 2                                          | 11.5                        |
| 15         | 762.8                  | 21                              | 2                                          | 11.5                        |
| 20         | 768.0                  | 21                              | 2                                          | 11.5                        |
| 25         | <del>773.0</del> 773.6 | 22                              | 2                                          | 11.5                        |
| 30         | 780.5                  | 22                              | 2                                          | 15                          |
| 35         | 785.0                  | 22                              | 2                                          | 15                          |
| 40         | 791.8                  | 22                              | 2                                          | 15                          |
| 45         | 797.5                  | 22                              | 2                                          | 14                          |
| 50         | 802.5                  | 22                              | 2                                          | 14                          |
| 55         | 808.6                  | 23                              | 2                                          | 14                          |
| 60         | 814.1                  | 23                              | 2                                          | 14                          |

|              |       |                    |                  |                   |           |
|--------------|-------|--------------------|------------------|-------------------|-----------|
| Start Time:  | 10:24 | Initial Leak Check | .002 LPM@ 17 "Hg | DGMCF:            | .977 .983 |
| Finish Time: | 11:04 | Final Leak Check   | .002 LPM@ 18 "Hg | Sample Volume:    |           |
|              |       |                    |                  | Average DGM Temp: |           |
|              |       |                    |                  | Average DGM Δ H:  |           |

Train B

|                      |          |        |          |
|----------------------|----------|--------|----------|
| Tube Identification: | 06528827 | Spiked | Yes (No) |
| Spike Concentration  | 250      | ng     |          |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L     | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|------------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | <del>345.0</del> 345.0 | 19                              | 21                                         | 2.5                         |
| 5          | 350.5                  | 24                              | 1                                          | 6                           |
| 10         | 355.5                  | 26                              | 1                                          | 6                           |
| 15         | 360.4                  | 27                              | 1                                          | 6                           |
| 20         | 365.0                  | 29                              | 1                                          | 7                           |
| 25         | 370.0                  | 26                              | 1                                          | 8                           |
| 30         | 375.5                  | 26                              | 1                                          | 8                           |
| 35         | 380.9                  | 27                              | 1                                          | 8                           |
| 40         | 386.1                  | 27                              | 1                                          | 8.5                         |
| 45         | 391.4                  | 27                              | 1                                          | 8.5                         |
| 50         | 396.7                  | 27                              | 1                                          | 8.5                         |
| 55         | 402.0                  | 27                              | 1                                          | 8.5                         |
| 60         | 407.4                  | 27                              | 1                                          | 8.5                         |

|              |        |                    |                  |                   |           |
|--------------|--------|--------------------|------------------|-------------------|-----------|
| Start Time:  | 10:205 | Initial Leak Check | .002 LPM@ 15 "Hg | DGMCF:            | .987 .997 |
| Finish Time: | 11:05  | Final Leak Check   | .002 LPM@ 15 "Hg | Sample Volume:    |           |
|              |        |                    |                  | Average DGM Temp: |           |
|              |        |                    |                  | Average DGM Δ H:  |           |

|           |    |
|-----------|----|
| Operator: | DT |
|-----------|----|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MAY 25 / 22     |
| Project No.:   | 22147           |

Train A

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 02618397 | Spiked | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Spike Concentration  | 150      | ng     |                                                                     |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | MJ5498    |
| Barometer        | ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.53 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|--------------------------|
| 0          | 814.5              | 26                              | 2                                         | 6.5                      |
| 5          | 820.2              | 23                              | 2                                         | 6.5                      |
| 10         | 826.4              | 23                              | 2                                         | 6.5                      |
| 15         | 831.4              | 23                              | 2                                         | 6.5                      |
| 20         | 836.5              | 23                              | 2                                         | 6.5                      |
| 25         | 841.4              | 23                              | 2                                         | 6.5                      |
| 30         | 846.4              | 23                              | 2                                         | 6.5                      |
| 35         | 850.9              | 23                              | 2                                         | 6.5                      |
| 40         | 855.3              | 23                              | 2                                         | 6.5                      |
| 45         | 861.0              | 23                              | 2                                         | 8                        |
| 50         | 866.8              | 22                              | 2                                         | 8                        |
| 55         | 872.4              | 22                              | 2                                         | 8                        |
| 60         | 877.9              | 22                              | 2                                         | 8                        |

|              |       |                    |                  |                   |     |
|--------------|-------|--------------------|------------------|-------------------|-----|
| Start Time:  | 11:17 | Initial Leak Check | 0.02 LPM@ 16 "Hg | DGMCF:            | 983 |
| Finish Time: | 12:18 | Final Leak Check   | LPM@ "Hg         | Sample Volume:    |     |
|              |       |                    |                  | Average DGM Temp: |     |
|              |       |                    |                  | Average DGM Δ H:  |     |

Train B

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 02661394 | Spiked | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Spike Concentration  |          | ng     |                                                                     |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|--------------------------|
| 0          | 407.6              | 23                              | 1                                         | 7                        |
| 5          | 412.9              | 25                              | 1                                         | 7                        |
| 10         | 417.8              | 27                              | 1                                         | 7                        |
| 15         | 422.7              | 27                              | 1                                         | 7                        |
| 20         | 425.8              | 27                              | 1                                         | 7                        |
| 25         | 430.8              | 27                              | 1                                         | 11                       |
| 30         | 435.8              | 27                              | 1                                         | 11                       |
| 35         | 440.8              | 27                              | 1                                         | 11                       |
| 40         | 445.7              | 26                              | 1                                         | 11                       |
| 45         | 451.0              | 26                              | 1                                         | 11                       |
| 50         | 456.0              | 25                              | 1                                         | 11                       |
| 55         | 461.0              | 25                              | 1                                         | 11                       |
| 60         | 466.2              | 25                              | 1                                         | 11                       |

|              |       |                    |                  |                   |     |
|--------------|-------|--------------------|------------------|-------------------|-----|
| Start Time:  | 12:20 | Initial Leak Check | 0.02 LPM@ 15 "Hg | DGMCF:            | 997 |
| Finish Time: | 12:20 | Final Leak Check   | LPM@ "Hg         | Sample Volume:    |     |
|              |       |                    |                  | Average DGM Temp: |     |
|              |       |                    |                  | Average DGM Δ H:  |     |

|           |    |
|-----------|----|
| Operator: | BT |
|-----------|----|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          |                 |
| Project No.:   | 22147           |

Train A

|                      |          |        |                                                                     |
|----------------------|----------|--------|---------------------------------------------------------------------|
| Tube Identification: | 02661397 | Spiked | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Spike Concentration  |          | ng     |                                                                     |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M05498    |
| Barometer        | ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.82 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | 882.3              | 21                              | 2                                          | 9                           |
| 5          | 887.8              | 22                              | 2                                          | 11                          |
| 10         | 893.2              | 22                              | 2                                          | 11                          |
| 15         | 898.2              | 22                              | 2                                          | 11                          |
| 20         | 903.1              | 22                              | 2                                          | 11                          |
| 25         | 908.1              | 22                              | 2                                          | 11                          |
| 30         | 913.1              | 22                              | 2                                          | 11                          |
| 35         | 917.7              | 22                              | 2                                          | 11                          |
| 40         | 922.0              | 22                              | 2                                          | 11                          |
| 45         | 927.0              | 22                              | 2                                          | 11                          |
| 50         | 933.6              | 22                              | 2                                          | 15                          |
| 55         | 939.3              | 22                              | 2                                          | 13                          |
| 60         | 944.3              | 22                              | 2                                          | 13                          |

|              |       |                    |                 |                   |     |
|--------------|-------|--------------------|-----------------|-------------------|-----|
| Start Time:  | 12:37 | Initial Leak Check | 005 LPM@ 15 "Hg | DGMCF:            | 983 |
| Finish Time: | 13:37 | Final Leak Check   | LPM@ "Hg        | Sample Volume:    |     |
|              |       |                    |                 | Average DGM Temp: |     |
|              |       |                    |                 | Average DGM Δ H:  |     |

Train B

|                      |          |        |          |                  |        |
|----------------------|----------|--------|----------|------------------|--------|
| Tube Identification: | 02568997 | Spiked | (Yes) No | Measuring Device | MII    |
| Spike Concentration  | 400      | ng     |          | Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|-----------------------------|
| 0          | 468.3              | 22                              | 1                                          | 7.5                         |
| 5          | 474.6              | 25                              | 1                                          | 8                           |
| 10         | 480.1              | 26                              | 1                                          | 8                           |
| 15         | 485.1              | 26                              | 1                                          | 8                           |
| 20         | 490.1              | 26                              | 1                                          | 8                           |
| 25         | 495.5              | 26                              | 1                                          | 8                           |
| 30         | 501.7              | 26                              | 1                                          | 8                           |
| 35         | 506.5              | 26                              | 1                                          | 8                           |
| 40         | 512.5              | 26                              | 1                                          | 8                           |
| 45         | 517.0              | 26                              | 1                                          | 8                           |
| 50         | 522.6              | 27                              | 1                                          | 8                           |
| 55         | 527.2              | 26                              | 1                                          | 8                           |
| 60         | 532.3              | 26                              | 1                                          | 8                           |

|              |       |                    |                 |                   |     |
|--------------|-------|--------------------|-----------------|-------------------|-----|
| Start Time:  | 12:38 | Initial Leak Check | 005 LPM@ 15 "Hg | DGMCF:            | 977 |
| Finish Time: | 13:38 | Final Leak Check   | LPM@ "Hg        | Sample Volume:    |     |
|              |       |                    |                 | Average DGM Temp: |     |
|              |       |                    |                 | Average DGM Δ H:  |     |

|           |    |
|-----------|----|
| Operator: | DT |
|-----------|----|

**ORTECH**  
**Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MAY 29/12       |
| Project No.:   | 22147           |

Train A

|                      |           |        |                                                               |
|----------------------|-----------|--------|---------------------------------------------------------------|
| Tube Identification: | OL 810656 | Spiked | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Spike Concentration  | 600       | ng     |                                                               |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M03498    |
| Barometer        | ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.49 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 45.7               | 21                              | 2                                          | 9                        |
| 5          | 50.7               | 22                              | 2                                          | 10                       |
| 10         | 59.7               | 22                              | 2                                          | 10                       |
| 15         | 62.0               | 22                              | 2                                          | 10                       |
| 20         | 69.4               | 22                              | 2                                          | 10                       |
| 25         | 75.0               | 22                              | 2                                          | 10                       |
| 30         | 80.0               | 22                              | 2                                          | 10                       |
| 35         | 85.7               | 22                              | 2                                          | 10                       |
| 40         | 90.5               | 22                              | 2                                          | 10                       |
| 45         | 95.9               | 22                              | 2                                          | 10                       |
| 50         | 104.2              | 22                              | 2                                          | 10                       |
| 55         | 106.7              | 22                              | 2                                          | 10                       |
| 60         | 111.9              | 22                              | 2                                          | 10                       |

|              |       |                    |                  |                   |     |
|--------------|-------|--------------------|------------------|-------------------|-----|
| Start Time:  | 14:00 | Initial Leak Check | 0.05 LPM@ 15 "Hg | DGMCF:            | 983 |
| Finish Time: | 15:00 | Final Leak Check   | 0.05 LPM@ 15 "Hg | Sample Volume:    |     |
|              |       |                    |                  | Average DGM Temp: |     |
|              |       |                    |                  | Average DGM Δ H:  |     |

Train B

|                      |           |        |                                                               |
|----------------------|-----------|--------|---------------------------------------------------------------|
| Tube Identification: | OL 661401 | Spiked | Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Spike Concentration  |           | ng     |                                                               |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|--------------------------------------------|--------------------------|
| 0          | 33.1               | 22                              | 1                                          | 9                        |
| 5          | 38.2               | 27                              | 1                                          | 9                        |
| 10         | 43.3               | 27                              | 1                                          | 9                        |
| 15         | 48.4               | 27                              | 1                                          | 9                        |
| 20         | 53.5               | 27                              | 1                                          | 9                        |
| 25         | 58.0               | 27                              | 1                                          | 9                        |
| 30         | 62.5               | 27                              | 1                                          | 9                        |
| 35         | 67.3               | 27                              | 1                                          | 9                        |
| 40         | 72.4               | 27                              | 1                                          | 9                        |
| 45         | 77.5               | 27                              | 1                                          | 9                        |
| 50         | 82.6               | 27                              | 1                                          | 9                        |
| 55         | 87.7               | 27                              | 1                                          | 9                        |
| 60         | 92.8               | 27                              | 1                                          | 9                        |

|              |       |                    |                  |                   |     |
|--------------|-------|--------------------|------------------|-------------------|-----|
| Start Time:  | 14:00 | Initial Leak Check | 0.01 LPM@ 15 "Hg | DGMCF:            | 997 |
| Finish Time: | 15:00 | Final Leak Check   | 0.01 LPM@ 15 "Hg | Sample Volume:    |     |
|              |       |                    |                  | Average DGM Temp: |     |
|              |       |                    |                  | Average DGM Δ H:  |     |

|           |    |
|-----------|----|
| Operator: | ST |
|-----------|----|

# ORTECH Mercury Tube Data Sheet

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | MAY 25 / 22     |
| Project No.:   | 22147           |

Train A

|                      |           |        |          |
|----------------------|-----------|--------|----------|
| Tube Identification: | OL 661358 | Spiked | Yes (No) |
| Spike Concentration  | →         | ng     |          |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M09898    |
| Barometer        | ENV. CAN. |

|                     |         |
|---------------------|---------|
| Barometric Pressure | 1 29.45 |
|---------------------|---------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|-----------------------------|
| 0          | 17.2               | 20                              | 2                                         | 10                          |
| 5          | 19.1               | 21                              | 2                                         | 10                          |
| 10         | 24.6               | 21                              | 2                                         | 10                          |
| 15         | 30.0               | 21                              | 2                                         | 10                          |
| 20         | 35.2               | 22                              | 2                                         | 10                          |
| 25         | 40.5               | 22                              | 2                                         | 10                          |
| 30         | 45.6               | 22                              | 2                                         | 10                          |
| 35         | 50.8               | 22                              | 2                                         | 10                          |
| 40         | 56.2               | 22                              | 2                                         | 10                          |
| 45         | 61.4               | 22                              | 2                                         | 10                          |
| 50         | 66.6               | 22                              | 2                                         | 10                          |
| 55         | 71.8               | 22                              | 2                                         | 10                          |
| 60         | 77.1               | 22                              | 2                                         | 10                          |

|              |       |                    |                   |                   |      |
|--------------|-------|--------------------|-------------------|-------------------|------|
| Start Time:  | 15:35 | Initial Leak Check | .005 LPM@ -15 "Hg | DGMCF:            | .983 |
| Finish Time: | 16:35 | Final Leak Check   | .005 LPM@ 13 "Hg  | Sample Volume:    |      |
|              |       |                    |                   | Average DGM Temp: |      |
|              |       |                    |                   | Average DGM Δ H:  |      |

Train B

|                      |           |        |          |                  |        |
|----------------------|-----------|--------|----------|------------------|--------|
| Tube Identification: | OL 620140 | Spiked | Yes (No) | Measuring Device | MII    |
| Spike Concentration  | 1000      | ng     |          | Control Module   | A12010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg<br>Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|-----------------------------|
| 0          | 93.1               | 21                              | 1                                         | 10                          |
| 5          | 98.3               | 24                              | 1                                         | 10                          |
| 10         | 103.3              | 24                              | 1                                         | 10                          |
| 15         | 108.3              | 24                              | 1                                         | 10                          |
| 20         | 113.2              | 25                              | 1                                         | 10                          |
| 25         | 118.1              | 26                              | 1                                         | 10                          |
| 30         | 122.9              | 28                              | 1                                         | 11                          |
| 35         | 128.3              | 28                              | 1                                         | 11                          |
| 40         | 133.7              | 28                              | 1                                         | 11                          |
| 45         | 139.0              | 28                              | 1                                         | 11                          |
| 50         | 144.4              | 27                              | 1                                         | 11                          |
| 55         | 149.5              | 27                              | 1                                         | 11                          |
| 60         | 154.3              | 27                              | 1                                         | 11                          |

|              |       |                    |                  |                   |      |
|--------------|-------|--------------------|------------------|-------------------|------|
| Start Time:  | 15:36 | Initial Leak Check | .005 LPM@ 15 "Hg | DGMCF:            | .977 |
| Finish Time: | 16:36 | Final Leak Check   | .005 LPM@ 15 "Hg | Sample Volume:    |      |
|              |       |                    |                  | Average DGM Temp: |      |
|              |       |                    |                  | Average DGM Δ H:  |      |

|           |    |
|-----------|----|
| Operator: | ST |
|-----------|----|

**ORTECH  
Mercury Tube Data Sheet**

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

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MAY 25/22       |
| Project No.:   | 22147           |

Train A

|                      |                        |        |     |    |
|----------------------|------------------------|--------|-----|----|
| Tube Identification: | 02610624               | Spiked | Yes | No |
| Spike Concentration  | <del>22.00</del> 22.00 | ng     |     |    |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | M05499    |
| Barometer        | ENV. CAN. |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.43 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|--------------------------|
| 0          | 77.7               | 20                              | 2                                         | 10                       |
| 5          | 82.7               | 21                              | 2                                         | 10                       |
| 10         | 88.2               | 21                              | 2                                         | 10                       |
| 15         | 93.2               | 21                              | 2                                         | 10                       |
| 20         | 98.2               | 21                              | 2                                         | 10                       |
| 25         | 103.7              | 21                              | 2                                         | 10                       |
| 30         | 111.6              | 21                              | 2                                         | 10                       |
| 35         | 116.0              | 21                              | 2                                         | 10                       |
| 40         | 121.9              | 21                              | 2                                         | 10                       |
| 45         | 127.0              | 21                              | 2                                         | 10                       |
| 50         | 132.7              | 21                              | 2                                         | 10                       |
| 55         | 138.5              | 21                              | 2                                         | 10                       |
| 60         | 144.0              | 20                              | 2                                         | 10                       |

|              |       |                     |                 |                   |      |
|--------------|-------|---------------------|-----------------|-------------------|------|
| Start Time:  | 16:49 | Initial Leak Check: | 003 LPM@ 15 "Hg | DGMCF:            | .983 |
| Finish Time: | 17:49 | Final Leak Check:   | 003 LPM@ 15 "Hg | Sample Volume:    |      |
|              |       |                     |                 | Average DGM Temp: |      |
|              |       |                     |                 | Average DGM Δ H:  |      |

Train B

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | 02661369 | Spiked | Yes | No |
| Spike Concentration  |          | ng     |     |    |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A02010 |

| Clock Time | Dry Gas Meter<br>L | Average Meter Temperature<br>°C | Meter Pressure<br>Δ H<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|---------------------------------|-------------------------------------------|--------------------------|
| 0          | 59.3               | 23                              | 1                                         | 10                       |
| 5          | 60.9               | 24                              | 1                                         | 10                       |
| 10         | 65.8               | 25                              | 1                                         | 10                       |
| 15         | 70.7               | 25                              | 1                                         | 10                       |
| 20         | 75.6               | 24                              | 1                                         | 10                       |
| 25         | 80.5               | 26                              | 1                                         | 10                       |
| 30         | 85.5               | 26                              | 1                                         | 10                       |
| 35         | 90.4               | 26                              | 1                                         | 10                       |
| 40         | 95.3               | 25                              | 1                                         | 10                       |
| 45         | 100.2              | 25                              | 1                                         | 10                       |
| 50         | 105.1              | 25                              | 1                                         | 10                       |
| 55         | 109.7              | 25                              | 1                                         | 10                       |
| 60         | 114.5              | 24                              | 1                                         | 10                       |

|              |       |                     |                 |                   |      |
|--------------|-------|---------------------|-----------------|-------------------|------|
| Start Time:  | 16:50 | Initial Leak Check: | 003 LPM@ 15 "Hg | DGMCF:            | .997 |
| Finish Time: | 17:50 | Final Leak Check:   | 003 LPM@ 15 "Hg | Sample Volume:    |      |
|              |       |                     |                 | Average DGM Temp: |      |
|              |       |                     |                 | Average DGM Δ H:  |      |

|           |    |
|-----------|----|
| Operator: | BT |
|-----------|----|

**APPENDIX 5**

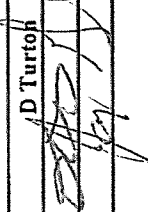
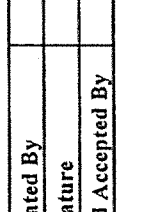
**ORTECH Equipment Calibration Data  
(12 pages)**

# ORTECH Environmental

## Dry Gas Meter Calibration Data

|                       |              |
|-----------------------|--------------|
| Calibration Procedure | 03-J004      |
| Meter Number          | M05498       |
| Date                  | May 26, 2022 |
| Barometric Pressure   | 29.65        |
| System Leak Check     | NDL @ 21' Hg |

| MII NUMBERS |           |
|-------------|-----------|
| DGM         | M05498    |
| Gasometer   | A01463    |
| Barometer   | COE 20028 |

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Calibrated By            | D Turton                                                                          |
| Signature                |  |
| Reviewed and Accepted By |  |

$ft^3 = cm^3 \times 1.332$  litres per cm<sup>3</sup> / 28.3168 litres per ft<sup>3</sup>

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

| Gasometer Reading |       | Gasometer Volume<br>ft <sup>3</sup> | Gasometer Temperature<br>°C | DGM Reading |        | DGM Volume<br>ft <sup>3</sup> | DGM Average Temperature<br>°C | DGM Pressure<br>in. H <sub>2</sub> O | DGM Outlet<br>°C | DGM Calibration<br>Factor | Time<br>min. | Flow<br>Rate<br>lpm |
|-------------------|-------|-------------------------------------|-----------------------------|-------------|--------|-------------------------------|-------------------------------|--------------------------------------|------------------|---------------------------|--------------|---------------------|
| Initial           | Final |                                     |                             | Initial     | Final  |                               |                               |                                      |                  |                           |              |                     |
| 44.00             | 31.30 | 12.70                               | 23.0                        | 51.55       | 69.00  | 0.616                         | 31.0                          | 2.0                                  | 31.0             | 0.991                     | 15           | 1.2                 |
| 31.30             | 18.60 | 12.70                               | 23.0                        | 69.00       | 86.56  | 0.620                         | 32.0                          | 2.0                                  | 32.0             | 0.988                     | 15           | 1.2                 |
| 71.20             | 58.80 | 12.40                               | 23.0                        | 86.56       | 104.05 | 0.618                         | 33.0                          | 2.0                                  | 33.0             | 0.971                     | 15           | 1.2                 |

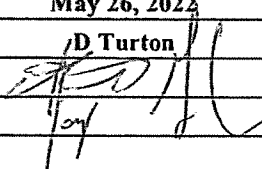
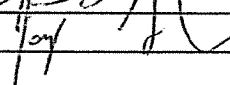
**Acceptance Criteria:**

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

DGMCF AVERAGE  
1Lpm 0.983



**ORTECH Environmental  
Trendicator Calibration**

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Calibration Procedure    | 03-J005                                                                            |
| Trendicator Type         | Nutech                                                                             |
| MI                       | M05498                                                                             |
| Date                     | May 26, 2022                                                                       |
| Calibrated By            | D Turton                                                                           |
| Signature                |  |
| Reviewed and Accepted By |  |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Trendicator Display Value |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | N/A                      | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 101                       |                          | -1.0                         |
| 150                                            | 151                       |                          | -0.7                         |
| 200                                            | 200                       |                          | 0.0                          |
| 300                                            | 300                       |                          | 0.0                          |
| 400                                            | 400                       |                          | 0.0                          |
| 500                                            | 500                       |                          | 0.0                          |
| 600                                            | 600                       |                          | 0.0                          |

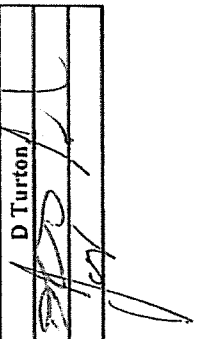
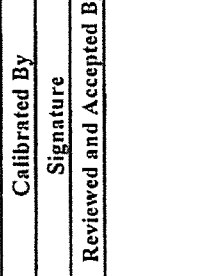
$$\% \text{ Difference} = \frac{(\text{micromite} - \text{after adjustment reading}) \times 100}{\text{micromite}}$$

**Acceptance Criteria:**

Trendicator display must read within  $\pm 1.5\%$  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

## Dry Gas Meter Calibration Data

|                       |               |                                                                                                            |
|-----------------------|---------------|------------------------------------------------------------------------------------------------------------|
| Calibration Procedure | 03-J004       | MII NUMBERS                                                                                                |
| Meter Number          | Yost 3        | DGM A12010                                                                                                 |
| Date                  | May 26, 2022  | Gasometer A01463                                                                                           |
| Barometric Pressure   | 29.65         | Barometer COE 20028                                                                                        |
| System Leak Check     | NDL @ 20 " Hg | Calibrated By D Turton                                                                                     |
|                       |               | Signature                 |
|                       |               | Reviewed and Accepted By  |

$ft^3 = cm^3 \times 1.332$  litres per cm<sup>3</sup>/28.3168 litres per ft<sup>3</sup>

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

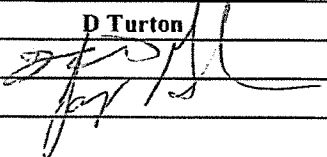
| Gasometer Reading |       | Gasometer Volume | Gasometer Temperature | DGM Reading |         | DGM Volume | DGM Average Temperature | DGM Pressure | DGM Outlet | DGM Calibration Factor | Time | Flow Rate |
|-------------------|-------|------------------|-----------------------|-------------|---------|------------|-------------------------|--------------|------------|------------------------|------|-----------|
| cm                | cm    |                  |                       | L           | Initial |            |                         |              |            |                        |      |           |
| Initial           | 57.90 | 0.532            | 23.0                  | 5.60        | 21.20   | 0.551      | 34.0                    | 0.8          | 34.0       | 0.999                  | 15   | 1.0       |
| Final             | 46.60 | 0.532            | 23.0                  | 21.20       | 36.85   | 0.553      | 35.0                    | 0.8          | 35.0       | 0.999                  | 15   | 1.0       |
|                   | 35.30 | 0.532            | 23.0                  | 36.85       | 52.63   | 0.557      | 36.0                    | 0.8          | 36.0       | 0.994                  | 15   | 1.1       |

**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  $1.00 \pm 0.05$ , otherwise the meter must be repaired and/or adjusted as necessary and recalibrated prior to use. (Environment Canada Reference Method EPS 1/RM/8, Section 6)

DGMCF AVERAGE  
1 Lpm 0.997

**ORTECH**  
**Trendicator Calibration**

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Calibration Procedure    | 03-J005                                                                            |
| Trendicator Type         | Nutech                                                                             |
| MII                      | A12010                                                                             |
| Date                     | May 26, 2022                                                                       |
| Calibrated By            | D Turton                                                                           |
| Signature                |  |
| Reviewed and Accepted By |                                                                                    |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Trendicator Display Value |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | NA                       | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 101                       |                          | -1.0                         |
| 150                                            | 151                       |                          | -0.7                         |
| 200                                            | 200                       |                          | 0.0                          |
| 300                                            | 300                       |                          | 0.0                          |
| 400                                            | 400                       |                          | 0.0                          |
| 500                                            | 499                       |                          | 0.2                          |
| 600                                            | 600                       |                          | 0.0                          |

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



**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

## Dry Gas Meter Calibration Data

|                       |                         |                     |
|-----------------------|-------------------------|---------------------|
| Calibration Procedure | 03-J004                 | MII NUMBERS         |
| Meter Number          | Vost 3                  | DGM A12010          |
| Date                  | April 5, 2022           | Gasometer A01463    |
| Barometric Pressure   | 29.59                   | Barometer COE 20028 |
| System Leak Check     | NDL & <0.005 LPM @ " Hg |                     |

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Calibrated By            | D Turton                                                                          |
| Signature                |  |
| Reviewed and Accepted By |  |

$ft^3 = cm^3 \times 1.322$  litres per cm<sup>3</sup> / 28.3168 litres per ft<sup>3</sup>

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


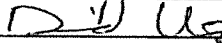
| Initial | Gasometer Reading |       | Gasometer Volume ft <sup>3</sup> | Gasometer Temperature °C | DGM Reading |         | DGM Volume ft <sup>3</sup> | DGM Average Temperature °C | DGM Pressure in. H <sub>2</sub> O | DGM Outlet °C | DGM Calibration Factor | Time min. | Flow Rate lpm |
|---------|-------------------|-------|----------------------------------|--------------------------|-------------|---------|----------------------------|----------------------------|-----------------------------------|---------------|------------------------|-----------|---------------|
|         | Final             | cm    |                                  |                          | L           | Initial |                            |                            |                                   |               |                        |           |               |
| 36.05   | 24.00             | 12.05 | 0.567                            | 21.0                     | 96.30       | 112.88  | 0.586                      | 29.0                       | 1.0                               | 29.0          | 0.992                  | 15        | 1.1           |
| 24.00   | 12.00             | 12.00 | 0.564                            | 21.0                     | 12.88       | 29.65   | 0.592                      | 30.0                       | 1.0                               | 30.0          | 0.980                  | 15        | 1.1           |
| 48.00   | 36.05             | 11.95 | 0.562                            | 21.0                     | 79.60       | 96.30   | 0.590                      | 29.0                       | 1.0                               | 29.0          | 0.977                  | 15        | 1.1           |

**Acceptance Criteria:**

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

**DGMCF AVERAGE**  
1 Lpm 0.983

## ORTECH Trendicator Calibration

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Calibration Procedure    | 03-J005                                                                            |
| Trendicator Type         | Nutech                                                                             |
| MII                      | A12010                                                                             |
| Date                     | April 5, 2022                                                                      |
| Calibrated By            | D Turton                                                                           |
| Signature                |  |
| Reviewed and Accepted By |  |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Trendicator Display Value |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | NA                       | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 99                        |                          | 1.0                          |
| 150                                            | 149                       |                          | 0.7                          |
| 200                                            | 200                       |                          | 0.0                          |
| 300                                            | 301                       |                          | -0.3                         |
| 400                                            | 400                       |                          | 0.0                          |
| 500                                            | 500                       |                          | 0.0                          |
| 600                                            | 601                       |                          | -0.2                         |

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


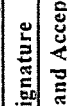
### Acceptance Criteria:

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

## Dry Gas Meter Calibration Data

|                       |                     |             |
|-----------------------|---------------------|-------------|
| Calibration Procedure | 03-J004             | MII NUMBERS |
| Meter Number          | Vost 5              | DGM         |
| Date                  | January 25, 2022    | Gasometer   |
| Barometric Pressure   | 29.56               | Barometer   |
| System Leak Check     | < 0.001LPM @ 22" Hg |             |

|                          |                                                                                   |           |
|--------------------------|-----------------------------------------------------------------------------------|-----------|
|                          | COE 20018                                                                         | DGM       |
|                          | A01463                                                                            | Gasometer |
|                          | COE 20028                                                                         | Barometer |
| Calibrated By            | Blair McIntyre                                                                    |           |
| Signature                |  |           |
| Reviewed and Accepted By |  |           |

$ft^3 = cm^3 \times 1.332$  litres per cm<sup>3</sup>/28.3168 litres per ft<sup>3</sup>

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

| Gasometer Reading<br>cm | Gasometer Volume<br>ft <sup>3</sup> |       | Gasometer Temperature<br>°C |      | DGM Reading<br>L |       | DGM Volume<br>ft <sup>3</sup> | DGM Average Temperature<br>°C | DGM Pressure<br>in. H <sub>2</sub> O | DGM Outlet<br>°C | DGM Calibration<br>Factor | Time<br>min. | Flow<br>Rate<br>lpm |
|-------------------------|-------------------------------------|-------|-----------------------------|------|------------------|-------|-------------------------------|-------------------------------|--------------------------------------|------------------|---------------------------|--------------|---------------------|
|                         | Initial                             | Final | cm                          | cm   | Initial          | Final |                               |                               |                                      |                  |                           |              |                     |
| 46.20                   | 33.80                               | 12.40 | 19.0                        | 19.0 | 54.35            | 70.58 | 0.573                         | 21.0                          | 1.6                                  | 21.0             | 1.021                     | 15           | 1.1                 |
| 33.80                   | 23.60                               | 10.20 | 19.0                        | 19.0 | 70.58            | 84.15 | 0.479                         | 22.0                          | 1.5                                  | 22.0             | 1.008                     | 15           | 0.9                 |
| 23.20                   | 13.10                               | 10.10 | 19.0                        | 19.0 | 84.30            | 97.52 | 0.467                         | 22.0                          | 1.5                                  | 22.0             | 1.024                     | 15           | 0.9                 |

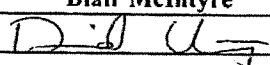
**Acceptance Criteria:**

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

**DGMCF AVERAGE**

1Lpm 1.018

## ORTECH Trendicator Calibration

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Calibration Procedure    | 03-J005                                                                            |
| Trendicator Type         | Jenco 765                                                                          |
| MII                      | COE 20018                                                                          |
| Date                     | January 25, 2022                                                                   |
| Calibrated By            | Blair McIntyre                                                                     |
| Signature                |  |
| Reviewed and Accepted By |                                                                                    |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Tredicator Display Value  |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | NA                       | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 101                       |                          | -1.0                         |
| 150                                            | 150                       |                          | 0.0                          |
| 200                                            | 199                       |                          | 0.5                          |
| 300                                            | 299                       |                          | 0.3                          |
| 400                                            | 399                       |                          | 0.3                          |
| 500                                            | 498                       |                          | 0.4                          |
| 600                                            | 598                       |                          | 0.3                          |

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

**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

## Dry Gas Meter Calibration Data

|                       |               |
|-----------------------|---------------|
| Calibration Procedure | 03-J004       |
| Meter Number          | Vost 4        |
| Date                  | Jan. 24, 2022 |
| Barometric Pressure   | 29.38         |
| System Leak Check     | <0.01@22"Hg   |

|                          |                    |
|--------------------------|--------------------|
| MII NUMBERS              |                    |
| DGM                      | A11542             |
| Gasometer                | A01463             |
| Barometer                | COE 20028          |
| Calibrated By            | Blair McIntyre     |
| Signature                | <i>[Signature]</i> |
| Reviewed and Accepted By | <i>[Signature]</i> |

ft<sup>3</sup> = cm<sup>3</sup> × 1.332 litres per cm<sup>3</sup> / 28.3168 litres per ft<sup>3</sup>

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

| Gasometer Reading |       | Gasometer Volume | Gasometer Temperature | DGM Reading |       | DGM Volume      | DGM Average Temperature | DGM Pressure         | DGM Outlet | DGM Calibration | Time | Flow Rate |
|-------------------|-------|------------------|-----------------------|-------------|-------|-----------------|-------------------------|----------------------|------------|-----------------|------|-----------|
| Initial           | Final | cm               | °C                    | Initial     | Final | ft <sup>3</sup> | °C                      | in. H <sub>2</sub> O | °C         | Factor          | min. | lpm       |
| 41.90             | 30.20 | 11.70            | 19.0                  | 60.88       | 77.07 | 0.572           | 29.0                    | 0.5                  | 29.0       | 0.994           | 15   | 1.1       |
| 53.80             | 42.20 | 11.60            | 19.0                  | 10.80       | 26.63 | 0.559           | 30.0                    | 0.6                  | 30.0       | 1.011           | 15   | 1.1       |
| 30.20             | 18.60 | 11.60            | 19.0                  | 77.07       | 93.28 | 0.572           | 30.0                    | 0.6                  | 30.0       | 0.988           | 15   | 1.1       |

### Acceptance Criteria:

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

DGMCF AVERAGE 0.998  
 1 Lpm



## ORTECH Trendicator Calibration

|                          |                    |
|--------------------------|--------------------|
| Calibration Procedure    | 03-J005            |
| Trendicator Type         | Nutech             |
| MII                      | A11542             |
| Date                     | January 24, 2022   |
| Calibrated By            | Blair McIntyre     |
| Signature                | <i>[Signature]</i> |
| Reviewed and Accepted By | <i>[Signature]</i> |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Tredicator Display Value  |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | NA                       | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 100                       |                          | 0.0                          |
| 150                                            | 151                       |                          | -0.7                         |
| 200                                            | 201                       |                          | -0.5                         |
| 300                                            | 300                       |                          | 0.0                          |
| 400                                            | 401                       |                          | -0.3                         |
| 500                                            | 501                       |                          | -0.2                         |
| 600                                            | 602                       |                          | -0.3                         |

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

**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                   | MIH NUMBERS         |
| Meter Number          | M05498                    | DGM M05498          |
| Date                  | April 5, 2022             | Gasometer A01463    |
| Barometric Pressure   | 29.56                     | Barometer COE 20028 |
| System Leak Check     | NDL & <0.005 lpm @ 22' Hg |                     |

$ft^3 = cm^3 \times 1.332$  litres per cm<sup>3</sup>/28.3168 litres per ft<sup>3</sup>

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


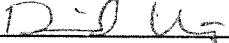
|                          |          |
|--------------------------|----------|
| Calibrated By            | D Turton |
| Signature                |          |
| Reviewed and Accepted By |          |

| Gasometer Reading<br>cm | Gasometer Reading |       | Gasometer<br>Volume<br>ft <sup>3</sup> | Gasometer<br>Temperature<br>°C | DGM Reading |         | DGM<br>Volume<br>ft <sup>3</sup> | DGM Average<br>Temperature<br>°C | DGM<br>Pressure<br>in. H <sub>2</sub> O | DGM<br>Outlet<br>°C | DGM<br>Calibration<br>Factor | Time<br>min. | Flow<br>Rate<br>lpm |
|-------------------------|-------------------|-------|----------------------------------------|--------------------------------|-------------|---------|----------------------------------|----------------------------------|-----------------------------------------|---------------------|------------------------------|--------------|---------------------|
|                         | Initial           | Final |                                        |                                | L           | Initial |                                  |                                  |                                         |                     |                              |              |                     |
| 36.70                   | 23.60             | 13.10 | 0.616                                  | 21.0                           | 2.64        | 20.28   | 0.623                            | 26.0                             | 2.0                                     | 26.0                | 1.001                        | 15           | 1.2                 |
| 62.30                   | 49.60             | 12.70 | 0.597                                  | 21.0                           | 67.84       | 85.19   | 0.613                            | 25.0                             | 2.0                                     | 25.0                | 0.983                        | 15           | 1.2                 |
| 49.60                   | 36.70             | 12.90 | 0.607                                  | 21.0                           | 85.19       | 102.64  | 0.616                            | 26.0                             | 2.0                                     | 26.0                | 0.996                        | 15           | 1.2                 |

DGMCF AVERAGE  
1 Lpm 0.994

**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         | Nutech                                                                             |
| MI                       | M05498                                                                             |
| Date                     | April 5, 2022                                                                      |
| Calibrated By            | D Turton                                                                           |
| Signature                |  |
| Reviewed and Accepted By |  |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Trendicator Display Value |                          | Percent<br>Difference<br>(%) |
|------------------------------------------------|---------------------------|--------------------------|------------------------------|
|                                                | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0                                              | 0                         | NA                       | 0.0                          |
| 20                                             | 20                        |                          | 0.0                          |
| 50                                             | 50                        |                          | 0.0                          |
| 100                                            | 101                       |                          | -1.0                         |
| 150                                            | 151                       |                          | -0.7                         |
| 200                                            | 200                       |                          | 0.0                          |
| 300                                            | 300                       |                          | 0.0                          |
| 400                                            | 399                       |                          | 0.3                          |
| 500                                            | 499                       |                          | 0.2                          |
| 600                                            | 599                       |                          | 0.2                          |

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

### 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)

**APPENDIX 6**

**Mercury Analytical Reports  
(43 pages)**

# Sediment Trap Analysis Report

Date | 3/9/22 | Method | EPA 7473  
 Analyst[s] | Christian Mammana | Method Uncertainty | ± 10%  
 Project | 2028056 | MDL | 0.42 ng  
 Turnaround | Standard | LOQ | 2 ng  
 Company | ORTECH  
 Contact | Jay Grollman  
 Phone | Not Provided  
 Email | jgrollman@ortech.ca

| Trap ID               | Pre-Filter Mass [ng] | AGS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Total Mass [ng] <sup>1</sup> | Section 3 Mass [ng] | Spike Level [ng] | Breakthrough [%] <sup>2</sup> | Spike Recovery [%] <sup>3</sup> | Source | Notes               | Affected Section |
|-----------------------|----------------------|---------------|---------------------|---------------------|------------------------------|---------------------|------------------|-------------------------------|---------------------------------|--------|---------------------|------------------|
| OL618358              |                      |               | 370.3               | 1.6                 | 371.9                        |                     | 100              | 0.4%                          | N/A                             |        |                     |                  |
| OL632987              |                      |               | 158.3               | 0.4                 | 158.7                        |                     |                  | 0.3%                          |                                 |        |                     |                  |
| OL528932              |                      |               | 484.1               | 1.1                 | 485.2                        |                     | 250              | 0.2%                          | N/A                             |        |                     |                  |
| OL632815              |                      |               | 239.4               | 0.8                 | 240.2                        |                     |                  | 0.3%                          |                                 |        |                     |                  |
| OL569034              |                      |               | 712.0               | 0.8                 | 712.8                        |                     | 400              | 0.1%                          | N/A                             |        |                     |                  |
| OL632842              |                      |               | 162.8               | 0.4                 | 163.2                        |                     |                  | 0.2%                          |                                 |        |                     |                  |
| OL528841 <sup>R</sup> |                      |               | 1008                | 2.8                 | 1011                         |                     | 800              | 0.3%                          | N/A                             |        | Out of Range - High | S1               |
| OL535468 <sup>R</sup> |                      |               | 1129                | 1.1                 | 1130                         |                     | 600              | 0.1%                          | N/A                             |        | Out of Range - High | S1               |
| OL632943              |                      |               | 300.2               | 1.0                 | 301.2                        |                     |                  | 0.3%                          |                                 |        | Split Section       | S1               |



**ATTENTION! SOME OR ALL OF THE DATA HAVE BEEN FLAGGED.**  
 SEE NOTES OR CONTACT OHIO LUMEX FOR DETAILS  
**ATTENTION: A response factor was used to calculate certain values on this report. Italicized masses appear on the report as rounded to the nearest tenth nanogram.**

<sup>1</sup> Total Mass = PF+AGS+S1+S2  
<sup>2</sup> Breakthrough = S2 / (PF+AGS+S1)  
<sup>3</sup> For PS12B only Spike Recovery = S3 / Spike Level  
<sup>R</sup> Data invalidation qualifier - refer to notes

Analyst: Christian Mammone  
 File Name: Z20309\_CM\_ORTECH\_2028056\_2  
 Analyzer: 1647  
 Cell type: Short

Temperature [°C]: 650  
 Flow Rate [L/min]: 1.5  
 MDL [ng]: 0.42  
 SD: 1.1

| Trap ID | P1 Mass [ng]          | At 3 Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Section 3 Mass [ng] | Section 4 Mass [ng] | Spike Level [ng] | Source | Notes               | Affected Section |
|---------|-----------------------|----------------|---------------------|---------------------|---------------------|---------------------|------------------|--------|---------------------|------------------|
| 1       | OL618358              |                | 370.3               | 2.6                 |                     |                     |                  |        |                     |                  |
| 2       | OL632987              |                | 158.3               | 0.4                 |                     |                     |                  |        |                     |                  |
| 3       | OL528932              |                | 484.1               | 1.1                 |                     |                     |                  |        |                     |                  |
| 4       | OL632815              |                | 239.4               | 0.8                 |                     |                     |                  |        |                     |                  |
| 5       | OL569034              |                | 712.0               | 0.8                 |                     |                     |                  |        |                     |                  |
| 6       | OL632842              |                | 162.8               | 0.4                 |                     |                     |                  |        |                     |                  |
| 7       | OL528841 <sup>A</sup> |                | 1008                | 2.8                 |                     |                     |                  |        | Out of Range - High | S1               |
| 8       |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 9       | OL535468 <sup>A</sup> |                | 1129                | 1.1                 |                     |                     |                  |        | Out of Range - High | S1               |
| 10      | OL632943              |                | 300.2               | 1.0                 |                     |                     |                  |        | Split Section       | S1               |
| 11      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 12      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 13      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 14      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 15      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 16      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 17      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 18      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 19      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 20      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 21      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 22      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 23      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |
| 24      |                       |                |                     |                     |                     |                     |                  |        |                     |                  |

Additional Notes

| Daily Calibration <sup>1</sup>                    |           |                 | Continuing Calibration Verifications <sup>2</sup> |           |                 | Active Hg Standard Bank <sup>3</sup> |                       |                |            |
|---------------------------------------------------|-----------|-----------------|---------------------------------------------------|-----------|-----------------|--------------------------------------|-----------------------|----------------|------------|
| Lot Std. ID                                       | Std. [ng] | Calculated [ng] | Lot Std. ID                                       | Std. [ng] | Calculated [ng] | Kit Used                             | Concentration [µg/ml] | Lot Std. ID    | Exp. Date  |
| R2-MEB691333 A                                    | 2.0       | see cal. report | R2-MEB700115 B                                    | 90.0      | 90.0            |                                      |                       | S2-MEB701386 B | 10/21/2022 |
| R2-MEB691333 A                                    | 5.0       | see cal. report | R2-MEB700115 B                                    | 90.0      | 89.5            | 01                                   |                       | R2-MEB700115 B | 11/16/2022 |
| R2-MEB691333 A                                    | 10.0      | see cal. report | R2-MEB700115 B                                    | 90.0      | 89.8            | 1                                    |                       | R2-HG700207B   | 3/3/2023   |
| S2-MEB712974 A                                    | 100.0     | see cal. report |                                                   |           |                 | 10                                   |                       | R2-MEB691336 B | 11/30/2022 |
| S2-HG709270 A                                     | 500.0     | see cal. report |                                                   |           |                 | 100                                  |                       | P2-HG672030    | 3/3/2023   |
| S2-HG709270 A                                     | 1000.0    | see cal. report |                                                   |           |                 | 1000                                 |                       | R2-MEB691333 A | 5/28/2022  |
|                                                   |           |                 |                                                   |           |                 | 01                                   |                       | S2-MEB712974 A | 3/3/2023   |
| Independent Calibration Verification <sup>2</sup> |           |                 | Response Factor (Method 308 Only) <sup>4</sup>    |           |                 |                                      |                       | S2-HG709270 A  | 3/6/2023   |
| Lot Std. ID                                       | Std. [ng] | Calculated [ng] | Lot Std. ID                                       | Std. [ng] | Area/Mass       |                                      |                       | R2-MEB691336 A | 9/10/2022  |
| P2-HG681569                                       | 90.0      | 89.0            | R2-MEB691333 A                                    | 1.0       | 216.7           | 100                                  |                       | P2-HG681569    | 5/29/2022  |
| Pipette Identification                            |           |                 | RF Pipette ID (if different from cal)             |           |                 | 1 (Independent)                      |                       | R2-MEB691339   | 1/11/2023  |
| A6                                                |           |                 |                                                   |           |                 | 10 (Independent)                     |                       | P2-MEB691004   | 2/8/2023   |
|                                                   |           |                 |                                                   |           |                 | 100 (Independent)                    |                       |                |            |

<sup>1</sup> Performed daily prior to analysis of sorbent traps. Refer to SOP for Instrument Calibration for acceptance criteria

<sup>2</sup> Performed immediately after calibration curve is verified, must come within 10% of expected value

<sup>3</sup> Performed between every 10 samples for method 308 and after every analytical batch

<sup>4</sup> Response factor value must fall between the 10% and 120%

Subject to change, for analyst convenience only

<sup>5</sup> Data invalidation qualifier - refer to notes

Analyst Signature

*Christian Mammone*

Date

3/9/22

Immediately report any QA/QC failures or anything suspicious to the QA/QC Manager



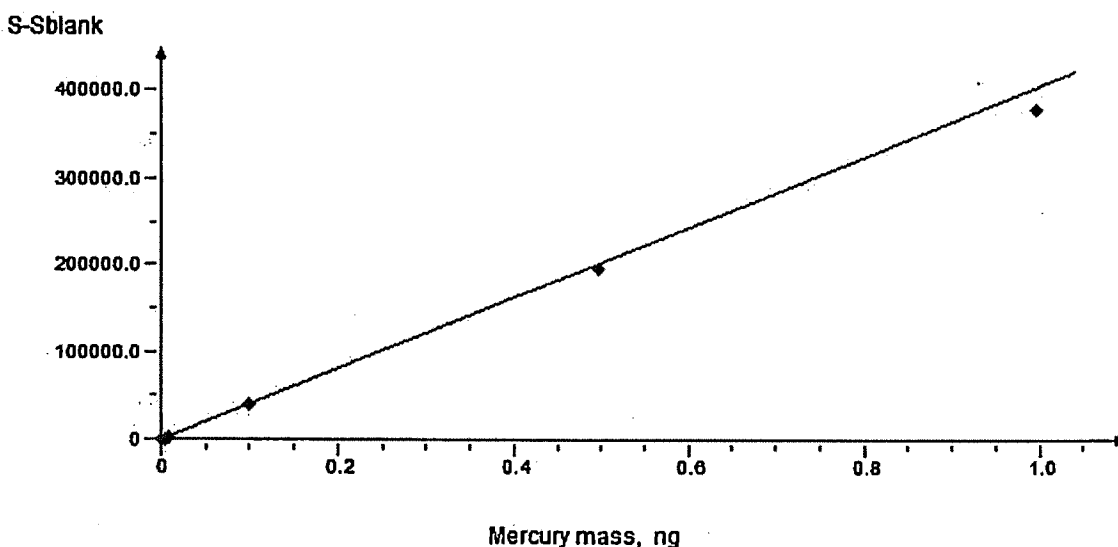
# REPORT

Report created 09.03.2022 09:45:42

Instrument RA915M Serial number 1642

Calibration created 09.03.2022 09:45:36

Calibration name 220309\_ENC\_2-1000ng



## Results

| N | Mercury mass, ng | S-Blank | Ref.data, ng/l | Calculated, ng/l | d, % |
|---|------------------|---------|----------------|------------------|------|
| 1 | 1.00             | 382000  | 1000.0         | 934.9            | -6.5 |
| 2 | 0.50             | 197900  | 500.0          | 484.3            | -3.1 |
| 3 | 0.10             | 40320   | 100.0          | 98.7             | -1.3 |
| 4 | 0.01             | 4224    | 10.0           | 10.3             | 3.4  |
| 5 | 0.01             | 2099    | 5.0            | 5.1              | 2.8  |
| 6 | 0.00             | 857     | 2.0            | 2.1              | 4.8  |

Calibration S - Sblank = a·m

Algorithm WLSM

Correlation coefficient 0.999872

Residual standard deviation 21.183447

Coefficient a = 408600.0000



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL618358

Unspiked  Spiked At: 100ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) [Signature]

Production Lot: S-4B59 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 1/20/2022 Spike Time: 1030 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CH. SANDRA PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 1020  
Date Time

Sampling Location: STACK  
*(stack, FGD inlet, etc.)*

Run Number (optional): 1 Run END: FEB 23, 2022 1120  
Date Time

Sampling Train (circle one): A - B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) 424 or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                       |               |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|-----------------------|---------------|--------------|--------------------------------------------------------------------------------------|
|                                                                                                          | Signature             | Date          | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                       |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                       |               |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                       |               |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                       |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                       |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u>    | <u>3/9/22</u> | <u>10:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>Christina M...</u> | <u>3/9/22</u> | <u>1011</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2025





Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



Trap ID

OL632987

Unspiked Spiked At:

Spiking Method Cold Vapor Adsorption Via Impinger Sparging Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly)

QA/QC Signature (Spike)

Production Lot: U-1096 Carbon Lot: 4C

- High Flow, Static Pre-filter, Fluffy Pre-filter, AGS, 185 mm, 240 mm, 300 mm, 450 mm

Spike Date: Spike Time: Type of Trap: 30B

TO BE FILLED OUT BY SAMPLING TECHNICIAN

Plant/Source: PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: Run START: FEB 23, 2022 1020 Date Time

Sampling Location: STACK (stack, FGD inlet, etc.)

Run Number (optional): Run END: FEB 23, 2022 1120 Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes:

SAMPLING CONDITIONS AND PARAMETERS

Ave Duct Temp (F): Estimated Ave Hg Concentration (µg/dscm):

Ave Trap Temp (F): Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): STARTUP SHUTDOWN

Total Volume (L) 48.7 or (dscm): For CEMENT KILNS Only No. of RAW MILL OFF Events During Sampling:

REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS

Estimated Hg Mass in Section 1 of Sorbent Trap (ng):

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

Chain Of Custody

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

Table with columns: Signature, Date, Time, Security Seal. Rows include Trap inserted by, Trap removed and sealed by, Courier/Other (If Applicable), Trap received by lab, and Trap analyzed by.

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 250ng  
 Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
 Certified Accuracy ± 10%, Traceable to NIST  
 Production Lot: S-39E4 Carbon Lot: 4C

QA/QC Signature (Trap Maker) [Signature]

QA/QC Signature (Spiker) [Signature]  
 High Flow  Coil Pre-filter  240 mm  
 Static Pre-filter  AGS  300 mm  
 Fluffy Pre-filter  185 mm  450 mm

Spike Date: 1/15/2020 Spike Time: 1055 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAF HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 11:30  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 2 Run END: FEB 23, 2022 12:30  
Date Time

Sampling Train (circle one): (A) B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) 35.1 or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**  
 No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature           | Date          | Time         | Security Seal                                                                        |
|-------------------------------|---------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                     |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                     |               |              |                                                                                      |
| Courier/Other (If Applicable) |                     |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                     |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u>  | <u>3/9/22</u> | <u>12:38</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>Chaston M...</u> | <u>3/9/22</u> | <u>1038</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: January 2023



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked     Spiked At: \_\_\_\_\_  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) \_\_\_\_\_  
 High Flow     Fluffy Pre-filter    1240 mm  
 Static Pre-filter     AQS    1300 mm  
 185 mm     1450 mm

Production Lot: U-1096    Carbon Lot: 4C

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAV HARBORS    PRE-Run Leak Check (circle one): PASS    FAIL

Boiler ID: \_\_\_\_\_    Run START: FEB 23, 2022    1130  
Date    Time

Sampling Location: SMOKE  
(stack, FGD inlet, etc.)

Run Number (optional): 2    Run END: FEB 23, 2022    1830  
Date    Time

Sampling Train (circle one):    A    B    POST-Run Leak Check (circle one):    PASS    FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_    Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_    Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_    **STARTUP**    **SHUTDOWN**

Total Volume (L) 72.4 or (dscm): \_\_\_\_\_    **For CEMENT KILNS Only**  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date          | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |               |              |                                                                                      |
| Courier/Other (If Applicable) |                    |               |              |                                                                                      |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>3/9/22</u> | <u>12:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>3/9/22</u> | <u>1046</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form

Trap ID  
 OL569034

Unspiked  Spiked At: 400ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging;  
Certified Accuracy ± 16%, Traceable to NIST

QA/QC Signature (Trap Assembly) JH

QA/QC Signature (Spike) JH

Production Lot: S-4B51 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- BAGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 1/19/2022 Spike Time: 1312 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HADDOUS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 1240  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 3 Run END: FEB 23, 2022 1340  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) 608 or (dscm): \_\_\_\_\_ For CEMENT KILNS Only

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |             |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|-------------|--------------------------------------------------------------------------------------|
|                                                                                                          | Signature          | Date           | Time        | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |             | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |             |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |             | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |                |             | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>3/12/22</u> | <u>1228</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>3/9/22</u>  | <u>1055</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2025



Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



OL632842

Unspiked  Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) \_\_\_\_\_

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-1092 Carbon Lot: 4C

- High Flow  Fluffy Pre-filter  240 mm
- Static Pre-filter  AGS  300 mm
- 185 mm  450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBOUR PRE-Run Leak Check (circle one): **PASS** FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 12:40  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 5 Run END: FEB 23, 2022 13:40  
Date Time

Sampling Train (circle one): A **B** POST-Run Leak Check (circle one): **PASS** FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>3/12/22</u> | <u>12:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>3/9/22</u>  | <u>1103</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon – Refer to SDS

Best Before: January 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form

Trap ID  
 OL528841

Unspiked  Spiked At: 800ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker)

QA/QC Signature (Spiker)

Production Lot: S-3A04 Carbon Lot: 4C

- High Flow
- Static Pre-filter
- Fluffy Pre-filter
- Coil Pre-filter
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Spike Date: 1/20/2020 Spike Time: 1523 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAV HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 1357  
Date Time

Sampling Location: STACK  
*(stack, FGD inlet, etc.)*

Run Number (optional): 4 Run END: FEB 23, 2022 1452  
Date Time

Sampling Train (circle one): (A) B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ For CEMENT KILNS Only  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature                 | Date          | Time         | Security Seal                                                                        |
|-------------------------------|---------------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                           |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                           |               |              |                                                                                      |
| Courier/Other (If Applicable) |                           |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                           |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          |                           | <u>3/2/22</u> | <u>12:38</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>Christopher Thomas</u> | <u>3/9/22</u> | <u>1109</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2023



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 600ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy = 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) [Signature]

Production Lot: S-3C75 Carbon Lot: 4C

- High Flow  Coil Pre-filter  240 mm
- Static Pre-filter  AGS  300 mm
- Fluffy Pre-filter  185 mm  450 mm

Spike Date: 4/24/2020 Spike Time: 0903 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEWAN HARBOR PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: FEB 23, 2022 1510  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 5 Run END: FEB 23, 2022 1610  
Date Time

Sampling Train (circle one): (A) B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) 69.2 or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature             | Date          | Time         | Security Seal                                                                        |
|-------------------------------|-----------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                       |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                       |               |              |                                                                                      |
| Courier/Other (If Applicable) |                       |               |              |                                                                                      |
| Courier/Other (If Applicable) |                       |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u>    | <u>3/2/22</u> | <u>11:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>Chadman Morris</u> | <u>3/9/22</u> | <u>11:25</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: April 2023



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL632943

**Unspiked**     **Spiked At:** \_\_\_\_\_  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) \_\_\_\_\_

Production Lot: U-1092    Carbon Lot: 4C

QA/QC Signature (Spike) \_\_\_\_\_  
 High Flow     Fluffy Pre-filter     240 mm  
 Static Pre-filter     AGS     300 mm  
 185 mm     450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS    PRE-Run Leak Check (circle one): PASS    FAIL

Boiler ID: \_\_\_\_\_    Run START: FEB 23 2022    1510  
Date    Time

Sampling Location: STACK  
(stack, EGD inlet, etc.)

Run Number (optional): 5    Run END: FEB 23 2022    1610  
Date    Time

Sampling Train (circle one):    A    B    POST-Run Leak Check (circle one): PASS    FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_    Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_    Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_    **STARTUP**    **SHUTDOWN**

Total Volume (L) 6.4 or (dscm): \_\_\_\_\_    For CEMENT KILNS Only  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature                | Date           | Time         | Security Seal                                                                        |
|-------------------------------|--------------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                          |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                          |                |              |                                                                                      |
| Courier/Other (If Applicable) |                          |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                          |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          |                          | <u>3/12/22</u> | <u>12:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>Christopher Mason</u> | <u>3/9/22</u>  | <u>1133</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

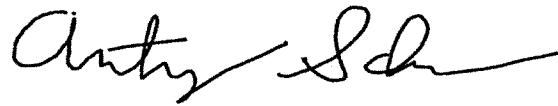
Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: January 2025



This report has been reviewed and approved by:

Anthony Schneider  
Directory of Laboratory Services and Analytical R&D

A handwritten signature in black ink, appearing to read "Anthony Schneider". The signature is fluid and cursive, with a long horizontal stroke at the end.

# Sorbent Trap Analysis Report

Date | 4/18/22

Analyst(s) | Christian Mammana

Project | 2028463

Turnaround | Standard

Company | ORTECH

Contact | Jay Grollman

Phone | Not Provided

Email | jgrollman@ortech.ca

Method | EPA 7473

Method Uncertainty | ± 10%

MDL | 0.6 ng

LOQ | 5 ng

| Trap ID  | Pre-Filter Mass [ng] | AGS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Section 3 Mass [ng] | Spike Level [ng] | Breakthrough [%] <sup>2</sup> | Spike Recovery [%] <sup>3</sup> | Source | Notes | Affected Section |
|----------|----------------------|---------------|---------------------|---------------------|---------------------|------------------|-------------------------------|---------------------------------|--------|-------|------------------|
| OL618334 |                      |               | 4163                | 10.5                |                     | 150              | 0.3%                          | N/A                             | 1      |       |                  |
| OL644591 |                      |               | 3623                | 2.6                 |                     |                  | 0.1%                          |                                 | 1      |       |                  |
| OL642499 |                      |               | 4187                | 5.1                 |                     |                  | 0.1%                          |                                 | 2      |       |                  |
| OL569052 |                      |               | 4284                | 8.2                 |                     | 300              | 0.2%                          | N/A                             | 2      |       |                  |
| OL568968 |                      |               | 4556                | 2.0                 |                     | 500              | 0.0%                          | N/A                             | 3      |       |                  |
| OL642359 |                      |               | 3135                | 1.1                 |                     |                  | 0.0%                          |                                 | 3      |       |                  |
| OL642442 |                      |               | 4033                | 3.8                 |                     |                  | 0.1%                          |                                 | 4      |       |                  |
| OL528850 |                      |               | 4883                | 3.5                 |                     | 800              | 0.1%                          | N/A                             | 4      |       |                  |

<sup>1</sup> Total Mass = PF+AGS+S1+S2

<sup>2</sup> Breakthrough = S2 / [PF+AGS+S1]

<sup>3</sup> For PS12B only Spike Recovery = S3 / Spike Level

<sup>4</sup> Data invalidation qualifier - refer to notes

ATTENTION: A response factor was used to calculate certain values on this report. **Italicized masses** appear on the report as rounded to the nearest tenth nanogram.



Analyst: Christian Mammanna  
 File Name: 220415\_CM\_ORTECH\_2028463  
 Analyzer: 1664  
 Cell type: Short

Temperature [°C]: 680  
 Flow Rate [L/min]: 1.5  
 MDL [ng]: 0.6  
 SD: 0.6

| Trap ID | FF Mass [ng] | AFS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Section 3 Mass [ng] | Section 4 Mass [ng] | Spike Level [ng] | Source | Notes | Affected Sections |
|---------|--------------|---------------|---------------------|---------------------|---------------------|---------------------|------------------|--------|-------|-------------------|
| 1       | OL618334     |               | 4163                | 10.5                |                     |                     |                  | 1      |       |                   |
| 2       | OL644591     |               | 3623                | 2.6                 |                     |                     |                  | 1      |       |                   |
| 3       | OLS69052     |               | 4284                | 8.2                 |                     |                     |                  | 2      |       |                   |
| 4       | OL642499     |               | 4187                | 5.1                 |                     |                     |                  | 2      |       |                   |
| 5       | OLS68968     |               | 4556                | 2.0                 |                     |                     |                  | 3      |       |                   |
| 6       | OL642359     |               | 3135                | 1.1                 |                     |                     |                  | 3      |       |                   |
| 7       | OLS28850     |               | 4883                | 3.5                 |                     |                     |                  | 4      |       |                   |
| 8       | OL642442     |               | 4033                | 3.8                 |                     |                     |                  | 4      |       |                   |
| 9       |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 10      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 11      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 12      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 13      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 14      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 15      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 16      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 17      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 18      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 19      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 20      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 21      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 22      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 23      |              |               |                     |                     |                     |                     |                  |        |       |                   |
| 24      |              |               |                     |                     |                     |                     |                  |        |       |                   |

Additional Notes

Daily Calibration<sup>1</sup>

| Lot Std. ID    | Std. [ng] | Calculated [ng] |
|----------------|-----------|-----------------|
| R1-MER691336 A | 5.0       | see cal. report |
| R2-MER691336 A | 10.0      | see cal. report |
| S2-MER712974 A | 100.0     | see cal. report |
| S2-HG709270 A  | 1000.0    | see cal. report |
| R2-MER691336 A | 5000.0    | see cal. report |
| R2-MER691336 A | 10000.0   | see cal. report |

Continuing Calibration Verifications<sup>2</sup>

| Lot Std. ID    | Std. [ng] | Calculated [ng] |
|----------------|-----------|-----------------|
| R2-MER691336 A | 1000.0    | 1005            |
| R2-MER691336 A | 1000.0    | 996.9           |
| R2-MER691336 A | 1000.0    | 996.5           |

Active Hg Standard Bank<sup>3</sup>

| Std Used                              | Concentration [ng/ml] | Lot Std. ID    | Exp. Date  |
|---------------------------------------|-----------------------|----------------|------------|
| <input checked="" type="checkbox"/> A |                       |                |            |
| <input type="checkbox"/> B            |                       |                |            |
| 0.1                                   |                       | S2-MER701386 B | 10/21/2022 |
| 1                                     |                       | R2-MER700115 B | 11/16/2022 |
| 10                                    |                       | R2-HG700202 B  | 3/3/2023   |
| 100                                   |                       | S2-MER708107 B | 3/31/2023  |
| 1000                                  |                       | P2-HG6677010   | 3/3/2023   |
| 0.1                                   |                       | R2-MER691333 A | 5/28/2022  |
| 1                                     |                       | S2-MER712974 A | 2/3/2023   |
| 10                                    |                       | S2-HG709270 A  | 3/4/2023   |
| 100                                   |                       | R2-MER691336 A | 9/10/2022  |
| 1 (Independent)                       |                       | P2-HG681569    | 6/29/2022  |
| 10 (Independent)                      |                       | R2-MER691336   | 1/31/2023  |
| 100 (Independent)                     |                       | P2-MER681004   | 2/9/2023   |

Independent Calibration Verification<sup>2</sup>

| Lot Std. ID  | Std. [ng] | Calculated [ng] |
|--------------|-----------|-----------------|
| R2-MER691336 | 1000.0    | 990.3           |

Response Factor (Method 308 Only)<sup>4</sup>

| Lot Std. ID    | Std. [ng] | Area/Mass |
|----------------|-----------|-----------|
| R2-MER691336 A | 5         | 56.7      |

Pipette Identification

A6  
 RF Pipette ID (if different from cal)

Method Blank measured mass<sup>5</sup>

1 (Independent)  
 10 (Independent)  
 100 (Independent)

Other Reagents

Sodium Carbonate 21349-1  
 Indicated Activated Carbon 1031

<sup>1</sup> Performed daily prior to analysis of sorbent traps. Refer to SOP for Instrument Calibration for acceptance criteria.

<sup>2</sup> Performed immediately after calibration curve is verified, must come within 10% of expected value.

<sup>3</sup> Performed between every 10 samples for method 308 and after every analytical batch.

<sup>4</sup> Response factor value must fall between the 100% and 120%.

<sup>5</sup> Subject to change, for analyst convenience only.

Method blank must be measured at a value less than 100.

<sup>6</sup> Data imputation qualifier - refer to notes.

Immediately report any QA/QC failures or anything suspicious to the QA/QC Manager.

Analyst Signature

*Christian Mammanna*

Date

4/19/22

By signing this report I confirm that the above data are true to the best of my knowledge.



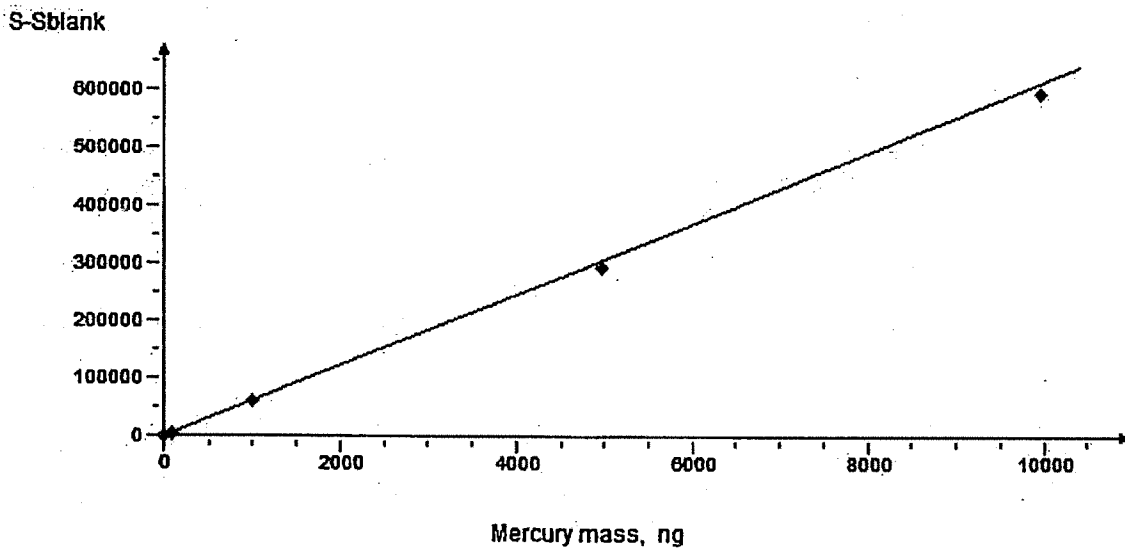
# REPORT

Report created 15.04.2022 14:36:48

Instrument RA915M Serial number 1644

Calibration created 15.04.2022 09:59:02

Calibration name 220415\_CM\_5-10000



## Results

| N | Mercury mass, ng | S-Blank | Ref.data, ng/g | Calculated, ng/g | d, % |
|---|------------------|---------|----------------|------------------|------|
| 1 | 5.00             | 322     | 5.0            | 5.2              | 4.3  |
| 2 | 10000.00         | 595700  | 10000.0        | 9652.9           | -3.5 |
| 3 | 5000.00          | 295600  | 5000.0         | 4790.4           | -4.2 |
| 4 | 1000.00          | 62350   | 1000.0         | 1010.2           | 1.0  |
| 5 | 100.00           | 6188    | 100.0          | 100.3            | 0.3  |
| 6 | 10.00            | 630     | 10.0           | 10.2             | 2.1  |

Calibration S - Sblank = a·m

Algorithm WLSM

Correlation coefficient 0.999984

Residual standard deviation 128.267398

Coefficient a = 61.7100



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL618334

Unspiked  Spiked At: 150ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) [Signature]

Production Lot: S-4CEA Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 3/17/2022 Spike Time: 1455 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: 10:37 APR 7, 22  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 1 Run END: APR 7, 22 11:30  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>4-17-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>4/19/22</u> | <u>14:29</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: March 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Trap ID  
OL644591

Unspiked  Spiked At: \_\_\_\_\_

QA/QC Signature (Trap Assembly) Willa Perry  
QA/QC Signature (Spike) \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

- High Flow
- Fluffy Pre-filter
- 1240 mm
- Static Pre-filter
- TAGS
- 1300 mm
- 1385 mm
- 1450 mm

Production Lot: U-10B8 Carbon Lot: 4C

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 10:37  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 1 Run END: APR 7, 22 11:37  
Date Time

Sampling Train (circle one): A (B) POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

| Chain Of Custody                                                                                         |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>4/17/22</u> | <u>1507</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: February 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form

Trap ID  
 OL642499

Unspiked  Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) Willis King  
QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10B8 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- TAGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 11:58  
Date Time

Sampling Location: STACK  
(stock, FGD inlet, etc.)

Run Number (optional): 2 Run END: APR 7, 22 12:58  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date           | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>4/13/22</u> | <u>14:58</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: February 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 300ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy = 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) [Signature]

Production Lot: S-4CE8 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 3/17/2022 Spike Time: 1140 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 11:58  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 2 Run END: APR 7, 22 12:58  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

| Chain Of Custody                                                                                         |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>4/18/22</u> | <u>14:57</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon -- Refer to SGS

Best Before: March 2025





Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 500ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

Production Lot: S-4CE7 Carbon Lot: 4C

QA/QC Signature (Spike) [Signature]  
 High Flow  Fluffy Pre-filter  240 mm  
 Static Pre-filter  AGS  300 mm  
 185 mm  450 mm

Spike Date: 3/17/2022 Spike Time: 1105 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 13:15  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 3 Run END: APR 7, 22 14:55  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

| Chain Of Custody                                                                                         |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>4/13/22</u> | <u>15:12</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon – Refer to SDS

Best Before: March 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



**Unspiked**     **Spiked At:** \_\_\_\_\_  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) Willa King

QA/QC Signature (Spike) \_\_\_\_\_  
High Flow \_\_\_\_\_ Fluffy Pre-filter \_\_\_\_\_ 1250 mm  
Static Pre-filter \_\_\_\_\_ 165 \_\_\_\_\_ 1300 mm  
185 mm \_\_\_\_\_ 1450 mm

Production Lot: U-10B8    Carbon Lot: 4C

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBOUR    PRE-Run Leak Check (circle one): PASS    FAIL

Boiler ID: \_\_\_\_\_    Run START: APR 7, 22    13:16  
Date    Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 3    Run END: APR 7, 22    14:16  
Date    Time

Sampling Train (circle one):    A    B    POST-Run Leak Check (circle one): PASS    FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_    Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_    Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_    **STARTUP**    **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_    For CEMENT KILNS Only  
No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

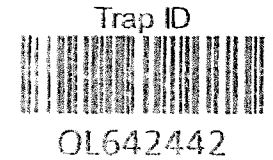
| Chain Of Custody                                                                                         |                    |                |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |                |              |                                                                                      |
|                                                                                                          | Signature          | Date           | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |                |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>4/15/22</u> | <u>15:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon -- Refer to SDS

Best Before: February 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: \_\_\_\_\_  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) Willie King  
QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10B8 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- A65
- 300 mm
- 185 mm
- 450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 14:28  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 4 Run END: APR 7, 22 15:28  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date           | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>4/13/22</u> | <u>1524</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: February 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 800ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) Emily

QA/QC Signature (Spiker) [Signature]  
 High Flow  Coil Pre-filter  240 mm  
 Static Pre-filter  AGS  300 mm  
 Fluffy Pre-filter  185 mm  450 mm

Production Lot: S-3A04 Carbon Lot: 4C

Spike Date: 1/20/2020 Spike Time: 1523 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: APR 7, 22 14:29  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 4 Run END: APR 7, 22 15:29  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_  
For CEMENT KILNS Only

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date           | Time         | Security Seal                                                                           |
|-------------------------------|--------------------|----------------|--------------|-----------------------------------------------------------------------------------------|
| Trap inserted by              |                    |                |              | If Applicable Place Chain of Custody seal here<br>(See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |                |              |                                                                                         |
| Courier/Other (If Applicable) |                    |                |              |                                                                                         |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |
| Trap received by lab          | <u>[Signature]</u> | <u>4-12-22</u> | <u>14:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |
| Trap analyzed by              | <u>[Signature]</u> | <u>1/15/22</u> | <u>1511</u>  | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2023

This report has been reviewed and approved by:

Jonathan Cross  
QA/QC Manager and Research Scientist

A handwritten signature in black ink, appearing to be 'Jonathan Cross', written over a horizontal line.

# Soilbent Trap Analysis Report

Date | 6/8/22 | Method | EPA 7473  
 Analyst[s] | Patrick Cook/Lindsey Buzaki | Method Uncertainty | ± 10%  
 Project | 2028907 | MDL | See Bench Sheets  
 Turnaround | Standard | LOQ | See Bench Sheets  
 Company | ORTECH | Contact | Chris Belore  
 Phone | 905-822-4120 ext. 324  
 Email | cbelore@ortech.ca

| Trap ID  | Pre-Filter Mass [ng] | AGS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Total Mass [ng] <sup>1</sup> | Section 3 Mass [ng] | Spike Level [ng] | Breakthrough [%] <sup>2</sup> | Spike Recovery [%] <sup>3</sup> | Source      | Notes | Affected Section |
|----------|----------------------|---------------|---------------------|---------------------|------------------------------|---------------------|------------------|-------------------------------|---------------------------------|-------------|-------|------------------|
| OL661441 |                      |               | 8645                | 13.2                | 8658                         |                     |                  | 0.2%                          |                                 | Stack Run 1 |       |                  |
| OL528827 |                      |               | 8890                | 3.0                 | 8893                         |                     | 250              | 0.0%                          |                                 | Stack Run 1 |       |                  |
| OL618397 |                      |               | 9906                | 3.5                 | 9910                         |                     | 150              | 0.0%                          |                                 | Stack Run 2 |       |                  |
| OL661394 |                      |               | 8879                | 2.9                 | 8882                         |                     |                  | 0.0%                          |                                 | Stack Run 2 |       |                  |
| OL661397 |                      |               | 8234                | 8.9                 | 8243                         |                     |                  | 0.1%                          |                                 | Stack Run 3 |       |                  |
| OL568997 |                      |               | 9233                | 9.6                 | 9243                         |                     | 400              | 0.1%                          |                                 | Stack Run 3 |       |                  |
| OL610656 |                      |               | 9207                | 0.0                 | 9207                         |                     | 600              | 0.0%                          |                                 | Stack Run 4 |       |                  |
| OL661401 |                      |               | 7837                | 0.8                 | 7838                         |                     |                  | 0.0%                          |                                 | Stack Run 4 |       |                  |
| OL661358 |                      |               | 9345                | 0.0                 | 9345                         |                     |                  | 0.0%                          |                                 | Stack Run 5 |       |                  |
| OL620140 |                      |               | 10100               | 8.8                 | 10109                        |                     | 1000             | 0.1%                          |                                 | Stack Run 5 |       |                  |
| OL610624 |                      |               | 10670               | 8.1                 | 10678                        |                     | 2200             | 0.1%                          |                                 | Stack Run 6 |       |                  |
| OL661363 |                      |               | 8412                | 1.6                 | 8414                         |                     |                  | 0.0%                          |                                 | Stack Run 6 |       |                  |

<sup>1</sup> Total Mass = PF+AGS+S1+S2

<sup>2</sup> Breakthrough = S2 / [PF+AGS+S1]

<sup>3</sup> For PS12B only Spike Recovery = S3 / Spike Level

<sup>4</sup> Data invalidation qualifier - refer to notes

ATTENTION: A response factor was used to calculate certain values on this report. **Italicized masses** appear on the report as rounded to the nearest tenth nanogram.



Analyst | Patrick Cook  
 File Name | 220607\_PMC\_ORTECH\_2028907  
 Analyzer | 1644  
 Cell type | Short

Temperature [°C] | 630  
 Flow Rate [L/min] | 1.5  
 MDL [ng] | 0.6  
 SD | 1.1

| Trap ID | PF Mass [ng] | AGS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Section 3 Mass [ng] | Section 4 Mass [ng] | Spike Level [ng] | Source      | Notes | Affected Section |
|---------|--------------|---------------|---------------------|---------------------|---------------------|---------------------|------------------|-------------|-------|------------------|
| 1       | OL661441     |               | 8645                | 13.2                |                     |                     |                  | Stack Run 1 |       |                  |
| 2       | OL528827     |               | 8890                | 3.0                 |                     |                     |                  | Stack Run 1 |       |                  |
| 3       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 4       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 5       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 6       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 7       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 8       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 9       |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 10      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 11      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 12      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 13      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 14      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 15      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 16      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 17      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 18      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 19      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 20      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 21      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 22      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 23      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 24      |              |               |                     |                     |                     |                     |                  |             |       |                  |

Additional Notes

| Daily Calibration <sup>1</sup> |           |                 | Continuing Calibration Verifications <sup>2</sup> |           |                 | Active Hg Standard Bank <sup>3</sup> |                                       |                            |            |
|--------------------------------|-----------|-----------------|---------------------------------------------------|-----------|-----------------|--------------------------------------|---------------------------------------|----------------------------|------------|
| Lot Std. ID                    | Std. [ng] | Calculated [ng] | Lot Std. ID                                       | Std. [ng] | Calculated [ng] | Kit Used                             | <input checked="" type="checkbox"/> A | <input type="checkbox"/> B |            |
| S2-MEB708106 A                 | 5.0       | see cal. report | S2-HG709270 A                                     | 1000.0    | 1041            | Concentration [µg/mL]                |                                       | Lot Std. ID                | Exp. Date  |
| S2-MEB708106 A                 | 10.0      | see cal. report | OL015677                                          | 1500.0    | 1418            | 0.1                                  |                                       | S2-MEB701386 B             | 10/21/2022 |
| S2-MEB712974 A                 | 100.0     | see cal. report |                                                   |           |                 | 1                                    |                                       | R2-MEB700115 B             | 11/16/2022 |
| S2-HG709270 A                  | 1000.0    | see cal. report |                                                   |           |                 | 10                                   |                                       | R2-HG700202 B              | 3/3/2023   |
| S2-MEB708107 A                 | 5000.0    | see cal. report |                                                   |           |                 | 100                                  |                                       | S2-MEB708107 B             | 3/31/2023  |
| S2-MEB708107 A                 | 10000.0   | see cal. report |                                                   |           |                 | 1000                                 |                                       | P2-HG672010                | 4/22/2023  |
|                                |           |                 |                                                   |           |                 | 0.1                                  |                                       | S2-MEB708106 A             | 5/16/2023  |
|                                |           |                 |                                                   |           |                 | 1                                    |                                       | S2-MEB712974 A             | 3/3/2023   |
|                                |           |                 |                                                   |           |                 | 10                                   |                                       | S2-HG709270 A              | 3/4/2023   |
|                                |           |                 |                                                   |           |                 | 100                                  |                                       | S2-MEB708107 A             | 5/16/2023  |
|                                |           |                 |                                                   |           |                 | 1 (Independent)                      |                                       | P2-HG681569                | 6/29/2022  |
|                                |           |                 |                                                   |           |                 | 10 (Independent)                     |                                       | R2-MEB691339               | 1/31/2023  |
|                                |           |                 |                                                   |           |                 | 100 (Independent)                    |                                       | P2-MEB691004               | 7/8/2023   |

| Independent Calibration Verification <sup>2</sup> |           |                 |
|---------------------------------------------------|-----------|-----------------|
| Lot Std. ID                                       | Std. [ng] | Calculated [ng] |
| R2-MEB691339                                      | 1000.0    | 992.0           |

| Response Factor (Method 308 Only) <sup>4</sup> |           |           |
|------------------------------------------------|-----------|-----------|
| Lot Std. ID                                    | Std. [ng] | Area/Mass |
| S2-MEB708106 A                                 | 2         | 59.5      |

Pipette Identification  
 A6  
 If Pipette ID (if different from cal)

Method Blank measured mass<sup>5</sup>  
 0

1 (Independent)  
 10 (Independent)  
 100 (Independent)

Other Reagents

Sodium Carbonate | 22110-11  
 Indicated Activated Carbon | 4C-31

<sup>1</sup> Performed daily prior to analysis of sorbent traps. Refer to SOP for Instrument Calibration for acceptance criteria  
<sup>2</sup> Performed immediately after calibration curve is verified, must come within 10% of expected value  
<sup>3</sup> Performed between every 10 samples for method 308 and after every analytical batch  
<sup>4</sup> Response factor value must fall between the 100 and MDL  
<sup>5</sup> Subject to change, for analyst convenience only  
<sup>6</sup> Method blank must be measured at a value less than 100  
<sup>7</sup> Data invalidation qualifier - refer to notes

Immediately report any QA/QC failures or anything suspicious to the QA/QC Manager

Analyst Signature



Date

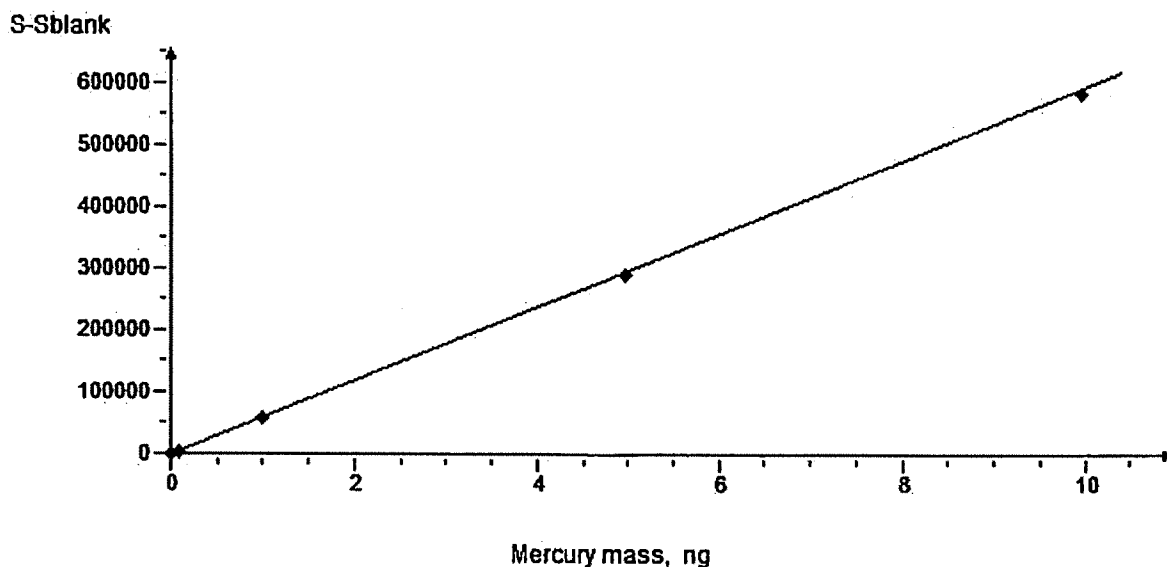
June 7, 22



I, by signing this report I confirm that the above data are true to the best of my knowledge.

# REPORT

Report created 07.06.2022 17:53:01  
 Instrument RA915M Serial number ~~12600~~ 1644 PL  
 Calibration created 07.06.2022 11:32:42  
 Calibration name 220607\_PMC\_5-10000



## Results

| N | Mercury mass, ng | S-Blank | Ref.data, ppb | Calculated, ppb | d, % |
|---|------------------|---------|---------------|-----------------|------|
| 1 | 10.00            | 588900  | 10000.0       | 9847.2          | -1.5 |
| 2 | 5.00             | 292100  | 5000.0        | 4883.8          | -2.3 |
| 3 | 1.00             | 61530   | 1000.0        | 1028.8          | 2.9  |
| 4 | 0.10             | 5763    | 100.0         | 96.4            | -3.6 |
| 5 | 0.01             | 602     | 10.0          | 10.1            | 0.6  |
| 6 | 0.01             | 311     | 5.0           | 5.2             | 4.0  |

Calibration S - Sblank = a · m  
 Algorithm WLSM  
 Correlation coefficient 0.999983  
 Residual standard deviation 61.387664  
 Coefficient a = 59800.0000



Analyst: Lindsey Buzak  
 File Name: 220608\_UHD\_ORTECH\_2028907  
 Analyzer: 1475  
 Cell type: Short

Temperature [°C]: 680  
 Flow Rate [L/min]: 3.8  
 MDL [ng]: 3.39  
 SD: 0.8

| Trap ID | H1 Mass [ng] | AGS Mass [ng] | Section 1 Mass [ng] | Section 2 Mass [ng] | Section 3 Mass [ng] | Section 4 Mass [ng] | Spike Level [ng] | Source      | Notes | Affected Section |
|---------|--------------|---------------|---------------------|---------------------|---------------------|---------------------|------------------|-------------|-------|------------------|
| 1       | OL618397     |               | 9906                | 3.5                 |                     |                     |                  | Stack Run 2 |       |                  |
| 2       | OL661394     |               | 8879                | 2.9                 |                     |                     |                  | Stack Run 2 |       |                  |
| 3       | OL661397     |               | 8234                | 8.9                 |                     |                     |                  | Stack Run 3 |       |                  |
| 4       | OL568997     |               | 9233                | 9.6                 |                     |                     |                  | Stack Run 3 |       |                  |
| 5       | OL610656     |               | 9207                | 0.0                 |                     |                     |                  | Stack Run 4 |       |                  |
| 6       | OL661401     |               | 7837                | 0.8                 |                     |                     |                  | Stack Run 4 |       |                  |
| 7       | OL661358     |               | 9345                | 0.0                 |                     |                     |                  | Stack Run 5 |       |                  |
| 8       | OL620140     |               | 10100               | 8.8                 |                     |                     |                  | Stack Run 5 |       |                  |
| 9       | OL610624     |               | 10670               | 8.1                 |                     |                     |                  | Stack Run 6 |       |                  |
| 10      | OL661363     |               | 8412                | 1.6                 |                     |                     |                  | Stack Run 6 |       |                  |
| 11      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 12      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 13      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 14      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 15      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 16      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 17      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 18      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 19      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 20      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 21      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 22      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 23      |              |               |                     |                     |                     |                     |                  |             |       |                  |
| 24      |              |               |                     |                     |                     |                     |                  |             |       |                  |

Additional Notes

| Daily Calibration <sup>1</sup> |           |                 | Continuing Calibration Verifications <sup>1</sup> |           |                 | Active Hg Standard Bank <sup>3</sup> |                            |                                       |
|--------------------------------|-----------|-----------------|---------------------------------------------------|-----------|-----------------|--------------------------------------|----------------------------|---------------------------------------|
| Lot Std. ID                    | Std. [ng] | Calculated [ng] | Lot Std. ID                                       | Std. [ng] | Calculated [ng] | Kit Used                             | <input type="checkbox"/> A | <input checked="" type="checkbox"/> B |
| R2-MEB700115 B                 | 40.0      | see cal. report | S2-MEB708107 B                                    | 5000.0    | 5192            | Concentration [µg/ml]                |                            | Lot Std. ID                           |
| R2-MEB700115 B                 | 100.0     | see cal. report | S2-MEB708107 B                                    | 5000.0    | 5244            | 0.1                                  |                            | Exp. Date                             |
| R2-HG700202 B                  | 1000.0    | see cal. report | S2-MEB708107 B                                    | 10000.0   | 5937            | 1                                    |                            | S2-MEB701386 B                        |
| S2-MEB708107 B                 | 10000.0   | see cal. report |                                                   |           |                 | 10                                   |                            | R2-MEB700115 B                        |
| P2-HG677010                    | 20000.0   | see cal. report |                                                   |           |                 | 100                                  |                            | R2-HG700202 B                         |
| P2-HG677010                    | 40000.0   | see cal. report |                                                   |           |                 | 1000                                 |                            | S2-MEB708107 B                        |
|                                |           |                 |                                                   |           |                 | 0.1                                  |                            | P2-HG677010                           |
|                                |           |                 |                                                   |           |                 | 1                                    |                            | S2-MEB708106 A                        |
|                                |           |                 |                                                   |           |                 | 10                                   |                            | S2-MEB712974 A                        |
|                                |           |                 |                                                   |           |                 | 100                                  |                            | S2-HG709770 A                         |
|                                |           |                 |                                                   |           |                 | 1 (Independent)                      |                            | S2-MEB708107 A                        |
|                                |           |                 |                                                   |           |                 | 10 (Independent)                     |                            | P2-HG681569                           |
|                                |           |                 |                                                   |           |                 | 100 (Independent)                    |                            | R2-MEB691339                          |
|                                |           |                 |                                                   |           |                 |                                      |                            | P2-MEB681004                          |

Independent Calibration Verification<sup>2</sup>

| Lot Std. ID  | Std. [ng] | Calculated [ng] |
|--------------|-----------|-----------------|
| P2-MEB681004 | 10000.0   | 10440           |

Response Factor (Method 30B Only)<sup>4</sup>

| Lot Std. ID    | Std. [ng] | Area/Mass |
|----------------|-----------|-----------|
| R2-MEB700115 B | 20        | 18.35     |

Pipette Identification  
 156  
 RF Pipette ID (if different from cal)

Method Blank measured mass<sup>4</sup>  
 0.0

Other Reagents

|                            |            |
|----------------------------|------------|
| Sodium Carbonate           | 2202861008 |
| Iodinated Activated Carbon | 4C31       |

<sup>1</sup> Performed daily prior to analysis of sorbent traps. Refer to SOP for Instrument Calibration for acceptance criteria.  
<sup>2</sup> Performed immediately after calibration curve is verified, must come within 10% of expected value.  
<sup>3</sup> Performed between every 10 samples for method 30B and after every analytical batch.  
<sup>4</sup> Response factor value must fall between the LOQ and MDL.  
<sup>5</sup> Subject to change, for analyst convenience only.  
<sup>6</sup> Method blank must be measured at a value less than LOQ.  
<sup>7</sup> Data invalidation qualifier - refer to notes.

Immediately report any QA/QC failures or anything suspicious to the QA/QC Manager

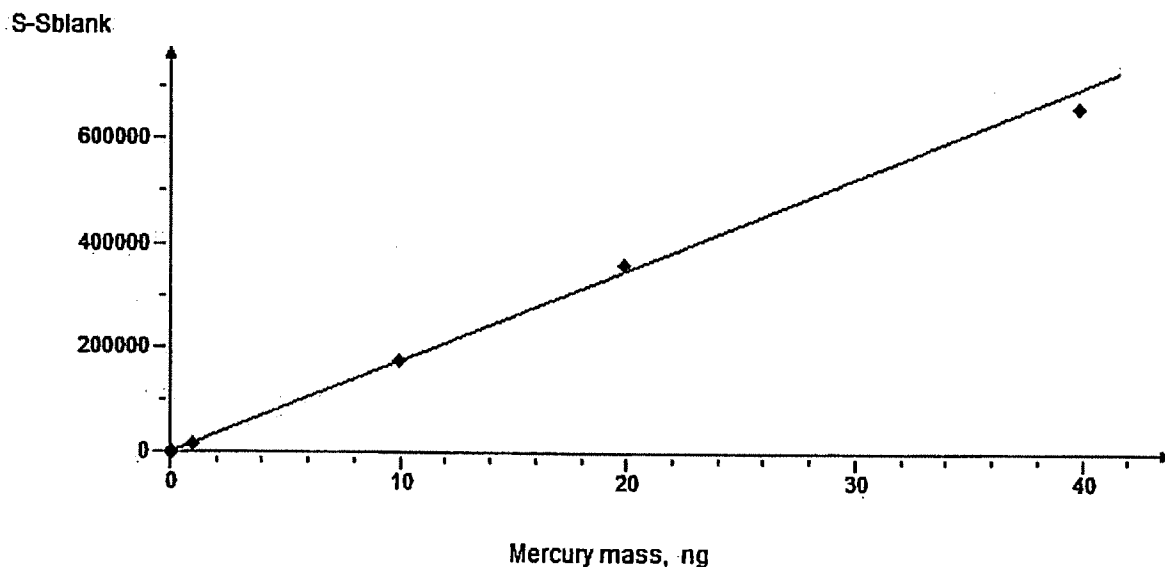
Analyst Signature:   
 By signing this report I confirm that the above data is true to the best of my knowledge.

Date: 6/8/22



# REPORT

Report created 08.06.2022 09:24:37  
 Instrument RA915+ Serial 1475  
 number  
 Calibration created 08.06.2022 09:24:31  
 Calibration name 220608\_LHB\_40-40000



## Results

| N | Mercury mass, ng | S-Blank | Ref.data, ppb | Calculated, ppb | d, % |
|---|------------------|---------|---------------|-----------------|------|
| 1 | 40.00            | 666200  | 40000.0       | 37815.1         | -5.5 |
| 2 | 20.00            | 364800  | 20000.0       | 20707.7         | 3.5  |
| 3 | 10.00            | 179400  | 10000.0       | 10183.2         | 1.8  |
| 4 | 1.00             | 17820   | 1000.0        | 1011.5          | 1.1  |
| 5 | 0.10             | 1781    | 100.0         | 101.1           | 1.1  |
| 6 | 0.04             | 690     | 40.0          | 39.1            | -2.1 |

Calibration S - Sblank = a·m  
 Algorithm WLSM  
 Correlation coefficient 0.999101  
 Residual standard deviation 728.580861



Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



OL661441

Unspiked Spiked At:

Spiking Method Cold Vapor Adsorption Via Impinger Sparging Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly)

QA/QC Signature (Spike)

Production Lot: U-10F4 Carbon Lot: 4C

- High Flow, Static Pre-filter, Fluffy Pre-filter, AGS, 185 mm, 240 mm, 300 mm, 450 mm

Spike Date: Spike Time: Type of Trap: 30B

TO BE FILLED OUT BY SAMPLING TECHNICIAN

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL
Boiler ID: Run START: MAY 29/22 10:04
Date Time
Sampling Location: STACK (stack, FGD inlet, etc.)
Run Number (optional): 1 Run END: MAY 29/22 11:04
Date Time
Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes:

SAMPLING CONDITIONS AND PARAMETERS

Ave Duct Temp (F°): Estimated Ave Hg Concentration (µg/dscm):
Ave Trap Temp (F°): Circle Event if Occurred During Sampling:
Ave Flow Rate (cc/min): STARTUP SHUTDOWN
Total Volume (L) or (dscm): No. of RAW MILL OFF Events During Sampling:
For CEMENT KIILNS Only

REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS

Estimated Hg Mass in Section 1 of Sorbent Trap (ng):
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

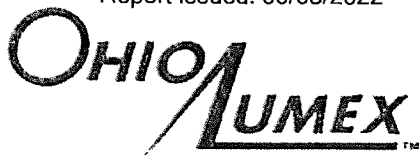
Chain Of Custody

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

Table with 5 columns: Signature, Date, Time, Security Seal, and description of trap actions (inserted, removed, received, analyzed).

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: April 2025



Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



Trap ID

OL528827

Unspiked Spiked At: 250ng
Spiking Method Cold Vapor Adsorption Via Impinger Sparging
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker)

QA/QC Signature (Spiker)

Production Lot: S-39E4 Carbon Lot: 4C

- High Flow, Static Pre-filter, Fluffy Pre-filter, Coil Pre-filter, AGS, 185 mm, 240 mm, 300 mm, 450 mm

Spike Date: 1/15/2020 Spike Time: 1055

Type of Trap: 30B

TO BE FILLED OUT BY SAMPLING TECHNICIAN

Plant/Source: CLEAN HARBORS

PRE-Run Leak Check (circle one):

PASS FAIL

Boiler ID:

Run START: MAY 25 / 22

1005

Sampling Location: STACK (stack, FGD inlet, etc.)

Run END: MAY 25 / 22

11:05

Run Number (optional): 1

POST-Run Leak Check (circle one):

PASS FAIL

Sampling Train (circle one): A B

Notes:

SAMPLING CONDITIONS AND PARAMETERS

Ave Duct Temp (F°):

Estimated Ave Hg Concentration (µg/dscm):

Ave Trap Temp (F°):

Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min):

STARTUP

SHUTDOWN

Total Volume (L) or (dscm):

For CEMENT KILNS Only

No. of RAW MILL OFF Events During Sampling:

REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS

Estimated Hg Mass in Section 1 of Sorbent Trap (ng):

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

Chain Of Custody

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

Table with 5 columns: Action, Signature, Date, Time, Security Seal. Rows include Trap inserted by, Trap removed and sealed by, Courier/Other (If Applicable), Trap received by lab, and Trap analyzed by.

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2023



Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



OL618397

Unspiked Spiked At: 150ng Spiking Method Cold Vapor Adsorption Via Impinger Sparging Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly)

QA/QC Signature (Spike)

Production Lot: S-4CEA Carbon Lot: 4C

- High Flow, Static Pre-filter, Fluffy Pre-filter, AGS, 185 mm, 240 mm, 300 mm, 450 mm

Spike Date: 3/17/2022 Spike Time: 1455 Type of Trap: 30B

TO BE FILLED OUT BY SAMPLING TECHNICIAN

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL
Boiler ID: Run START: MAY 25/22 11:19
Date Time
Sampling Location: STACK (stack, FGD inlet, etc.)
Run Number (optional): 2 Run END: MAY 25/22 12:19
Date Time
Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes:

SAMPLING CONDITIONS AND PARAMETERS

Ave Duct Temp (F°): Estimated Ave Hg Concentration (µg/dscm):
Ave Trap Temp (F°): Circle Event if Occurred During Sampling:
Ave Flow Rate (cc/min): STARTUP SHUTDOWN
Total Volume (L) or (dscm): No. of RAW MILL OFF Events During Sampling:
For CEMENT KILNS Only

REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS

Estimated Hg Mass in Section 1 of Sorbent Trap (ng):
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

Chain Of Custody

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

Table with 5 columns: Signature, Date, Time, Security Seal, and description of action (Trap inserted, removed, received, analyzed).

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: March 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL661394

Unspiked     Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) \_\_\_\_\_

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10F4    Carbon Lot: 4C

- High Flow                       Fluffy Pre-filter                       240 mm
- Static Pre-filter                 AGS                                       300 mm
- 185 mm                               450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS    PRE-Run Leak Check (circle one):    PASS    FAIL

Boiler ID: \_\_\_\_\_    Run START: May 25/22    11:20

Date                                      Time

Sampling Location: STACK    -----

(stack, FGD inlet, etc.)

Run Number (optional): 2    Run END: May 25/22    12:20

Date                                      Time

Sampling Train (circle one):    A    B    POST-Run Leak Check (circle one):    PASS    FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_    Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_    Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_    **STARTUP**                      **SHUTDOWN**

For CEMENT KILNS Only

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_    No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature | Date           | Time         | Security Seal                                                                               |
|-------------------------------|-----------|----------------|--------------|---------------------------------------------------------------------------------------------|
| Trap inserted by              |           |                |              | <b>If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet)</b> |
| Trap removed and sealed by    |           |                |              |                                                                                             |
| Courier/Other (If Applicable) |           |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>         |
| Courier/Other (If Applicable) |           |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>         |
| Trap received by lab          |           | <u>6-1-22</u>  | <u>13:25</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>         |
| Trap analyzed by              |           | <u>4/18/22</u> | <u>10:07</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>         |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon – Refer to SDS

**Best Before: April 2025**



Ohio Lumex Co., Inc. Sorbent Trap Chain of Custody Form



OL661397

Unspiked Spiked At:

Spiking Method Cold Vapor Adsorption Via Impinger Sparging Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly)

QA/QC Signature (Spike)

Production Lot: U-10F4 Carbon Lot: 4C

- High Flow, Fluffy Pre-filter, 240 mm, Static Pre-filter, AGS, 300 mm, 185 mm, 450 mm

Spike Date: Spike Time: Type of Trap: 30B

TO BE FILLED OUT BY SAMPLING TECHNICIAN

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL
Boiler ID: Run START: MAY 25/22 12:37
Sampling Location: STACK (stock, FGD inlet, etc.)
Run Number (optional): 3 Run END: MAY 29/22 13:37
Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes:

SAMPLING CONDITIONS AND PARAMETERS

Ave Duct Temp (F°): Estimated Ave Hg Concentration (µg/dscm):
Ave Trap Temp (F°): Circle Event if Occurred During Sampling:
Ave Flow Rate (cc/min): STARTUP SHUTDOWN
Total Volume (L) or (dscm): No. of RAW MILL OFF Events During Sampling:
For CEMENT KILNS Only

REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS

Estimated Hg Mass in Section 1 of Sorbent Trap (ng):
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

Chain Of Custody

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

Table with 5 columns: Signature, Date, Time, Security Seal, and description of event (Trap inserted, removed, received, analyzed).

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: April 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 400ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) \_\_\_\_\_

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: S-4B51 Carbon Lot: 4C

- High Flow
- Static Pre-filter
- Fluffy Pre-filter
- IAGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Spike Date: 1/19/2022 Spike Time: 1312 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: -LEBAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 25/22 12:38  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 3 Run END: MAY 25/22 13:38  
Date Time

Sampling Train (circle one): A (B) POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date           | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>6-1-22</u>  | <u>13:25</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>6/18/22</u> | <u>10:28</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: January 2025





Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Trap ID

OL610656

Unspiked  Spiked At: 600ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

Production Lot: S-4DF9 Carbon Lot: 4C

QA/QC Signature (Spike) [Signature]

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 05/02/2022 Spike Time: 1218 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 25/22 14:00  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 4 Run END: MAY 25/22 15:00  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ For CEMENT KILNS Only

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date          | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |               |              |                                                                                      |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>6-1-22</u> | <u>13:26</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>6/1/22</u> | <u>11:39</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: May 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL661401

Unspiked  Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10F4 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AGS
- 300 mm
- 185 mm
- 450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 25/22 14:01  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 4 Run END: MAY 25/22 15:01  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP** **SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date          | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |               |              |                                                                                      |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>6-1-22</u> | <u>13:20</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>6/1/22</u> | <u>10:45</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: April 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL661358

Unspiked     Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10F4    Carbon Lot: 4C

- High Flow                       Fluffy Pre-filter             240 mm
- Static Pre-filter                 AGS                             300 mm
- 185 mm                             450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

|                                                                            |                                   |              |      |
|----------------------------------------------------------------------------|-----------------------------------|--------------|------|
| Plant/Source: <u>CLEAN HARBORS</u>                                         | PRE-Run Leak Check (circle one):  | <u>PASS</u>  | FAIL |
| Boiler ID: _____                                                           | Run START: <u>MAY 29/22</u>       | <u>15:35</u> | Time |
| Sampling Location: <u>STACK</u><br><small>(stack, FGD inlet, etc.)</small> | Date                              |              |      |
| Run Number (optional): <u>5</u>                                            | Run END: <u>MAY 29/22</u>         | <u>16:35</u> | Time |
| Sampling Train (circle one): <u>A</u> B                                    | POST-Run Leak Check (circle one): | <u>PASS</u>  | FAIL |
| Notes: _____                                                               |                                   |              |      |

**SAMPLING CONDITIONS AND PARAMETERS**

|                                         |                                                   |
|-----------------------------------------|---------------------------------------------------|
| Ave Duct Temp (F°): _____               | Estimated Ave Hg Concentration (µg/dscm): _____   |
| Ave Trap Temp (F°): _____               | Circle Event if Occurred During Sampling:         |
| Ave Flow Rate (cc/min): _____           | STARTUP                      SHUTDOWN             |
| Total Volume (L) _____ or (dscm): _____ | For CEMENT KILNS Only                             |
|                                         | No. of RAW MILL OFF Events During Sampling: _____ |

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

*Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.*

**Chain Of Custody**

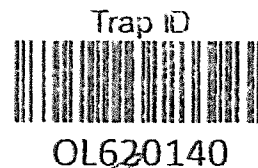
| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |               |              |                                                                                         |
|----------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------|-----------------------------------------------------------------------------------------|
|                                                                                                          | Signature          | Date          | Time         | Security Seal                                                                           |
| Trap inserted by                                                                                         |                    |               |              | If Applicable Place Chain of Custody seal here<br>(See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |               |              |                                                                                         |
| Courier/Other (If Applicable)                                                                            |                    |               |              |                                                                                         |
| Courier/Other (If Applicable)                                                                            |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>6-1-22</u> | <u>13:26</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>6/1/22</u> | <u>10:52</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>     |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool impregnated Activated Carbon – Refer to SDS

Best Before: April 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Unspiked  Spiked At: 1,000ng  
Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) [Signature]

Production Lot: S-4DF8 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 240 mm
- Static Pre-filter
- AQS
- 300 mm
- 185 mm
- 450 mm

Spike Date: 05/02/2022 Spike Time: 1122 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 29/22 15:36  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 5 Run END: MAY 29/22 16:36  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ For CEMENT KILNS Only

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_  
Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

|                               | Signature          | Date           | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|----------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |                |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |                |              |                                                                                      |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |                |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>6-1-22</u>  | <u>13:26</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>6/15/22</u> | <u>10:59</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon - Refer to SDS

Best Before: May 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



Trap ID  
OL610624

Unspiked  Spiked At: 2,200ng

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%. Traceable to NIST

QA/QC Signature (Trap Assembly) \_\_\_\_\_

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: S-DF7 Carbon Lot: 4C

- High Flow
- Fluffy Pre-filter
- 1240 mm
- Static Pre-filter
- TAGS
- 300 mm
- 185 mm
- 1450 mm

Spike Date: 05/02/2022 Spike Time: 1050 Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 25/22 16:49  
Date Time

Sampling Location: STACK  
(stack, FGD inlet, etc.)

Run Number (optional): 6 Run END: MAY 29/22 17:49  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes:

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ STARTUP SHUTDOWN

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ For CEMENT KILNS Only

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

| Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap. |                    |               |              |                                                                                      |
|----------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------|--------------------------------------------------------------------------------------|
|                                                                                                          | Signature          | Date          | Time         | Security Seal                                                                        |
| Trap inserted by                                                                                         |                    |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by                                                                               |                    |               |              |                                                                                      |
| Courier/Other (If Applicable)                                                                            |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable)                                                                            |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab                                                                                     | <u>[Signature]</u> | <u>6-1-22</u> | <u>13:26</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by                                                                                         | <u>[Signature]</u> | <u>6/1/22</u> | <u>11:09</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. - Deactivated glass and glass wool impregnated Activated Carbon - Refer to SDS

Best Before: May 2025



Ohio Lumex Co., Inc.  
Sorbent Trap Chain of Custody Form



OL661363

Unspiked  Spiked At: \_\_\_\_\_

Spiking Method Cold Vapor Adsorption Via Impinger Sparging  
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Assembly) [Signature]

QA/QC Signature (Spike) \_\_\_\_\_

Production Lot: U-10F4 Carbon Lot: 4C

- High Flow  Fluffy Pre-filter  240 mm
- Static Pre-filter  AGS  300 mm
- 185 mm  450 mm

Spike Date: \_\_\_\_\_ Spike Time: \_\_\_\_\_ Type of Trap: 30B

**TO BE FILLED OUT BY SAMPLING TECHNICIAN**

Plant/Source: CLEAN HARBORS PRE-Run Leak Check (circle one): PASS FAIL

Boiler ID: \_\_\_\_\_ Run START: MAY 29 / 22 16:50  
Date Time

Sampling Location: STACK  
(stack, FGD Inlet, etc.)

Run Number (optional): 6 Run END: MAY 29 / 22 17:50  
Date Time

Sampling Train (circle one): A B POST-Run Leak Check (circle one): PASS FAIL

Notes: \_\_\_\_\_

**SAMPLING CONDITIONS AND PARAMETERS**

Ave Duct Temp (F°): \_\_\_\_\_ Estimated Ave Hg Concentration (µg/dscm): \_\_\_\_\_

Ave Trap Temp (F°): \_\_\_\_\_ Circle Event if Occurred During Sampling:

Ave Flow Rate (cc/min): \_\_\_\_\_ **STARTUP SHUTDOWN**

Total Volume (L) \_\_\_\_\_ or (dscm): \_\_\_\_\_ **For CEMENT KILNS Only**

No. of RAW MILL OFF Events During Sampling: \_\_\_\_\_

**REQUIRED IF RETURNING TO OHIO LUMEX FOR ANALYSIS**

Estimated Hg Mass in Section 1 of Sorbent Trap (ng): \_\_\_\_\_

Note: Analyzer calibration range will be set based on this value. Leaving this blank may result in out-of-calibration analysis. Please contact us if you require assistance estimating this value.

**Chain Of Custody**

Signatures along with Date/Time required for insertion, removal, lab receiving and lab analysis of trap.

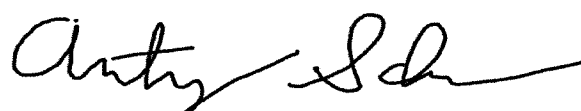
|                               | Signature          | Date          | Time         | Security Seal                                                                        |
|-------------------------------|--------------------|---------------|--------------|--------------------------------------------------------------------------------------|
| Trap inserted by              |                    |               |              | If Applicable Place Chain of Custody seal here (See Security Seal Instruction Sheet) |
| Trap removed and sealed by    |                    |               |              |                                                                                      |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Courier/Other (If Applicable) |                    |               |              | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap received by lab          | <u>[Signature]</u> | <u>6-1-22</u> | <u>13:26</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |
| Trap analyzed by              | <u>[Signature]</u> | <u>6/8/22</u> | <u>11:15</u> | Seal intact as received<br>Yes <input type="checkbox"/> No <input type="checkbox"/>  |

Make sure all of your sampling conditions prevent moisture condensation in the trap media. Moisture condensation is a major cause of breakthrough and spike loss in sorbent traps and should be prevented at all costs. Deactivated glass and glass wool Impregnated Activated Carbon – Refer to SDS

Best Before: April 2025

This report has been reviewed and approved by:

Anthony Schneider  
Directory of Laboratory Services and Analytical R&D



**APPENDIX 7**

**Clean Harbors Process Data  
(30 pages)**



| \$Date     | \$Time   | Rich  | Emulsion | Lean   | Alkaline | TDU Flow | TDU Flow | Leachate | Primary | Secondary | Stack Velocity | Stack Flow | Primary      | Secondary | Quench    | SDA       | Stack     |
|------------|----------|-------|----------|--------|----------|----------|----------|----------|---------|-----------|----------------|------------|--------------|-----------|-----------|-----------|-----------|
|            |          | LPM   | LPM      | LPM    | LPM      | LPM      | SCFM     | LPM      | m3/h    | m3/h      | m3/h           | m/s        | m3/s Ref/Dry | Degrees C | Degrees C | Degrees C | Degrees C |
| 2022-02-23 | 10:20:00 | 43.62 | 8.85     | 152.10 | 199.49   | 4.68     | 280.95   | 22.88    | 21944   | 14118     | 35.11          | 77888      | 1337.8       | 1079.2    | 491.4     | 196.5     | 188.4     |
| 2022-02-23 | 10:21:00 | 43.61 | 9.04     | 151.29 | 197.33   | 4.72     | 283.43   | 22.95    | 22288   | 14073     | 35.02          | 78984      | 1329.7       | 1074.1    | 491.1     | 197.0     | 188.4     |
| 2022-02-23 | 10:22:00 | 43.53 | 9.08     | 151.85 | 200.07   | 4.73     | 283.93   | 23.44    | 21913   | 14163     | 35.02          | 78828      | 1330.6       | 1071.4    | 490.1     | 197.0     | 189.4     |
| 2022-02-23 | 10:23:00 | 43.52 | 9.25     | 154.70 | 198.18   | 4.87     | 291.98   | 23.63    | 22169   | 14062     | 34.90          | 78812      | 1328.8       | 1069.3    | 489.6     | 197.0     | 189.4     |
| 2022-02-23 | 10:24:00 | 43.97 | 9.35     | 155.45 | 200.48   | 4.88     | 293.03   | 23.63    | 21775   | 13994     | 33.99          | 76522      | 1331.6       | 1071.6    | 489.2     | 197.5     | 189.4     |
| 2022-02-23 | 10:25:00 | 43.74 | 9.24     | 154.37 | 198.32   | 4.82     | 289.13   | 23.03    | 22431   | 14219     | 35.52          | 79128      | 1332.4       | 1073.3    | 488.9     | 197.5     | 189.4     |
| 2022-02-23 | 10:26:00 | 43.55 | 9.18     | 154.42 | 199.17   | 4.82     | 289.43   | 23.78    | 21663   | 14000     | 35.33          | 78141      | 1337.2       | 1074.0    | 489.2     | 198.0     | 190.4     |
| 2022-02-23 | 10:27:00 | 43.34 | 9.05     | 155.84 | 198.14   | 4.83     | 289.95   | 22.46    | 22394   | 14292     | 36.78          | 81433      | 1340.6       | 1075.9    | 489.4     | 199.0     | 190.4     |
| 2022-02-23 | 10:28:00 | 43.70 | 9.05     | 156.17 | 199.08   | 4.90     | 294.00   | 23.33    | 21919   | 14174     | 35.25          | 77905      | 1336.9       | 1074.8    | 489.5     | 199.0     | 190.4     |
| 2022-02-23 | 10:29:00 | 42.90 | 9.24     | 155.55 | 197.96   | 4.90     | 293.78   | 23.44    | 22481   | 14163     | 36.79          | 81606      | 1340.3       | 1074.6    | 490.0     | 199.5     | 191.4     |
| 2022-02-23 | 10:30:00 | 43.05 | 9.26     | 154.80 | 199.17   | 4.86     | 291.53   | 23.10    | 21994   | 14163     | 35.06          | 77879      | 1339.4       | 1072.1    | 490.4     | 200.0     | 191.4     |
| 2022-02-23 | 10:31:00 | 42.84 | 9.63     | 155.64 | 198.45   | 4.87     | 292.43   | 23.10    | 21856   | 14051     | 35.42          | 78978      | 1340.3       | 1073.3    | 490.4     | 200.5     | 191.4     |
| 2022-02-23 | 10:32:00 | 43.49 | 9.04     | 156.54 | 199.71   | 4.84     | 290.48   | 22.99    | 21644   | 13944     | 34.54          | 76686      | 1340.7       | 1073.6    | 490.4     | 201.0     | 191.4     |
| 2022-02-23 | 10:33:00 | 43.92 | 9.22     | 155.98 | 199.80   | 4.77     | 286.28   | 23.59    | 21606   | 13955     | 34.64          | 76579      | 1344.7       | 1078.5    | 491.1     | 200.5     | 191.4     |
| 2022-02-23 | 10:34:00 | 43.97 | 9.52     | 156.26 | 200.03   | 4.75     | 288.70   | 23.33    | 22006   | 14073     | 34.93          | 77058      | 1343.2       | 1079.7    | 491.4     | 201.0     | 191.4     |
| 2022-02-23 | 10:35:00 | 43.65 | 9.34     | 156.35 | 198.90   | 4.80     | 288.23   | 23.33    | 21513   | 14118     | 34.28          | 74985      | 1348.2       | 1082.4    | 492.3     | 201.5     | 193.4     |
| 2022-02-23 | 10:36:00 | 43.35 | 9.47     | 155.84 | 198.36   | 4.74     | 284.10   | 24.23    | 21881   | 14141     | 35.07          | 76477      | 1341.6       | 1082.4    | 492.8     | 202.0     | 193.4     |
| 2022-02-23 | 10:37:00 | 43.77 | 9.35     | 156.26 | 199.89   | 4.72     | 282.98   | 23.63    | 21725   | 14101     | 35.22          | 77089      | 1344.9       | 1082.5    | 493.9     | 203.0     | 193.4     |
| 2022-02-23 | 10:38:00 | 43.28 | 9.35     | 155.08 | 198.99   | 4.73     | 283.58   | 23.63    | 22063   | 14039     | 35.42          | 77902      | 1346.2       | 1083.4    | 494.6     | 203.5     | 194.4     |
| 2022-02-23 | 10:39:00 | 43.62 | 9.01     | 156.74 | 200.79   | 4.69     | 281.55   | 23.18    | 21813   | 14141     | 35.48          | 77886      | 1348.4       | 1084.6    | 495.3     | 204.5     | 194.4     |
| 2022-02-23 | 10:40:00 | 43.64 | 9.53     | 155.55 | 201.51   | 4.67     | 280.35   | 23.51    | 22019   | 14152     | 34.82          | 76204      | 1348.8       | 1085.0    | 496.1     | 205.0     | 195.4     |
| 2022-02-23 | 10:41:00 | 44.13 | 9.46     | 156.03 | 202.23   | 4.62     | 277.20   | 22.84    | 21763   | 13927     | 34.65          | 75702      | 1356.8       | 1087.4    | 496.7     | 205.0     | 195.4     |
| 2022-02-23 | 10:42:00 | 43.62 | 9.25     | 155.98 | 201.20   | 4.61     | 276.60   | 22.99    | 22494   | 14090     | 36.27          | 78359      | 1358.2       | 1090.7    | 497.7     | 205.0     | 195.4     |
| 2022-02-23 | 10:43:00 | 43.94 | 9.22     | 156.69 | 201.38   | 4.61     | 276.60   | 23.25    | 21538   | 14129     | 34.69          | 74546      | 1359.2       | 1090.3    | 498.7     | 205.5     | 196.4     |
| 2022-02-23 | 10:44:00 | 43.43 | 9.33     | 156.45 | 200.39   | 4.64     | 278.25   | 22.31    | 22194   | 14135     | 37.04          | 79456      | 1361.6       | 1092.4    | 499.6     | 206.0     | 196.4     |
| 2022-02-23 | 10:45:00 | 43.73 | 9.36     | 155.75 | 202.23   | 4.59     | 275.40   | 23.63    | 21981   | 14045     | 35.05          | 75692      | 1358.1       | 1089.0    | 499.8     | 206.5     | 197.4     |
| 2022-02-23 | 10:46:00 | 43.77 | 9.35     | 155.51 | 200.84   | 4.61     | 276.60   | 23.44    | 22063   | 14051     | 37.39          | 80954      | 1356.6       | 1093.4    | 500.8     | 207.0     | 197.4     |
| 2022-02-23 | 10:47:00 | 43.85 | 9.43     | 156.31 | 201.11   | 4.61     | 276.53   | 23.44    | 21769   | 14045     | 35.44          | 76917      | 1354.3       | 1090.2    | 499.5     | 206.0     | 197.4     |
| 2022-02-23 | 10:48:00 | 43.76 | 9.35     | 156.12 | 201.78   | 4.58     | 274.65   | 23.44    | 21581   | 14045     | 35.70          | 77513      | 1356.3       | 1091.5    | 500.7     | 207.0     | 197.4     |
| 2022-02-23 | 10:49:00 | 43.82 | 9.31     | 157.83 | 202.41   | 4.58     | 274.65   | 23.63    | 21375   | 13921     | 35.18          | 75951      | 1361.1       | 1092.1    | 499.6     | 207.0     | 197.4     |
| 2022-02-23 | 10:50:00 | 43.52 | 8.85     | 156.88 | 201.47   | 4.62     | 277.13   | 22.95    | 21281   | 13938     | 34.38          | 73573      | 1367.6       | 1095.1    | 499.9     | 206.0     | 197.4     |
| 2022-02-23 | 10:51:00 | 43.79 | 9.44     | 158.02 | 202.05   | 4.62     | 277.13   | 23.10    | 21569   | 14023     | 35.00          | 74539      | 1365.3       | 1094.7    | 499.5     | 206.0     | 197.4     |
| 2022-02-23 | 10:52:00 | 43.50 | 9.36     | 157.21 | 199.49   | 4.61     | 276.83   | 23.36    | 21075   | 14017     | 34.62          | 73365      | 1370.7       | 1096.8    | 498.9     | 205.5     | 197.4     |
| 2022-02-23 | 10:53:00 | 43.58 | 9.16     | 158.58 | 201.74   | 4.59     | 275.40   | 23.29    | 21963   | 14039     | 36.03          | 76080      | 1368.6       | 1095.9    | 499.1     | 205.0     | 198.4     |
| 2022-02-23 | 10:54:00 | 43.76 | 9.45     | 158.45 | 202.86   | 4.60     | 275.70   | 22.24    | 21750   | 14006     | 34.78          | 73603      | 1357.2       | 1093.8    | 499.0     | 205.5     | 198.4     |
| 2022-02-23 | 10:55:00 | 43.74 | 9.35     | 157.87 | 201.15   | 4.60     | 276.15   | 22.99    | 22169   | 14169     | 36.22          | 77136      | 1350.9       | 1092.7    | 498.5     | 205.5     | 198.4     |
| 2022-02-23 | 10:56:00 | 43.71 | 9.25     | 158.11 | 201.78   | 4.60     | 275.78   | 23.70    | 21763   | 14056     | 35.54          | 76490      | 1349.9       | 1091.1    | 498.4     | 205.5     | 198.4     |
| 2022-02-23 | 10:57:00 | 43.74 | 9.40     | 157.64 | 201.78   | 4.59     | 275.48   | 22.88    | 21963   | 14051     | 34.95          | 75229      | 1349.7       | 1090.7    | 497.8     | 205.0     | 198.4     |
| 2022-02-23 | 10:58:00 | 43.71 | 9.43     | 157.78 | 201.65   | 4.63     | 277.65   | 24.15    | 21375   | 13803     | 35.04          | 75390      | 1353.2       | 1091.4    | 497.4     | 205.0     | 198.4     |
| 2022-02-23 | 10:59:00 | 43.49 | 9.53     | 157.92 | 200.88   | 4.63     | 277.95   | 23.21    | 22213   | 14298     | 36.95          | 79360      | 1354.3       | 1093.4    | 497.0     | 204.0     | 197.3     |
| 2022-02-23 | 11:00:00 | 43.74 | 9.24     | 158.02 | 202.14   | 4.66     | 279.83   | 23.33    | 21575   | 14045     | 34.97          | 74676      | 1355.2       | 1092.1    | 497.0     | 204.0     | 197.3     |
| 2022-02-23 | 11:01:00 | 43.82 | 9.12     | 157.74 | 201.69   | 4.66     | 279.73   | 23.33    | 21963   | 14169     | 37.23          | 79094      | 1355.9       | 1093.8    | 496.7     | 203.5     | 197.3     |
| 2022-02-23 | 11:02:00 | 43.77 | 9.14     | 158.06 | 201.56   | 4.67     | 280.43   | 23.33    | 21781   | 14073     | 36.14          | 76802      | 1348.4       | 1092.6    | 496.5     | 204.0     | 197.3     |
| 2022-02-23 | 11:03:00 | 43.86 | 9.34     | 158.30 | 201.38   | 4.72     | 283.13   | 23.51    | 21663   | 13955     | 35.88          | 75842      | 1350.3       | 1092.4    | 496.4     | 204.0     | 197.3     |
| 2022-02-23 | 11:04:00 | 43.79 | 9.36     | 157.35 | 201.38   | 4.71     | 282.60   | 24.15    | 21950   | 14028     | 35.88          | 77134      | 1348.4       | 1090.3    | 496.0     | 204.0     | 197.3     |
| 2022-02-23 | 11:05:00 | 43.29 | 9.06     | 158.82 | 201.83   | 4.68     | 280.65   | 23.81    | 21756   | 14141     | 35.54          | 76271      | 1351.8       | 1090.8    | 496.3     | 204.0     | 197.3     |
| 2022-02-23 | 11:06:00 | 43.53 | 9.38     | 157.78 | 201.83   | 4.69     | 281.63   | 22.24    | 21519   | 13994     | 35.08          | 75745      | 1350.9       | 1089.9    | 495.9     | 204.0     | 197.3     |
| 2022-02-23 | 11:07:00 | 43.62 | 9.20     | 157.07 | 201.20   | 4.72     | 282.90   | 24.60    | 21206   | 13989     | 34.55          | 73752      | 1355.7       | 1092.0    | 495.8     | 203.5     | 197.3     |
| 2022-02-23 | 11:08:00 | 43.14 | 9.03     | 158.30 | 201.33   | 4.69     | 281.10   | 23.78    | 21700   | 14079     | 35.49          | 75557      | 1352.4       | 1091.1    | 495.4     | 203.0     | 197.3     |
| 2022-02-23 | 11:09:00 | 43.88 | 9.34     | 158.15 | 202.59   | 4.70     | 281.93   | 22.84    | 21450   | 13972     | 34.78          | 73990      | 1356.7       | 1092.6    | 495.8     | 203.0     | 197.3     |
| 2022-02-23 | 11:10:00 | 43.73 | 9.16     | 157.97 | 201.92   | 4.69     | 281.55   | 23.48    | 22088   | 14051     | 35.64          | 75764      | 1352.1       | 1092.7    | 495.3     | 203.0     | 197.3     |
| 2022-02-23 | 11:11:00 | 43.85 | 9.01     | 157.35 | 201.83   | 4.69     | 281.33   | 23.29    | 21994   | 14084     | 35.43          | 75405      | 1348.4       | 1091.6    | 495.5     | 203.5     | 197.3     |
| 2022-02-23 | 11:12:00 | 43.73 | 9.24     | 158.02 | 201.69   | 4.75     | 284.70   | 22.84    | 22250   | 14096     | 36.04          | 77521      | 1344.7       | 1091.0    | 495.5     | 203.5     | 197.3     |
| 2022-02-23 | 11:13:00 | 43.82 | 9.22     | 157.50 | 202.05   | 4.72     | 283.13   | 23.55    | 21763   | 13994     | 35.66          | 77027      | 1345.6       | 1090.4    | 495.3     | 204.0     | 197.3     |
| 2022-02-23 | 11:14:00 | 43.19 | 9.13     | 156.60 | 199.71   | 4.72     | 283.13   | 23.03    | 22188   | 14112     | 35.02          | 75608      | 1345.6       | 1090.9    | 495.2     | 204.0     | 197.3     |
| 2022-02-23 | 11:15:00 | 43.61 | 9.40     | 157.97 | 200.84   | 4.70     | 282.00   | 23.85    | 21344   | 13994     | 34.39          | 73817      | 1349.7       | 1091.7    | 494.8     | 204.0     | 197.3     |
| 2022-02-23 | 11:16:00 | 43.49 | 8.89     | 157.68 | 200.16   | 4.68     | 280.80   | 23.70    | 21963   | 14112     | 37.18          | 79063      | 1351.9       | 1095.1    | 495.4     | 203.5     | 197.3     |
| 2022-02-23 | 11:17:00 | 43.95 | 9.42     | 158.49 | 201.51   | 4.70     | 281.78   | 23.14    | 21644   | 13916     | 35.14          | 74284      | 1352.2       | 1094.1    | 495.2     | 203.5     | 197.3     |
| 2022-02-23 | 11:18:00 | 43.80 | 9.06     | 157.64 | 200.70   | 4.66     | 279.38   | 23.18    | 21494   | 14028     | 38.15          | 81013      | 1354.9       | 1096.2    | 495.6     | 203.5     | 197.3     |
| 2022-02-23 | 11:19:00 | 43.67 | 9.45     | 159.15 | 201.42   | 4.62     | 277.20   | 22.91    | 21825   | 14017     | 35.64          | 75510      | 1350.3       | 1093.8    | 495.9     | 204.0     | 197.3     |
| 2022-02-23 | 11:20:00 | 43.79 | 9.01     | 158.82 | 201.11   | 4.63     | 277.80   | 23.21    | 21663   | 14011     | 35.25          | 75109      | 1352.6       | 1092.7    | 496.2     | 204.5     | 197.3     |
| Max        |          | 44.13 | 9.63     | 159.15 | 202.86   | 4.90     | 294.00   | 24.60    | 224     |           |                |            |              |           |           |           |           |

| \$Date     | STime    | Rich LPM | Emulsion LPM | Lean LPM | Alkaline LPM | TDU Flow LPM | TDU Flow SCRUM | Leachate LPM | Primary m3/h | Secondary m3/h | Stack Velocity m/s | Stack Flow m3/s Ref Dry FT-260-REFDOR | Primary Degrees C TE-240 | Secondary Degrees C TE-241 | Quench Degrees C TE-203 | SDA Degrees C TE-258 | Stack |
|------------|----------|----------|--------------|----------|--------------|--------------|----------------|--------------|--------------|----------------|--------------------|---------------------------------------|--------------------------|----------------------------|-------------------------|----------------------|-------|
|            |          |          |              |          |              |              |                |              |              |                |                    |                                       |                          |                            |                         |                      |       |
| 2022-02-23 | 11:30:00 | 42.99    | 9.26         | 158.06   | 200.52       | 4.70         | 282.08         | 22.76        | 21838        | 14124          | 35.39              | 76147                                 | 1347.7                   | 1088.0                     | 491.9                   | 202.5                | 197.3 |
| 2022-02-23 | 11:31:00 | 42.99    | 9.29         | 158.02   | 200.07       | 4.62         | 277.05         | 23.74        | 21500        | 14287          | 35.99              | 77737                                 | 1345.2                   | 1095.2                     | 491.6                   | 202.0                | 197.3 |
| 2022-02-23 | 11:32:00 | 43.88    | 9.35         | 157.64   | 202.05       | 4.69         | 281.55         | 22.50        | 21350        | 14067          | 34.64              | 74587                                 | 1349.1                   | 1085.0                     | 491.4                   | 202.0                | 197.3 |
| 2022-02-23 | 11:33:00 | 43.61    | 9.36         | 157.31   | 201.60       | 4.63         | 277.80         | 22.65        | 21100        | 14101          | 37.46              | 79816                                 | 1354.6                   | 1093.9                     | 491.3                   | 201.5                | 196.3 |
| 2022-02-23 | 11:34:00 | 43.56    | 9.28         | 158.30   | 200.43       | 4.59         | 275.55         | 22.84        | 21319        | 13989          | 35.15              | 74455                                 | 1349.9                   | 1092.7                     | 490.7                   | 201.5                | 196.3 |
| 2022-02-23 | 11:35:00 | 42.98    | 9.65         | 158.11   | 201.60       | 4.61         | 276.68         | 22.99        | 21681        | 14000          | 34.57              | 73690                                 | 1351.2                   | 1095.0                     | 490.8                   | 201.0                | 196.3 |
| 2022-02-23 | 11:36:00 | 43.16    | 9.71         | 157.59   | 202.19       | 4.64         | 278.63         | 23.48        | 21956        | 14169          | 35.62              | 75060                                 | 1344.8                   | 1089.9                     | 490.7                   | 201.0                | 196.3 |
| 2022-02-23 | 11:37:00 | 43.58    | 9.20         | 157.55   | 201.15       | 4.69         | 281.33         | 23.29        | 21831        | 14157          | 35.83              | 76180                                 | 1346.2                   | 1087.5                     | 490.2                   | 201.0                | 196.3 |
| 2022-02-23 | 11:38:00 | 43.53    | 9.48         | 158.40   | 200.93       | 4.67         | 279.98         | 23.29        | 21850        | 14157          | 35.99              | 77271                                 | 1339.3                   | 1084.6                     | 489.8                   | 200.5                | 196.3 |
| 2022-02-23 | 11:39:00 | 43.31    | 9.34         | 158.15   | 200.57       | 4.69         | 281.33         | 23.18        | 21744        | 13933          | 35.15              | 76006                                 | 1340.2                   | 1084.0                     | 489.0                   | 200.5                | 196.3 |
| 2022-02-23 | 11:40:00 | 43.73    | 9.19         | 157.25   | 200.79       | 4.69         | 281.63         | 23.06        | 21744        | 14185          | 35.38              | 76247                                 | 1337.1                   | 1082.7                     | 487.9                   | 200.0                | 196.3 |
| 2022-02-23 | 11:41:00 | 43.44    | 9.18         | 158.15   | 200.93       | 4.69         | 281.40         | 22.80        | 21644        | 14056          | 35.05              | 75458                                 | 1343.9                   | 1084.8                     | 487.4                   | 199.5                | 195.3 |
| 2022-02-23 | 11:42:00 | 43.29    | 9.13         | 158.40   | 200.48       | 4.75         | 284.78         | 22.95        | 22231        | 14056          | 34.84              | 74907                                 | 1339.3                   | 1084.4                     | 487.3                   | 199.0                | 195.3 |
| 2022-02-23 | 11:43:00 | 43.52    | 9.32         | 157.92   | 202.01       | 4.78         | 286.95         | 22.91        | 21631        | 14051          | 34.75              | 74470                                 | 1342.4                   | 1085.5                     | 486.8                   | 199.0                | 195.3 |
| 2022-02-23 | 11:44:00 | 43.50    | 9.08         | 157.07   | 200.93       | 4.87         | 292.43         | 23.18        | 22394        | 14225          | 35.82              | 76990                                 | 1340.3                   | 1086.9                     | 486.5                   | 199.5                | 195.3 |
| 2022-02-23 | 11:45:00 | 43.67    | 9.23         | 158.11   | 199.44       | 4.81         | 288.53         | 22.80        | 21956        | 14023          | 35.76              | 76317                                 | 1338.9                   | 1086.6                     | 486.6                   | 199.0                | 195.3 |
| 2022-02-23 | 11:46:00 | 43.38    | 9.15         | 158.30   | 200.25       | 4.75         | 285.23         | 22.88        | 22338        | 14343          | 35.30              | 76222                                 | 1338.1                   | 1086.7                     | 486.5                   | 199.0                | 195.3 |
| 2022-02-23 | 11:47:00 | 43.76    | 9.34         | 158.45   | 199.67       | 4.81         | 288.38         | 23.36        | 21788        | 14056          | 35.34              | 76269                                 | 1337.4                   | 1086.4                     | 486.9                   | 199.5                | 195.3 |
| 2022-02-23 | 11:48:00 | 43.26    | 8.76         | 158.02   | 199.08       | 4.83         | 289.80         | 23.74        | 22206        | 14197          | 37.27              | 80715                                 | 1338.2                   | 1087.2                     | 487.1                   | 200.0                | 195.3 |
| 2022-02-23 | 11:49:00 | 43.40    | 9.13         | 157.87   | 200.16       | 4.85         | 291.08         | 23.40        | 21644        | 13978          | 35.29              | 76346                                 | 1341.7                   | 1086.4                     | 487.2                   | 200.5                | 195.3 |
| 2022-02-23 | 11:50:00 | 43.29    | 9.48         | 158.68   | 200.70       | 4.87         | 292.13         | 23.59        | 21631        | 14124          | 37.30              | 79939                                 | 1344.3                   | 1089.6                     | 487.1                   | 200.0                | 195.3 |
| 2022-02-23 | 11:51:00 | 43.37    | 9.18         | 157.50   | 199.80       | 4.75         | 285.23         | 23.74        | 21719        | 14163          | 34.59              | 73761                                 | 1341.8                   | 1088.7                     | 487.5                   | 200.5                | 195.3 |
| 2022-02-23 | 11:52:00 | 43.37    | 9.45         | 157.31   | 200.25       | 4.72         | 286.30         | 22.91        | 21600        | 14056          | 34.30              | 73363                                 | 1347.8                   | 1091.0                     | 487.8                   | 200.5                | 195.3 |
| 2022-02-23 | 11:53:00 | 43.61    | 9.40         | 158.77   | 201.38       | 4.75         | 284.78         | 23.96        | 21919        | 14034          | 35.97              | 76727                                 | 1341.1                   | 1088.9                     | 487.7                   | 200.5                | 195.3 |
| 2022-02-23 | 11:54:00 | 43.40    | 9.33         | 158.25   | 202.32       | 4.76         | 285.45         | 23.40        | 21844        | 14101          | 35.54              | 76246                                 | 1342.7                   | 1088.7                     | 487.6                   | 200.5                | 195.3 |
| 2022-02-23 | 11:55:00 | 43.40    | 9.04         | 158.73   | 201.33       | 4.82         | 288.98         | 23.03        | 21788        | 14197          | 35.44              | 76282                                 | 1340.6                   | 1088.7                     | 487.6                   | 200.5                | 195.3 |
| 2022-02-23 | 11:56:00 | 43.37    | 9.28         | 157.74   | 201.42       | 4.66         | 279.30         | 22.84        | 21869        | 14084          | 35.23              | 76184                                 | 1345.2                   | 1087.2                     | 487.3                   | 200.5                | 195.3 |
| 2022-02-23 | 11:57:00 | 43.61    | 9.44         | 159.05   | 201.20       | 4.69         | 281.10         | 22.80        | 21850        | 14056          | 35.21              | 76202                                 | 1345.2                   | 1085.6                     | 487.2                   | 200.5                | 195.3 |
| 2022-02-23 | 11:58:00 | 43.32    | 9.56         | 157.97   | 200.30       | 4.66         | 279.45         | 23.14        | 21675        | 14146          | 35.07              | 75713                                 | 1350.3                   | 1087.9                     | 487.2                   | 200.5                | 195.3 |
| 2022-02-23 | 11:59:00 | 43.61    | 9.43         | 157.59   | 199.71       | 4.66         | 279.68         | 23.33        | 22158        | 14258          | 34.91              | 74976                                 | 1343.9                   | 1089.1                     | 487.3                   | 200.0                | 195.3 |
| 2022-02-23 | 12:00:00 | 43.35    | 9.35         | 158.40   | 199.31       | 4.60         | 276.23         | 23.66        | 21688        | 14045          | 35.23              | 75417                                 | 1346.6                   | 1089.2                     | 486.9                   | 200.5                | 195.3 |
| 2022-02-23 | 12:01:00 | 43.32    | 9.40         | 157.92   | 199.76       | 4.60         | 275.93         | 23.10        | 22156        | 14258          | 36.26              | 77506                                 | 1345.9                   | 1089.2                     | 487.0                   | 200.0                | 195.3 |
| 2022-02-23 | 12:02:00 | 43.34    | 9.37         | 158.06   | 200.25       | 4.57         | 273.98         | 23.36        | 21781        | 14135          | 35.79              | 77014                                 | 1343.3                   | 1085.9                     | 486.9                   | 200.5                | 195.3 |
| 2022-02-23 | 12:03:00 | 42.99    | 9.07         | 157.25   | 200.70       | 4.56         | 273.45         | 23.40        | 22531        | 14348          | 37.13              | 80691                                 | 1336.7                   | 1085.3                     | 486.4                   | 200.5                | 195.3 |
| 2022-02-23 | 12:04:00 | 43.37    | 9.35         | 157.21   | 201.11       | 4.55         | 272.85         | 22.20        | 22075        | 14185          | 35.53              | 77809                                 | 1337.1                   | 1082.2                     | 485.8                   | 200.0                | 195.3 |
| 2022-02-23 | 12:05:00 | 43.26    | 9.19         | 159.01   | 202.01       | 4.49         | 269.55         | 23.78        | 22338        | 14185          | 37.26              | 81141                                 | 1338.3                   | 1081.6                     | 485.4                   | 200.0                | 195.3 |
| 2022-02-23 | 12:06:00 | 43.40    | 9.30         | 158.30   | 202.14       | 4.49         | 269.25         | 22.54        | 21756        | 14079          | 35.55              | 77346                                 | 1337.7                   | 1081.2                     | 484.7                   | 199.5                | 195.3 |
| 2022-02-23 | 12:07:00 | 43.13    | 9.62         | 157.74   | 200.12       | 4.49         | 269.18         | 22.73        | 21725        | 13955          | 35.03              | 75886                                 | 1342.2                   | 1083.5                     | 484.6                   | 198.5                | 195.3 |
| 2022-02-23 | 12:08:00 | 43.37    | 9.65         | 158.40   | 202.28       | 4.47         | 268.28         | 23.33        | 22081        | 14124          | 34.74              | 75031                                 | 1338.3                   | 1081.5                     | 484.5                   | 198.5                | 194.3 |
| 2022-02-23 | 12:09:00 | 43.32    | 9.18         | 157.35   | 200.75       | 4.42         | 265.35         | 23.85        | 21631        | 14096          | 34.83              | 75405                                 | 1345.6                   | 1082.5                     | 484.3                   | 198.0                | 194.3 |
| 2022-02-23 | 12:10:00 | 43.07    | 9.21         | 157.87   | 199.85       | 4.39         | 263.63         | 23.03        | 22019        | 14191          | 35.61              | 76947                                 | 1339.3                   | 1081.3                     | 483.6                   | 198.0                | 194.3 |
| 2022-02-23 | 12:11:00 | 43.02    | 9.35         | 157.64   | 200.84       | 4.40         | 264.08         | 23.36        | 21794        | 14141          | 35.73              | 77365                                 | 1342.1                   | 1080.5                     | 483.3                   | 197.5                | 194.3 |
| 2022-02-23 | 12:12:00 | 43.40    | 9.29         | 157.16   | 201.11       | 3.95         | 236.70         | 23.36        | 22200        | 14135          | 35.62              | 77943                                 | 1332.3                   | 1079.7                     | 483.1                   | 197.5                | 194.3 |
| 2022-02-23 | 12:13:00 | 43.44    | 9.16         | 157.21   | 201.83       | 3.98         | 238.50         | 22.69        | 21956        | 14135          | 35.48              | 77773                                 | 1332.3                   | 1079.3                     | 482.9                   | 197.5                | 194.3 |
| 2022-02-23 | 12:14:00 | 43.56    | 9.39         | 158.30   | 201.11       | 3.85         | 231.08         | 22.50        | 21775        | 14247          | 35.53              | 77680                                 | 1331.8                   | 1079.0                     | 482.3                   | 197.5                | 194.3 |
| 2022-02-23 | 12:15:00 | 43.58    | 9.45         | 158.73   | 201.60       | 3.88         | 232.88         | 23.66        | 22000        | 14141          | 34.89              | 76234                                 | 1336.1                   | 1079.5                     | 481.8                   | 197.0                | 193.3 |
| 2022-02-23 | 12:16:00 | 43.32    | 9.08         | 158.15   | 198.45       | 3.93         | 235.58         | 23.48        | 22450        | 14236          | 34.89              | 76126                                 | 1331.6                   | 1078.8                     | 481.2                   | 196.0                | 193.3 |
| 2022-02-23 | 12:17:00 | 43.58    | 9.67         | 158.34   | 199.08       | 3.98         | 238.73         | 23.14        | 21713        | 14129          | 34.84              | 75770                                 | 1333.9                   | 1076.0                     | 480.3                   | 195.5                | 193.3 |
| 2022-02-23 | 12:18:00 | 42.24    | 9.16         | 157.64   | 197.37       | 4.35         | 261.00         | 24.60        | 22394        | 14225          | 35.69              | 77702                                 | 1331.7                   | 1074.7                     | 479.4                   | 195.0                | 192.3 |
| 2022-02-23 | 12:19:00 | 43.53    | 9.06         | 158.58   | 199.40       | 4.42         | 265.05         | 23.55        | 22006        | 14208          | 35.54              | 77458                                 | 1325.7                   | 1071.3                     | 478.7                   | 195.0                | 192.3 |
| 2022-02-23 | 12:20:00 | 43.53    | 9.43         | 158.11   | 198.77       | 4.49         | 269.18         | 23.21        | 22506        | 14326          | 37.41              | 83023                                 | 1326.4                   | 1069.3                     | 477.5                   | 194.5                | 192.3 |
| 2022-02-23 | 12:21:00 | 43.25    | 9.25         | 158.82   | 198.27       | 4.52         | 271.35         | 23.21        | 22000        | 14219          | 35.33              | 78253                                 | 1320.7                   | 1067.8                     | 477.1                   | 194.5                | 191.3 |
| 2022-02-23 | 12:22:00 | 43.40    | 9.41         | 158.40   | 199.13       | 4.52         | 271.28         | 23.29        | 22163        | 14219          | 37.27              | 82737                                 | 1323.7                   | 1067.5                     | 476.3                   | 194.0                | 191.3 |
| 2022-02-23 | 12:23:00 | 43.56    | 9.39         | 158.21   | 200.84       | 4.55         | 272.70         | 22.91        | 21988        | 14101          | 35.51              | 78726                                 | 1323.3                   | 1068.1                     | 476.2                   | 194.0                | 191.3 |
| 2022-02-23 | 12:24:00 | 43.32    | 9.00         | 157.35   | 201.11       | 4.58         | 274.95         | 23.85        | 21819        | 14017          | 35.03              | 77437                                 | 1339.3                   | 1073.4                     | 476.0                   | 194.0                | 191.3 |
| 2022-02-23 | 12:25:00 | 43.25    | 9.23         | 158.68   | 201.29       | 4.62         | 276.98         | 22.50        | 21788        | 14107          | 35.11              | 76494                                 | 1339.3                   | 1075.2                     | 476.6                   | 194.5                | 191.3 |
| 2022-02-23 | 12:26:00 | 42.89    | 9.29         | 157.21   | 199.49       | 4.67         | 279.98         | 23.63        | 21694        | 14118          | 34.38              | 74939                                 | 1348.1                   | 1078.9                     | 477.2                   | 195.0                | 191.3 |
| 2022-02-23 | 12:27:00 | 43.37    | 9.32         | 158.21   | 201.02       | 4.67         | 280.43         | 23.25        | 22156        | 14152          | 35.63              | 77805                                 | 1344.2                   | 1079.8                     | 478.0                   | 195.5                | 191.3 |
| 2022-02-23 | 12:28:00 | 43.05    | 9.21         | 158.73   | 200.16       | 4.72         | 282.98         | 22.54        | 21781        | 14135          | 35.30              | 77053                                 | 1348.9                   | 1081.8                     | 479.5                   | 196.5                | 191.3 |
| 2022-02-23 | 12:29:00 | 43.22    | 9.24         | 158.49   | 200.30       | 4.75         | 284.78         | 23.33        | 22069        | 14129          | 36.04              | 79131                                 | 1348.6                   | 1082.6                     | 480.2                   | 197.0                | 191.3 |
| 2022-02-23 | 12:30:00 | 42.89    | 9.35         | 157.74   | 201.24       | 4.75         | 284.78         | 23.40        | 21875        | 14118          | 34.96              | 76864                                 | 1351.4                   | 1085.5                     | 481.4                   | 19                   |       |

| \$Date     | \$Time   | Rich  |         | Emulsion |        | Lean  |        | Alkaline |         | TDU Flow |        | Leachate |        | Primary |        | Secondary |        | Stack Velocity |            | Stack Flow |              | Primary       |           | Secondary |           | Quench |           | Stack  |           |
|------------|----------|-------|---------|----------|--------|-------|--------|----------|---------|----------|--------|----------|--------|---------|--------|-----------|--------|----------------|------------|------------|--------------|---------------|-----------|-----------|-----------|--------|-----------|--------|-----------|
|            |          | LPM   | FT-219C | LPM      | FT-223 | LPM   | PV-207 | LPM      | FT-313B | SCFM     | FT-313 | LPM      | PV-211 | LPM     | PV-236 | m3/h      | PV-209 | m3/h           | FT-260-VEL | m/s        | m3/s Ref Dry | FT-260-REFDRY | Degrees C | TE-240    | Degrees C | TE-203 | Degrees C | TE-204 | Degrees C |
| 2022-02-23 | 12:40:00 | 42.71 | 9.45    | 157.97   | 200.79 | 23.81 | 214.69 | 14101    | 35.00   | 75715    | 1361.6 | 1091.2   | 488.9  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:41:00 | 42.39 | 9.27    | 157.64   | 201.29 | 23.59 | 217.00 | 13972    | 34.81   | 75083    | 1366.6 | 1093.5   | 489.2  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:42:00 | 42.77 | 9.54    | 158.11   | 201.20 | 22.95 | 216.00 | 14084    | 35.25   | 75175    | 1363.7 | 1092.9   | 489.2  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:43:00 | 42.68 | 8.99    | 158.15   | 201.47 | 4.93  | 295.88 | 22.73    | 215.00  | 73753    | 1366.6 | 1096.2   | 489.5  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:44:00 | 42.83 | 9.31    | 158.87   | 201.42 | 4.76  | 288.15 | 22.28    | 220.98  | 75825    | 1363.1 | 1096.9   | 490.0  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:45:00 | 43.13 | 9.70    | 157.40   | 200.66 | 4.80  | 288.75 | 23.48    | 218.38  | 76617    | 1360.8 | 1097.0   | 490.4  | 202.0   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:46:00 | 42.72 | 9.04    | 158.15   | 201.38 | 4.81  | 288.60 | 22.16    | 219.88  | 76880    | 1357.2 | 1096.4   | 490.8  | 203.0   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:47:00 | 43.25 | 9.74    | 157.78   | 200.97 | 4.78  | 286.93 | 23.58    | 218.38  | 75550    | 1358.9 | 1096.8   | 491.1  | 203.5   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:48:00 | 42.78 | 9.35    | 157.55   | 201.42 | 4.76  | 285.53 | 22.58    | 218.38  | 75545    | 1359.9 | 1096.6   | 491.8  | 203.5   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:49:00 | 43.25 | 9.44    | 158.58   | 202.23 | 4.82  | 288.90 | 23.33    | 214.25  | 74524    | 1366.9 | 1097.8   | 492.2  | 203.5   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:50:00 | 43.05 | 9.11    | 157.44   | 201.38 | 4.81  | 288.30 | 24.49    | 222.81  | 75303    | 1362.7 | 1101.0   | 492.6  | 203.5   | 196.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:51:00 | 43.52 | 9.54    | 157.55   | 201.47 | 4.79  | 287.25 | 23.44    | 214.06  | 73836    | 1367.8 | 1100.6   | 492.9  | 203.5   | 197.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:52:00 | 43.29 | 9.15    | 157.68   | 201.29 | 4.83  | 289.58 | 23.44    | 218.94  | 78748    | 1369.9 | 1104.1   | 493.0  | 203.5   | 197.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:53:00 | 43.19 | 8.98    | 157.92   | 201.24 | 4.83  | 289.58 | 23.55    | 215.94  | 74565    | 1362.7 | 1103.4   | 493.8  | 204.5   | 197.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:54:00 | 43.11 | 9.23    | 158.73   | 200.79 | 4.81  | 288.53 | 22.29    | 217.19  | 78116    | 1365.2 | 1103.3   | 494.5  | 205.0   | 197.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:55:00 | 43.37 | 9.22    | 158.30   | 200.52 | 4.85  | 291.23 | 22.61    | 218.50  | 75595    | 1362.2 | 1101.3   | 495.4  | 205.0   | 197.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:56:00 | 43.38 | 9.23    | 158.87   | 200.52 | 4.82  | 289.05 | 23.63    | 216.19  | 74923    | 1365.2 | 1102.2   | 495.8  | 206.0   | 198.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:57:00 | 43.50 | 9.10    | 159.24   | 201.01 | 4.86  | 291.30 | 23.21    | 216.44  | 75493    | 1364.3 | 1103.4   | 496.5  | 206.5   | 198.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:58:00 | 43.38 | 9.64    | 158.82   | 200.97 | 4.94  | 296.10 | 22.95    | 214.94  | 72802    | 1368.4 | 1106.4   | 497.4  | 206.5   | 198.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 12:59:00 | 43.47 | 9.32    | 158.58   | 201.24 | 4.86  | 291.68 | 22.43    | 214.81  | 74526    | 1368.1 | 1106.0   | 497.9  | 206.5   | 198.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:00:00 | 43.40 | 8.96    | 154.23   | 200.48 | 4.93  | 295.73 | 23.21    | 213.88  | 71874    | 1370.1 | 1107.1   | 497.5  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:01:00 | 43.41 | 9.42    | 157.97   | 200.48 | 4.98  | 298.80 | 23.21    | 217.75  | 74812    | 1364.9 | 1107.6   | 497.7  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:02:00 | 43.41 | 9.66    | 157.92   | 201.29 | 4.92  | 294.98 | 22.16    | 217.56  | 74267    | 1365.2 | 1105.7   | 498.1  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:03:00 | 43.04 | 9.37    | 157.87   | 200.70 | 4.97  | 298.20 | 23.29    | 219.31  | 74972    | 1361.8 | 1105.1   | 498.0  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:04:00 | 43.25 | 9.42    | 157.78   | 200.48 | 4.90  | 294.08 | 23.29    | 216.00  | 75234    | 1363.3 | 1105.2   | 497.5  | 207.0   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:05:00 | 43.40 | 9.32    | 158.15   | 200.61 | 4.88  | 292.80 | 23.29    | 221.94  | 74660    | 1358.1 | 1103.4   | 497.1  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:06:00 | 43.22 | 9.11    | 158.06   | 201.56 | 4.97  | 297.98 | 23.29    | 215.81  | 74916    | 1360.8 | 1105.5   | 496.9  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:07:00 | 43.25 | 9.05    | 157.83   | 201.02 | 4.91  | 294.30 | 23.29    | 222.50  | 78251    | 1365.2 | 1107.6   | 497.1  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:08:00 | 42.66 | 9.08    | 157.07   | 200.30 | 4.90  | 293.85 | 24.64    | 214.88  | 74282    | 1364.7 | 1106.5   | 497.8  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:09:00 | 42.96 | 8.88    | 157.97   | 200.34 | 4.97  | 298.43 | 23.14    | 219.75  | 79073    | 1366.4 | 1106.9   | 497.4  | 206.0   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:10:00 | 43.38 | 9.71    | 157.78   | 200.34 | 4.98  | 298.58 | 23.33    | 219.00  | 74744    | 1357.6 | 1105.3   | 497.7  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:11:00 | 43.43 | 9.61    | 158.54   | 200.74 | 4.95  | 297.23 | 23.33    | 218.25  | 73756    | 1359.9 | 1106.0   | 497.6  | 206.5   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:12:00 | 43.41 | 9.38    | 158.92   | 201.83 | 4.99  | 299.10 | 23.33    | 218.75  | 74628    | 1354.7 | 1105.3   | 497.7  | 207.0   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:13:00 | 43.38 | 9.30    | 158.02   | 201.47 | 4.96  | 297.68 | 23.33    | 217.44  | 74346    | 1357.6 | 1106.4   | 497.8  | 207.0   | 199.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:14:00 | 43.11 | 9.35    | 158.02   | 200.97 | 5.04  | 302.10 | 23.40    | 214.75  | 74527    | 1355.6 | 1106.2   | 498.3  | 207.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:15:00 | 43.28 | 9.05    | 158.25   | 201.51 | 4.89  | 293.25 | 23.40    | 213.00  | 72519    | 1360.2 | 1108.4   | 498.2  | 207.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:16:00 | 43.19 | 9.27    | 158.49   | 200.97 | 4.94  | 296.40 | 23.59    | 216.13  | 73286    | 1362.4 | 1107.2   | 498.3  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:17:00 | 43.32 | 9.25    | 158.40   | 200.97 | 4.92  | 295.05 | 22.50    | 213.88  | 71806    | 1365.9 | 1108.0   | 498.3  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:18:00 | 43.19 | 9.55    | 157.87   | 201.42 | 4.94  | 296.48 | 23.03    | 220.56  | 74418    | 1358.3 | 1108.0   | 498.4  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:19:00 | 43.34 | 9.42    | 158.40   | 201.60 | 4.99  | 299.33 | 22.88    | 216.00  | 73809    | 1359.6 | 1106.9   | 499.0  | 207.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:20:00 | 43.32 | 9.42    | 158.49   | 201.60 | 4.97  | 298.13 | 23.06    | 220.69  | 75449    | 1357.1 | 1107.0   | 499.4  | 207.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:21:00 | 43.17 | 9.36    | 157.59   | 200.97 | 4.98  | 298.80 | 23.74    | 220.19  | 74727    | 1356.3 | 1106.7   | 499.1  | 207.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:22:00 | 43.19 | 9.50    | 157.44   | 200.66 | 5.00  | 299.78 | 22.91    | 212.81  | 71971    | 1366.8 | 1107.0   | 498.9  | 207.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:23:00 | 42.95 | 9.35    | 157.68   | 201.87 | 4.96  | 297.83 | 23.03    | 221.69  | 77288    | 1366.2 | 1109.3   | 498.7  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:24:00 | 42.95 | 9.35    | 157.68   | 201.87 | 4.96  | 297.83 | 23.03    | 221.69  | 77288    | 1366.2 | 1109.3   | 498.7  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:25:00 | 43.20 | 9.59    | 157.78   | 201.96 | 4.93  | 295.88 | 23.03    | 214.84  | 72070    | 1366.6 | 1107.4   | 498.9  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:26:00 | 42.86 | 9.20    | 157.74   | 203.00 | 4.98  | 298.95 | 22.95    | 216.56  | 77938    | 1375.6 | 1108.6   | 498.2  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:27:00 | 42.86 | 9.46    | 158.11   | 202.64 | 4.96  | 297.30 | 23.10    | 218.06  | 73607    | 1367.2 | 1106.1   | 498.7  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:28:00 | 42.59 | 9.06    | 157.87   | 201.65 | 4.96  | 297.60 | 23.10    | 215.88  | 74362    | 1371.2 | 1105.9   | 498.5  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:29:00 | 42.75 | 9.48    | 157.02   | 201.65 | 4.93  | 296.03 | 23.10    | 219.50  | 75563    | 1365.9 | 1103.1   | 498.4  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:30:00 | 42.72 | 9.37    | 157.78   | 202.14 | 4.94  | 296.40 | 23.10    | 218.06  | 75626    | 1366.2 | 1103.1   | 497.9  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:31:00 | 42.86 | 9.03    | 157.97   | 201.83 | 4.95  | 296.70 | 23.14    | 216.06  | 75106    | 1360.8 | 1101.7   | 497.4  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:32:00 | 42.83 | 9.23    | 157.35   | 201.65 | 4.94  | 296.55 | 23.14    | 215.19  | 73275    | 1370.3 | 1103.5   | 497.1  | 205.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:33:00 | 42.99 | 9.20    | 158.45   | 202.37 | 4.92  | 295.43 | 23.14    | 218.98  | 73564    | 1367.6 | 1104.0   | 496.7  | 205.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:34:00 | 42.96 | 9.20    | 157.40   | 203.27 | 4.92  | 295.13 | 23.55    | 216.81  | 72974    | 1369.9 | 1105.8   | 496.9  | 205.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:35:00 | 42.51 | 9.29    | 157.83   | 201.87 | 4.97  | 297.98 | 23.55    | 217.75  | 75521    | 1365.8 | 1106.1   | 497.3  | 205.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:36:00 | 42.41 | 9.42    | 158.34   | 201.42 | 4.88  | 292.95 | 23.55    | 217.56  | 74958    | 1362.3 | 1104.3   | 497.4  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:37:00 | 42.27 | 8.55    | 157.50   | 200.25 | 4.95  | 296.70 | 23.48    | 220.56  | 76479    | 1357.6 | 1103.4   | 497.7  | 206.0   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:38:00 | 43.10 | 9.30    | 158.06   | 202.14 | 4.94  | 296.18 | 23.14    | 215.94  | 75893    | 1359.4 | 1101.4   | 497.7  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:39:00 | 42.86 | 9.24    | 157.21   | 200.97 | 4.87  | 291.98 | 22.95    | 220.81  | 78223    | 1356.2 | 1103.4   | 497.7  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| 2022-02-23 | 13:40:00 | 43.11 | 8.93    | 157.44   | 202.86 | 4.92  | 294.98 | 23.03    | 215.25  | 74336    | 1364.3 | 1103.3   | 498.2  | 206.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| Max        |          | 43.52 | 9.74    | 159.24   | 203.27 | 5.04  | 302.10 | 24.64    | 222.81  | 79073    | 1375.6 | 1109.3   | 499.4  | 207.5   | 200.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| Min        |          | 42.27 | 8.55    | 154.23   | 200.25 | 4.76  | 285.53 | 22.16    | 212.81  | 71606    | 1354.7 | 1101.2   | 488.9  | 202.0   | 195.4  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| Average    |          | 43.07 | 9.30    | 157.93   | 201.33 | 4.90  | 294.28 | 23.21    | 217.40  | 74938    | 1363.4 | 1103.6   | 496.2  | 205.6   | 199.0  |           |        |                |            |            |              |               |           |           |           |        |           |        |           |
| Variance   |          | 0.10  | 0.05    | 0.46     | 0.46   | 0.00  | 16.78  | 0.20     | 58978   | 6825     | 20.7   | 17.8     | 9.2    | 2.6     | 2.9    |           |        |                |            |            |              |               |           |           |           |        |           |        |           |

| \$Date     | \$Time   | Rich  | Emulsion | Lean   | Alkaline | TDU Flow | TDU Flow | Leachate | Primary           | Secondary         | Stack Velocity | Stack Flow                | Primary   | Secondary | Quench    | Stack     |
|------------|----------|-------|----------|--------|----------|----------|----------|----------|-------------------|-------------------|----------------|---------------------------|-----------|-----------|-----------|-----------|
|            |          | LPM   | LPM      | LPM    | LPM      | SCFM     | LPM      | LPM      | m <sup>3</sup> /h | m <sup>3</sup> /h | m/s            | m <sup>3</sup> /s Ref Dry | Degrees C | Degrees C | Degrees C | Degrees C |
| 2022-02-23 | 13:52:00 | 42.42 | FT-219C  | FT-223 | PV-207   | FT-313B  | FT-313   | PV-211   | PV-236            | PV-209            | FT-260-VEL     | FT-260-REFDRY             | TE-240    | TE-241    | TE-203    | TE-204    |
| 2022-02-23 | 13:53:00 | 43.08 | 9.19     | 158.02 | 201.20   | 4.89     | 293.40   | 23.21    | 2169              | 14157             | 36.16          | 75651                     | 1353.1    | 1098.3    | 494.0     | 203.0     |
| 2022-02-23 | 13:54:00 | 43.08 | 9.40     | 157.92 | 202.37   | 4.80     | 288.23   | 23.21    | 21663             | 14185             | 35.70          | 74809                     | 1351.4    | 1097.2    | 493.9     | 203.0     |
| 2022-02-23 | 13:55:00 | 43.08 | 9.26     | 158.02 | 201.65   | 4.81     | 288.30   | 23.21    | 21694             | 14135             | 35.67          | 76493                     | 1347.7    | 1097.1    | 494.3     | 204.0     |
| 2022-02-23 | 13:56:00 | 43.07 | 9.28     | 158.34 | 201.56   | 4.82     | 289.20   | 23.21    | 22300             | 14124             | 36.94          | 79007                     | 1344.6    | 1097.8    | 494.4     | 203.5     |
| 2022-02-23 | 13:57:00 | 42.96 | 8.94     | 157.74 | 202.95   | 4.81     | 288.45   | 23.21    | 21681             | 13910             | 34.94          | 74255                     | 1346.4    | 1098.6    | 493.8     | 203.5     |
| 2022-02-23 | 13:58:00 | 42.69 | 9.24     | 158.21 | 202.64   | 4.79     | 287.63   | 23.21    | 21588             | 14169             | 37.98          | 80591                     | 1351.7    | 1101.8    | 493.9     | 203.0     |
| 2022-02-23 | 13:59:00 | 42.90 | 9.20     | 158.11 | 203.09   | 4.81     | 288.38   | 23.21    | 21619             | 13983             | 34.65          | 73105                     | 1346.8    | 1101.0    | 494.1     | 203.5     |
| 2022-02-23 | 14:00:00 | 42.63 | 9.01     | 157.55 | 200.93   | 4.81     | 288.75   | 23.29    | 21494             | 13989             | 34.18          | 72114                     | 1351.2    | 1102.5    | 494.3     | 203.0     |
| 2022-02-23 | 14:01:00 | 42.92 | 9.52     | 157.25 | 202.86   | 4.78     | 286.58   | 23.29    | 21981             | 14096             | 35.44          | 74890                     | 1345.4    | 1099.9    | 494.3     | 203.0     |
| 2022-02-23 | 14:02:00 | 42.86 | 9.20     | 158.40 | 201.65   | 4.81     | 288.45   | 23.14    | 21613             | 13983             | 35.38          | 75484                     | 1346.4    | 1100.2    | 494.4     | 203.5     |
| 2022-02-23 | 14:03:00 | 42.77 | 9.19     | 158.06 | 202.41   | 4.82     | 289.05   | 24.11    | 21881             | 14084             | 35.42          | 75663                     | 1343.3    | 1098.9    | 494.7     | 203.5     |
| 2022-02-23 | 14:04:00 | 42.57 | 9.16     | 158.30 | 202.05   | 4.76     | 285.60   | 23.25    | 21775             | 14118             | 35.29          | 75046                     | 1345.2    | 1097.8    | 494.5     | 203.5     |
| 2022-02-23 | 14:05:00 | 42.62 | 9.09     | 158.06 | 202.19   | 4.82     | 288.98   | 23.25    | 21656             | 14141             | 35.34          | 75440                     | 1347.6    | 1095.4    | 494.3     | 203.5     |
| 2022-02-23 | 14:06:00 | 43.11 | 9.11     | 157.83 | 200.16   | 4.72     | 283.20   | 23.25    | 21419             | 14089             | 34.97          | 74482                     | 1355.2    | 1097.0    | 493.8     | 203.0     |
| 2022-02-23 | 14:07:00 | 42.56 | 9.06     | 158.30 | 201.20   | 4.71     | 282.53   | 23.33    | 22013             | 14146             | 35.16          | 74290                     | 1351.2    | 1097.8    | 493.9     | 203.0     |
| 2022-02-23 | 14:08:00 | 42.95 | 9.27     | 158.64 | 202.14   | 4.73     | 284.03   | 23.33    | 21469             | 14051             | 34.65          | 72843                     | 1351.4    | 1098.2    | 493.6     | 203.0     |
| 2022-02-23 | 14:09:00 | 42.81 | 9.00     | 158.54 | 201.87   | 4.74     | 284.48   | 23.33    | 22481             | 14197             | 35.92          | 75556                     | 1348.7    | 1094.5    | 493.2     | 203.5     |
| 2022-02-23 | 14:10:00 | 42.99 | 9.78     | 158.40 | 201.87   | 4.69     | 281.18   | 24.26    | 22013             | 14073             | 35.36          | 74798                     | 1348.9    | 1096.4    | 493.1     | 203.0     |
| 2022-02-23 | 14:11:00 | 42.86 | 9.29     | 157.74 | 201.83   | 4.73     | 283.88   | 23.03    | 22313             | 14287             | 37.11          | 79694                     | 1348.9    | 1095.8    | 493.3     | 203.0     |
| 2022-02-23 | 14:12:00 | 42.84 | 9.40     | 158.02 | 201.33   | 4.74     | 284.33   | 23.14    | 21775             | 14045             | 35.19          | 75508                     | 1346.7    | 1094.0    | 493.6     | 203.5     |
| 2022-02-23 | 14:13:00 | 42.87 | 9.61     | 157.68 | 200.93   | 4.72     | 282.98   | 22.99    | 22275             | 14287             | 37.27          | 79933                     | 1346.1    | 1094.5    | 493.2     | 203.5     |
| 2022-02-23 | 14:14:00 | 42.83 | 8.82     | 157.31 | 200.75   | 4.84     | 290.25   | 23.99    | 21588             | 14185             | 35.24          | 75227                     | 1351.4    | 1093.7    | 492.9     | 203.0     |
| 2022-02-23 | 14:15:00 | 42.59 | 9.19     | 157.74 | 201.20   | 4.71     | 282.45   | 23.03    | 21694             | 14073             | 35.43          | 75289                     | 1357.4    | 1095.5    | 492.4     | 202.5     |
| 2022-02-23 | 14:16:00 | 42.80 | 9.13     | 158.58 | 202.23   | 4.74     | 284.25   | 23.29    | 21788             | 14051             | 35.43          | 75289                     | 1356.6    | 1092.8    | 492.1     | 202.0     |
| 2022-02-23 | 14:17:00 | 42.81 | 9.31     | 158.68 | 201.65   | 4.74     | 284.10   | 23.29    | 21650             | 14034             | 34.97          | 74996                     | 1353.7    | 1094.3    | 491.3     | 201.5     |
| 2022-02-23 | 14:18:00 | 42.83 | 9.41     | 158.87 | 201.96   | 4.80     | 288.00   | 23.29    | 22175             | 14202             | 36.07          | 76652                     | 1348.7    | 1092.4    | 491.2     | 201.5     |
| 2022-02-23 | 14:19:00 | 42.81 | 9.39     | 158.30 | 202.10   | 4.82     | 289.35   | 23.44    | 21675             | 14073             | 35.10          | 75210                     | 1348.9    | 1092.4    | 490.7     | 201.5     |
| 2022-02-23 | 14:20:00 | 42.50 | 9.25     | 157.83 | 200.34   | 4.75     | 284.78   | 22.88    | 22094             | 14169             | 35.87          | 77280                     | 1346.4    | 1091.2    | 490.5     | 202.0     |
| 2022-02-23 | 14:21:00 | 42.47 | 8.94     | 157.74 | 199.71   | 4.68     | 280.88   | 24.00    | 21850             | 14157             | 35.42          | 76250                     | 1347.2    | 1090.2    | 490.3     | 202.0     |
| 2022-02-23 | 14:22:00 | 42.48 | 9.60     | 158.34 | 201.15   | 4.63     | 277.80   | 23.55    | 21944             | 14163             | 35.36          | 76412                     | 1342.1    | 1089.7    | 489.8     | 202.0     |
| 2022-02-23 | 14:23:00 | 43.11 | 8.97     | 158.54 | 201.83   | 4.50     | 270.23   | 23.55    | 21431             | 14062             | 34.80          | 75359                     | 1345.4    | 1093.2    | 490.0     | 202.0     |
| 2022-02-23 | 14:24:00 | 42.47 | 9.25     | 158.40 | 201.02   | 4.60     | 276.15   | 23.33    | 22300             | 14258             | 34.96          | 74797                     | 1341.1    | 1094.9    | 489.9     | 201.5     |
| 2022-02-23 | 14:25:00 | 42.74 | 9.68     | 157.74 | 201.56   | 4.55     | 272.85   | 23.33    | 21463             | 14045             | 34.92          | 74843                     | 1346.8    | 1092.7    | 489.7     | 201.0     |
| 2022-02-23 | 14:26:00 | 42.60 | 9.32     | 157.78 | 200.75   | 4.59     | 275.10   | 23.33    | 22525             | 14163             | 36.00          | 76627                     | 1342.4    | 1091.9    | 489.5     | 200.5     |
| 2022-02-23 | 14:27:00 | 42.69 | 9.28     | 158.82 | 202.64   | 4.60     | 276.08   | 23.48    | 21900             | 14146             | 36.13          | 76979                     | 1342.1    | 1089.0    | 488.4     | 200.5     |
| 2022-02-23 | 14:28:00 | 42.29 | 9.27     | 158.02 | 201.15   | 4.64     | 278.10   | 22.46    | 22525             | 14141             | 36.71          | 79214                     | 1333.3    | 1086.8    | 488.2     | 200.0     |
| 2022-02-23 | 14:29:00 | 42.75 | 9.09     | 158.45 | 201.42   | 4.69     | 281.18   | 23.48    | 21944             | 14135             | 35.69          | 77197                     | 1334.8    | 1081.9    | 487.0     | 199.5     |
| 2022-02-23 | 14:30:00 | 42.74 | 9.13     | 158.54 | 201.33   | 4.67     | 280.28   | 23.74    | 22100             | 14320             | 37.55          | 81695                     | 1332.1    | 1082.2    | 485.9     | 199.0     |
| 2022-02-23 | 14:31:00 | 42.92 | 9.45     | 158.11 | 201.96   | 4.75     | 284.78   | 23.74    | 21781             | 14214             | 35.11          | 76379                     | 1334.6    | 1082.3    | 485.5     | 199.0     |
| 2022-02-23 | 14:32:00 | 42.90 | 9.57     | 158.77 | 199.98   | 4.84     | 290.10   | 23.03    | 21769             | 14118             | 34.97          | 76060                     | 1335.8    | 1085.7    | 485.0     | 198.5     |
| 2022-02-23 | 14:33:00 | 42.68 | 9.18     | 158.87 | 201.11   | 4.82     | 289.35   | 23.40    | 21644             | 14135             | 34.86          | 75165                     | 1331.4    | 1085.1    | 485.0     | 198.0     |
| 2022-02-23 | 14:34:00 | 42.45 | 9.04     | 157.12 | 200.30   | 4.84     | 290.10   | 22.73    | 21450             | 13944             | 34.24          | 73728                     | 1334.6    | 1086.4    | 484.7     | 198.0     |
| 2022-02-23 | 14:35:00 | 42.50 | 9.20     | 156.74 | 201.92   | 4.82     | 295.35   | 22.61    | 22075             | 14129             | 35.92          | 77295                     | 1329.6    | 1085.5    | 484.7     | 197.5     |
| 2022-02-23 | 14:36:00 | 42.36 | 9.12     | 156.97 | 201.11   | 4.87     | 292.28   | 23.40    | 21825             | 14219             | 35.53          | 77248                     | 1331.7    | 1084.4    | 484.7     | 198.0     |
| 2022-02-23 | 14:37:00 | 43.04 | 9.27     | 157.78 | 202.68   | 4.80     | 287.70   | 23.29    | 22075             | 14219             | 35.51          | 77865                     | 1328.9    | 1083.6    | 484.7     | 198.0     |
| 2022-02-23 | 14:38:00 | 42.54 | 9.02     | 158.45 | 202.55   | 4.67     | 280.28   | 23.29    | 21788             | 14090             | 34.79          | 74542                     | 1338.3    | 1087.9    | 484.4     | 197.5     |
| 2022-02-23 | 14:39:00 | 42.77 | 9.39     | 158.30 | 202.55   | 4.71     | 282.60   | 23.29    | 22575             | 14090             | 37.10          | 79124                     | 1337.9    | 1090.4    | 484.4     | 197.5     |
| 2022-02-23 | 14:40:00 | 42.95 | 9.62     | 157.78 | 201.29   | 4.73     | 283.95   | 23.06    | 21969             | 14208             | 35.81          | 76581                     | 1334.3    | 1088.5    | 484.6     | 198.0     |
| 2022-02-23 | 14:41:00 | 42.89 | 9.35     | 158.96 | 202.59   | 4.88     | 280.95   | 23.18    | 22100             | 14382             | 37.51          | 81344                     | 1332.6    | 1089.5    | 484.9     | 198.0     |
| 2022-02-23 | 14:42:00 | 42.93 | 9.02     | 158.45 | 202.55   | 4.67     | 280.28   | 23.29    | 21788             | 14090             | 34.79          | 74542                     | 1338.3    | 1087.9    | 484.4     | 197.5     |
| 2022-02-23 | 14:43:00 | 42.93 | 9.02     | 158.45 | 202.55   | 4.67     | 280.28   | 23.29    | 21788             | 14090             | 34.79          | 74542                     | 1338.3    | 1087.9    | 484.4     | 197.5     |
| 2022-02-23 | 14:44:00 | 42.95 | 9.62     | 157.78 | 201.29   | 4.73     | 283.95   | 23.06    | 21969             | 14208             | 35.81          | 76581                     | 1334.3    | 1088.5    | 484.6     | 198.0     |
| 2022-02-23 | 14:45:00 | 42.89 | 9.35     | 158.96 | 202.59   | 4.88     | 280.95   | 23.18    | 22100             | 14382             | 37.51          | 81344                     | 1332.6    | 1089.5    | 484.9     | 198.0     |
| 2022-02-23 | 14:46:00 | 42.77 | 9.11     | 157.87 | 202.41   | 4.67     | 280.13   | 23.21    | 21938             | 14039             | 35.71          | 77116                     | 1335.6    | 1088.5    | 485.3     | 198.5     |
| 2022-02-23 | 14:47:00 | 42.99 | 9.04     | 158.06 | 202.14   | 4.67     | 280.05   | 23.21    | 21938             | 14163             | 35.33          | 76706                     | 1343.7    | 1089.2    | 485.4     | 199.0     |
| 2022-02-23 | 14:48:00 | 42.81 | 9.34     | 159.15 | 202.28   | 4.67     | 280.35   | 22.54    | 21744             | 14124             | 35.10          | 75779                     | 1348.1    | 1088.6    | 485.6     | 199.5     |
| 2022-02-23 | 14:49:00 | 42.78 | 9.24     | 157.74 | 202.32   | 4.61     | 276.38   | 23.66    | 21750             | 13989             | 34.51          | 74918                     | 1355.8    | 1089.9    | 485.7     | 199.0     |
| 2022-02-23 | 14:50:00 | 42.98 | 9.63     | 158.40 | 202.59   | 4.88     | 274.50   | 24.11    | 21650             | 14090             | 34.21          | 73542                     | 1349.6    | 1090.3    | 485.7     | 199.0     |
| 2022-02-23 | 14:51:00 | 42.69 | 9.17     | 157.64 | 202.10   | 4.58     | 275.03   | 22.73    | 21744             | 14096             | 34.64          | 73757                     | 1352.1    | 1091.8    | 486.2     | 199.0     |
| 2022-02-23 | 14:52:00 | 42.83 | 9.40     | 157.87 | 202.32   | 4.59     | 275.18   | 23.78    | 22169             | 14247             | 35.52          | 75796                     | 1346.8    | 1092.0    | 486.6     | 199.0     |

| Max    | Min    | Average | Variance |
|--------|--------|---------|----------|
| 43.11  | 42.29  | 0.04    | 0.28     |
| 159.58 | 156.74 | 158.09  | 0.60     |
| 203.09 | 199.71 | 201.75  | 0.60     |
| 4.92   | 4.27   | 4.73    | 0.01     |
| 295.35 | 283.88 | 291.9   | 0.12     |
| 22575  | 21895  | 22169   | 9676     |
| 14382  | 13910  | 14133   | 9676     |
| 37.98  | 34.18  | 35.52   | 0.71     |
| 81695  | 72114  | 76110   | 4017757  |
| 1357.4 | 1328.9 | 1343.8  | 63.3     |
| 1102.5 | 1081.9 | 1092.2  | 29.7     |
| 494.7  | 489.6  | 491.6   | 15.6</   |

Table with columns: \$Date, \$Time, Rich, Emulsion, Lean, Alkaline, TDU Flow, TDU Flow, Leachate, Primary, Secondary, Stack Velocity, Stack Flow, Primary, Secondary, Quench, SDA, Stack. Rows represent time intervals from 2022-02-23 15:10:00 to 2022-02-23 16:10:00. Summary rows for Max, Min, Average, and Variance are at the bottom.



| SDate      | \$Time   | Incinerator<br>mmH2O | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH dP<br>mmH2O | CO<br>PPM   | HCl<br>PPM   | CO2<br>%   | H2O<br>% | THC<br>PPM | Main O2<br>% | Opacity<br>% | SO2<br>PPM | PAC<br>Lbs/h |
|------------|----------|----------------------|--------------------|-------------------|----------------|-------------|--------------|------------|----------|------------|--------------|--------------|------------|--------------|
| 2022-02-23 | 10:20:00 | PT-242A              | PT-249             | PT-615            | PDI-622        | AT-205-INEW | AT-213A-INEW | T-213B-INE | AT-213CB | T-259-INE  | AT-261A-INEW | AT-263       | T-264-INE  | 5C-PAC-FT    |
| 2022-02-23 | 10:21:00 | -24.15               | -53.38             | -114.38           | 290.44         | 32.52       | 94.32        | 8.34       | 47.69    | 8.60       | 8.77         | 0.56         | 237.90     | 25.96        |
| 2022-02-23 | 10:22:00 | -26.50               | -57.63             | -117.75           | 261.38         | 36.91       | 94.32        | 7.86       | 47.03    | 8.30       | 9.63         | 0.47         | 220.50     | 26.01        |
| 2022-02-23 | 10:23:00 | -18.95               | -45.75             | -111.49           | 271.81         | 39.63       | 95.44        | 7.77       | 46.73    | 8.70       | 9.63         | 0.57         | 214.20     | 26.07        |
| 2022-02-23 | 10:24:00 | -20.30               | -49.88             | -109.16           | 296.38         | 41.66       | 95.44        | 7.70       | 46.52    | 9.00       | 10.01        | 0.41         | 208.30     | 26.43        |
| 2022-02-23 | 10:25:00 | -14.60               | -43.25             | -101.18           | 307.56         | 41.66       | 95.44        | 7.75       | 46.66    | 9.10       | 10.01        | 0.36         | 209.50     | 26.33        |
| 2022-02-23 | 10:26:00 | -26.00               | -58.88             | -119.85           | 276.75         | 40.17       | 95.44        | 7.92       | 47.22    | 9.10       | 10.01        | 0.60         | 219.30     | 26.38        |
| 2022-02-23 | 10:27:00 | -16.90               | -45.38             | -104.40           | 305.13         | 37.13       | 96.61        | 8.00       | 47.37    | 9.20       | 9.79         | 0.49         | 225.60     | 25.44        |
| 2022-02-23 | 10:28:00 | -32.05               | -62.63             | -131.10           | 252.56         | 37.54       | 96.61        | 8.03       | 47.41    | 9.20       | 9.79         | 0.75         | 227.50     | 25.46        |
| 2022-02-23 | 10:29:00 | -18.70               | -45.25             | -109.58           | 284.13         | 37.47       | 97.78        | 8.04       | 47.47    | 8.80       | 9.56         | 0.71         | 230.00     | 26.15        |
| 2022-02-23 | 10:30:00 | -34.85               | -70.50             | -136.09           | 215.13         | 37.78       | 97.78        | 7.97       | 47.23    | 9.30       | 9.56         | 0.57         | 225.90     | 25.83        |
| 2022-02-23 | 10:31:00 | -26.65               | -64.75             | -122.10           | 237.81         | 38.73       | 99.66        | 7.91       | 46.97    | 9.20       | 9.56         | 0.59         | 219.60     | 25.54        |
| 2022-02-23 | 10:32:00 | -15.50               | -45.13             | -101.81           | 298.75         | 38.10       | 99.22        | 7.96       | 47.07    | 9.30       | 9.78         | 0.36         | 220.80     | 26.57        |
| 2022-02-23 | 10:33:00 | -13.90               | -42.25             | -98.96            | 310.81         | 36.88       | 99.22        | 8.04       | 47.28    | 9.60       | 9.78         | 0.31         | 226.60     | 26.33        |
| 2022-02-23 | 10:34:00 | -14.85               | -41.63             | -101.93           | 298.63         | 35.85       | 100.36       | 8.12       | 47.56    | 8.70       | 9.54         | 0.47         | 234.50     | 25.15        |
| 2022-02-23 | 10:35:00 | -13.20               | -42.38             | -98.51            | 308.81         | 34.21       | 100.36       | 8.18       | 47.75    | 9.50       | 9.31         | 0.52         | 240.00     | 25.15        |
| 2022-02-23 | 10:36:00 | -21.75               | -50.50             | -113.25           | 278.38         | 33.38       | 101.40       | 8.51       | 48.03    | 8.50       | 9.31         | 0.56         | 244.30     | 25.38        |
| 2022-02-23 | 10:37:00 | -17.45               | -48.63             | -106.39           | 286.19         | 33.61       | 101.40       | 8.43       | 47.77    | 9.00       | 9.06         | 0.60         | 240.20     | 25.78        |
| 2022-02-23 | 10:38:00 | -21.55               | -52.00             | -113.66           | 258.00         | 33.95       | 101.40       | 8.09       | 47.35    | 8.50       | 9.06         | 0.41         | 233.30     | 25.46        |
| 2022-02-23 | 10:39:00 | -20.55               | -53.50             | -110.70           | 270.81         | 33.95       | 102.86       | 8.11       | 47.40    | 8.60       | 9.06         | 0.61         | 238.30     | 26.57        |
| 2022-02-23 | 10:40:00 | -16.70               | -44.88             | -103.39           | 293.50         | 34.54       | 104.09       | 8.10       | 47.52    | 8.80       | 9.06         | 0.42         | 235.40     | 25.20        |
| 2022-02-23 | 10:41:00 | -12.70               | -38.25             | -97.76            | 305.88         | 33.81       | 105.78       | 8.14       | 47.73    | 9.30       | 9.06         | 0.30         | 237.00     | 26.41        |
| 2022-02-23 | 10:42:00 | -22.50               | -54.88             | -118.24           | 261.56         | 33.67       | 105.78       | 8.52       | 48.11    | 8.90       | 9.06         | 0.66         | 245.20     | 25.31        |
| 2022-02-23 | 10:43:00 | -12.20               | -38.00             | -98.78            | 296.63         | 32.49       | 105.78       | 8.57       | 48.34    | 9.20       | 9.06         | 0.51         | 252.20     | 26.54        |
| 2022-02-23 | 10:44:00 | -31.50               | -64.63             | -132.38           | 215.75         | 33.41       | 105.78       | 8.57       | 48.37    | 8.60       | 9.06         | 0.61         | 251.10     | 25.23        |
| 2022-02-23 | 10:45:00 | -19.50               | -50.38             | -111.38           | 282.25         | 32.02       | 108.47       | 8.84       | 48.19    | 8.50       | 9.06         | 0.56         | 249.60     | 26.41        |
| 2022-02-23 | 10:46:00 | -28.80               | -64.63             | -129.23           | 216.44         | 30.73       | 106.96       | 8.45       | 47.79    | 8.40       | 9.06         | 0.60         | 242.10     | 26.49        |
| 2022-02-23 | 10:47:00 | -16.40               | -45.88             | -108.64           | 262.38         | 31.65       | 106.96       | 8.11       | 47.66    | 8.20       | 9.34         | 0.37         | 234.70     | 26.04        |
| 2022-02-23 | 10:48:00 | -17.00               | -47.00             | -104.14           | 272.25         | 31.70       | 108.42       | 8.14       | 47.60    | 9.00       | 9.34         | 0.54         | 236.10     | 25.15        |
| 2022-02-23 | 10:49:00 | -12.15               | -39.75             | -97.46            | 304.31         | 32.21       | 108.42       | 8.22       | 48.07    | 8.60       | 9.34         | 0.35         | 241.80     | 26.46        |
| 2022-02-23 | 10:50:00 | -8.90                | -34.25             | -93.38            | 312.94         | 31.54       | 106.69       | 8.56       | 48.53    | 9.30       | 9.34         | 0.39         | 251.00     | 25.44        |
| 2022-02-23 | 10:51:00 | -13.00               | -39.13             | -99.26            | 299.56         | 30.86       | 106.69       | 8.94       | 48.84    | 8.20       | 9.04         | 0.51         | 260.30     | 25.20        |
| 2022-02-23 | 10:52:00 | -10.70               | -37.25             | -94.58            | 308.56         | 30.57       | 105.27       | 8.96       | 48.91    | 9.20       | 9.04         | 0.54         | 263.00     | 25.07        |
| 2022-02-23 | 10:53:00 | -19.95               | -49.75             | -110.93           | 278.38         | 30.42       | 103.60       | 8.96       | 48.87    | 8.30       | 9.04         | 0.62         | 261.60     | 25.91        |
| 2022-02-23 | 10:54:00 | -20.70               | -49.00             | -110.36           | 288.25         | 31.02       | 103.60       | 8.63       | 48.77    | 8.60       | 8.81         | 0.60         | 258.60     | 26.51        |
| 2022-02-23 | 10:55:00 | -18.65               | -48.50             | -112.01           | 256.19         | 32.59       | 102.30       | 8.21       | 48.39    | 8.30       | 9.06         | 0.49         | 244.80     | 26.41        |
| 2022-02-23 | 10:56:00 | -18.30               | -47.25             | -107.06           | 267.25         | 32.19       | 102.30       | 8.17       | 48.22    | 8.60       | 9.06         | 0.60         | 241.40     | 26.09        |
| 2022-02-23 | 10:57:00 | -17.60               | -46.75             | -107.06           | 291.88         | 31.88       | 102.30       | 8.15       | 48.06    | 8.50       | 9.06         | 0.45         | 238.30     | 26.28        |
| 2022-02-23 | 10:58:00 | -11.90               | -40.38             | -94.35            | 303.44         | 31.88       | 102.30       | 8.19       | 48.13    | 8.80       | 9.06         | 0.36         | 238.30     | 25.54        |
| 2022-02-23 | 10:59:00 | -25.05               | -53.63             | -121.13           | 252.31         | 31.60       | 102.30       | 8.52       | 48.29    | 8.50       | 9.06         | 0.60         | 245.20     | 25.78        |
| 2022-02-23 | 11:00:00 | -13.30               | -41.88             | -98.51            | 302.06         | 30.94       | 102.30       | 8.55       | 48.58    | 8.50       | 9.06         | 0.44         | 251.40     | 26.04        |
| 2022-02-23 | 11:01:00 | -31.65               | -66.50             | -130.99           | 217.25         | 32.26       | 102.30       | 8.57       | 48.82    | 8.40       | 9.06         | 0.66         | 249.70     | 26.01        |
| 2022-02-23 | 11:02:00 | -19.15               | -49.50             | -108.49           | 281.19         | 30.57       | 102.30       | 8.87       | 48.81    | 7.80       | 9.06         | 0.66         | 250.80     | 26.04        |
| 2022-02-23 | 11:03:00 | -21.40               | -57.38             | -118.54           | 241.50         | 29.76       | 102.30       | 8.48       | 48.36    | 8.10       | 9.06         | 0.66         | 245.50     | 25.94        |
| 2022-02-23 | 11:04:00 | -19.00               | -48.13             | -109.13           | 261.31         | 30.18       | 102.30       | 8.18       | 48.21    | 8.30       | 9.06         | 0.51         | 239.40     | 25.59        |
| 2022-02-23 | 11:05:00 | -15.30               | -44.88             | -102.11           | 272.38         | 31.18       | 102.30       | 8.14       | 48.02    | 8.20       | 9.06         | 0.50         | 238.20     | 26.51        |
| 2022-02-23 | 11:06:00 | -13.15               | -39.00             | -99.04            | 295.50         | 30.99       | 102.30       | 8.16       | 48.13    | 7.90       | 9.06         | 0.29         | 240.00     | 25.17        |
| 2022-02-23 | 11:07:00 | -8.80                | -35.25             | -93.60            | 306.31         | 30.93       | 102.30       | 8.22       | 48.56    | 8.40       | 9.06         | 0.41         | 243.00     | 26.46        |
| 2022-02-23 | 11:08:00 | -14.30               | -41.00             | -101.78           | 294.19         | 30.68       | 102.30       | 8.54       | 48.75    | 7.80       | 9.06         | 0.52         | 248.10     | 25.23        |
| 2022-02-23 | 11:09:00 | -11.65               | -36.75             | -96.30            | 303.94         | 30.78       | 102.30       | 8.58       | 48.78    | 8.50       | 9.06         | 0.47         | 250.50     | 25.65        |
| 2022-02-23 | 11:10:00 | -20.45               | -53.63             | -113.48           | 274.88         | 30.23       | 104.25       | 8.66       | 48.78    | 8.00       | 9.06         | 0.57         | 253.10     | 26.36        |
| 2022-02-23 | 11:11:00 | -17.10               | -46.88             | -107.25           | 286.44         | 30.82       | 104.25       | 8.59       | 48.75    | 8.20       | 9.06         | 0.64         | 249.50     | 26.17        |
| 2022-02-23 | 11:12:00 | -24.85               | -56.63             | -116.51           | 254.75         | 32.17       | 101.92       | 8.16       | 48.25    | 8.10       | 9.06         | 0.46         | 239.00     | 25.12        |
| 2022-02-23 | 11:13:00 | -16.85               | -44.63             | -105.71           | 266.88         | 30.97       | 103.79       | 8.14       | 48.06    | 8.40       | 9.06         | 0.54         | 236.40     | 26.15        |
| 2022-02-23 | 11:14:00 | -17.85               | -49.50             | -110.51           | 288.69         | 31.58       | 107.99       | 8.14       | 47.97    | 8.20       | 9.31         | 0.64         | 236.40     | 26.30        |
| 2022-02-23 | 11:15:00 | -10.30               | -38.25             | -95.59            | 305.19         | 31.74       | 106.35       | 8.20       | 48.27    | 8.50       | 9.31         | 0.31         | 239.80     | 26.17        |
| 2022-02-23 | 11:16:00 | -33.95               | -69.13             | -134.33           | 215.38         | 30.58       | 104.61       | 8.56       | 48.57    | 8.60       | 9.31         | 0.64         | 246.20     | 25.33        |
| 2022-02-23 | 11:17:00 | -12.45               | -38.63             | -97.01            | 297.63         | 30.46       | 104.79       | 8.93       | 48.89    | 8.50       | 9.10         | 0.41         | 254.40     | 26.46        |
| 2022-02-23 | 11:18:00 | -28.75               | -63.63             | -127.61           | 225.06         | 30.17       | 103.68       | 8.91       | 48.85    | 8.70       | 9.10         | 0.57         | 255.40     | 26.25        |
| 2022-02-23 | 11:19:00 | -18.60               | -46.75             | -107.89           | 280.38         | 30.00       | 103.68       | 8.93       | 48.91    | 8.20       | 9.10         | 0.69         | 256.50     | 26.49        |
| 2022-02-23 | 11:20:00 | -16.20               | -47.25             | -104.29           | 289.81         | 30.73       | 102.31       | 8.56       | 48.63    | 8.50       | 9.10         | 0.66         | 250.10     | 26.38        |
| Max        |          | -8.80                | -34.25             | -93.38            | 312.94         | 41.66       | 108.47       | 8.96       | 48.91    | 9.60       | 10.01        | 0.75         | 263.00     | 26.57        |
| Min        |          | -34.85               | -70.50             | -136.09           | 215.13         | 29.76       | 94.32        | 7.70       | 46.52    | 7.80       | 8.77         | 0.29         | 208.30     | 25.07        |
| Average    |          | -18.99               | -48.77             | -109.23           | 277.17         | 33.24       | 102.28       | 8.32       | 48.02    | 8.64       | 9.25         | 0.52         | 239.93     | 25.91        |
| Variance   |          | 39.68                | 77.35              | 119.54            | 735.80         | 9.92        | 13.29        | 0.11       | 0.42     | 0.19       | 0.09         | 0.01         | 159.58     | 0.24         |



| SDate      | STime    | Incinerator<br>mmH2O | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH dP<br>mmH2O | CO<br>PPM   | HCl<br>PPM   | CO2<br>%   | H2O<br>% | THC<br>PPM | Main O2<br>% | Opacity<br>% | SO2<br>PPM | PAC<br>Lbs/h |
|------------|----------|----------------------|--------------------|-------------------|----------------|-------------|--------------|------------|----------|------------|--------------|--------------|------------|--------------|
|            |          | PT-242A              | PT-249             | PT-615            | PDT-622        | AT-205-INEW | AT-213A-INEW | F-213B-INE | AT-213CB | T-259-INEV | AT-213A-INEW | AT-263       | T-264-INE  | 5C-PAC-FT    |
| 2022-02-23 | 12:40:00 | -13.30               | -41.38             | -99.45            | 293.50         | 33.99       | 102.71       | 8.15       | 48.13    | 10.40      | 9.10         | 0.36         | 243.80     | 25.17        |
| 2022-02-23 | 12:41:00 | -38.88               | -94.43             | -306.81           | 306.81         | 33.82       | 103.71       | 8.21       | 48.24    | 11.00      | 9.10         | 0.30         | 245.20     | 25.83        |
| 2022-02-23 | 12:42:00 | -42.13               | -99.94             | -286.88           | 315.7          | 33.57       | 103.71       | 8.61       | 48.81    | 9.90       | 9.10         | 0.50         | 256.20     | 26.25        |
| 2022-02-23 | 12:43:00 | -12.45               | -38.75             | -95.48            | 304.25         | 32.78       | 101.88       | 8.59       | 48.77    | 11.20      | 8.88         | 0.51         | 256.20     | 26.46        |
| 2022-02-23 | 12:44:00 | -18.15               | -51.38             | -109.80           | 274.25         | 32.78       | 101.88       | 8.94       | 49.00    | 9.90       | 8.88         | 0.61         | 260.90     | 25.62        |
| 2022-02-23 | 12:45:00 | -15.75               | -45.63             | -104.55           | 285.94         | 31.97       | 101.88       | 8.93       | 48.91    | 10.30      | 8.88         | 0.60         | 260.90     | 25.25        |
| 2022-02-23 | 12:46:00 | -18.40               | -46.50             | -109.80           | 253.13         | 32.20       | 102.96       | 8.25       | 48.47    | 9.80       | 9.10         | 0.60         | 247.40     | 25.62        |
| 2022-02-23 | 12:47:00 | -15.15               | -42.50             | -103.35           | 265.69         | 33.06       | 104.87       | 8.20       | 48.31    | 10.50      | 9.10         | 0.36         | 252.10     | 25.38        |
| 2022-02-23 | 12:48:00 | -15.35               | -44.38             | -103.58           | 284.63         | 33.32       | 106.37       | 8.29       | 48.66    | 11.00      | 9.10         | 0.76         | 255.00     | 25.88        |
| 2022-02-23 | 12:49:00 | -12.40               | -38.50             | -95.40            | 301.56         | 33.32       | 107.63       | 8.59       | 48.82    | 10.70      | 9.10         | 0.42         | 264.40     | 26.43        |
| 2022-02-23 | 12:50:00 | -19.55               | -50.25             | -112.69           | 270.94         | 33.13       | 107.63       | 8.96       | 48.96    | 11.10      | 8.89         | 0.57         | 270.00     | 26.36        |
| 2022-02-23 | 12:51:00 | -9.85                | -38.75             | -94.76            | 298.69         | 31.34       | 106.18       | 9.03       | 49.29    | 11.00      | 8.89         | 0.56         | 272.90     | 26.33        |
| 2022-02-23 | 12:52:00 | -27.85               | -63.50             | -128.14           | 240.31         | 31.96       | 108.11       | 9.04       | 49.32    | 10.00      | 8.65         | 0.62         | 259.60     | 25.41        |
| 2022-02-23 | 12:53:00 | -16.60               | -46.25             | -105.98           | 280.63         | 32.10       | 108.11       | 8.59       | 48.70    | 10.50      | 8.65         | 0.45         | 257.70     | 26.07        |
| 2022-02-23 | 12:54:00 | -28.95               | -65.50             | -125.70           | 233.06         | 30.73       | 106.72       | 8.60       | 48.71    | 10.00      | 8.90         | 0.52         | 252.70     | 25.91        |
| 2022-02-23 | 12:55:00 | -15.40               | -45.63             | -105.41           | 259.56         | 30.73       | 109.63       | 8.28       | 48.35    | 10.80      | 8.90         | 0.25         | 260.50     | 26.46        |
| 2022-02-23 | 12:56:00 | -13.85               | -43.25             | -101.44           | 271.31         | 31.71       | 109.63       | 8.54       | 48.56    | 10.40      | 8.90         | 0.37         | 264.70     | 26.20        |
| 2022-02-23 | 12:57:00 | -9.75                | -35.25             | -93.83            | 290.00         | 32.48       | 112.98       | 9.26       | 48.97    | 11.20      | 9.11         | 0.54         | 277.80     | 26.49        |
| 2022-02-23 | 12:58:00 | -10.35               | -36.00             | -92.14            | 306.13         | 31.85       | 112.98       | 9.39       | 49.32    | 9.90       | 8.65         | 0.50         | 277.80     | 26.49        |
| 2022-02-23 | 12:59:00 | -12.55               | -40.25             | -98.40            | 290.69         | 30.73       | 112.98       | 9.41       | 49.39    | 9.60       | 8.65         | 0.59         | 276.60     | 26.38        |
| 2022-02-23 | 13:00:00 | -12.00               | -38.50             | -95.70            | 306.69         | 32.00       | 110.11       | 9.06       | 49.13    | 9.90       | 8.65         | 0.66         | 271.60     | 26.38        |
| 2022-02-23 | 13:01:00 | -16.55               | -45.88             | -107.51           | 275.69         | 30.95       | 108.87       | 8.57       | 48.74    | 9.80       | 8.97         | 0.56         | 256.70     | 26.43        |
| 2022-02-23 | 13:02:00 | -13.45               | -42.38             | -100.95           | 282.81         | 30.04       | 107.42       | 8.54       | 48.56    | 10.40      | 8.90         | 0.64         | 251.70     | 25.15        |
| 2022-02-23 | 13:03:00 | -18.35               | -48.50             | -109.31           | 251.19         | 31.53       | 109.42       | 8.99       | 49.21    | 10.40      | 8.61         | 0.60         | 270.90     | 25.10        |
| 2022-02-23 | 13:04:00 | -15.70               | -45.00             | -102.56           | 264.50         | 31.21       | 109.37       | 8.61       | 48.89    | 10.30      | 8.61         | 0.60         | 268.60     | 25.17        |
| 2022-02-23 | 13:05:00 | -13.50               | -44.50             | -101.55           | 281.69         | 31.94       | 109.37       | 8.25       | 48.46    | 10.40      | 9.18         | 0.64         | 268.60     | 25.28        |
| 2022-02-23 | 13:06:00 | -9.40                | -38.13             | -93.41            | 294.88         | 32.14       | 109.42       | 8.58       | 48.71    | 10.40      | 8.61         | 0.66         | 256.70     | 26.15        |
| 2022-02-23 | 13:07:00 | -21.65               | -49.88             | -116.66           | 262.25         | 31.63       | 109.42       | 8.90       | 48.81    | 10.10      | 8.98         | 0.51         | 255.50     | 25.70        |
| 2022-02-23 | 13:08:00 | -10.25               | -35.63             | -93.19            | 293.50         | 30.73       | 109.42       | 8.61       | 48.75    | 10.40      | 8.98         | 0.47         | 255.50     | 26.30        |
| 2022-02-23 | 13:09:00 | -27.30               | -58.50             | -124.91           | 242.19         | 30.77       | 109.42       | 8.61       | 48.89    | 9.90       | 8.98         | 0.29         | 257.30     | 25.83        |
| 2022-02-23 | 13:10:00 | -15.90               | -46.13             | -104.25           | 279.81         | 31.52       | 109.42       | 8.92       | 49.12    | 10.70      | 8.98         | 0.37         | 260.80     | 26.51        |
| 2022-02-23 | 13:11:00 | -19.70               | -56.00             | -112.20           | 246.25         | 31.83       | 108.03       | 9.32       | 49.48    | 9.80       | 8.98         | 0.49         | 271.90     | 26.46        |
| 2022-02-23 | 13:12:00 | -15.05               | -45.13             | -104.51           | 258.75         | 32.57       | 109.37       | 9.04       | 49.44    | 10.90      | 8.98         | 0.54         | 271.90     | 26.41        |
| 2022-02-23 | 13:13:00 | -12.65               | -41.50             | -100.73           | 269.13         | 32.29       | 109.37       | 9.12       | 49.45    | 9.80       | 8.75         | 0.60         | 273.10     | 25.07        |
| 2022-02-23 | 13:14:00 | -11.00               | -39.88             | -96.79            | 291.50         | 31.91       | 109.37       | 9.10       | 49.31    | 10.40      | 8.75         | 0.64         | 271.50     | 25.07        |
| 2022-02-23 | 13:15:00 | -9.00                | -35.25             | -92.70            | 300.38         | 31.03       | 109.37       | 8.61       | 48.78    | 10.10      | 8.75         | 0.45         | 258.00     | 26.46        |
| 2022-02-23 | 13:16:00 | -12.90               | -40.88             | -97.01            | 285.94         | 31.14       | 109.37       | 9.04       | 49.44    | 10.90      | 8.98         | 0.54         | 258.00     | 26.25        |
| 2022-02-23 | 13:17:00 | -8.10                | -35.88             | -91.69            | 300.06         | 31.99       | 109.37       | 8.60       | 48.89    | 10.30      | 8.99         | 0.60         | 258.00     | 25.54        |
| 2022-02-23 | 13:18:00 | -15.80               | -45.13             | -106.50           | 275.75         | 31.72       | 109.37       | 8.96       | 49.14    | 10.90      | 8.99         | 0.29         | 260.40     | 26.15        |
| 2022-02-23 | 13:19:00 | -14.50               | -44.13             | -102.23           | 282.13         | 31.13       | 109.37       | 9.01       | 49.13    | 10.90      | 8.99         | 0.60         | 263.00     | 25.33        |
| 2022-02-23 | 13:20:00 | -17.90               | -51.00             | -110.06           | 253.13         | 31.75       | 109.37       | 9.41       | 49.44    | 10.50      | 8.75         | 0.54         | 275.90     | 25.17        |
| 2022-02-23 | 13:21:00 | -14.90               | -44.00             | -101.55           | 263.69         | 31.97       | 110.48       | 8.61       | 48.92    | 10.30      | 8.99         | 0.59         | 274.10     | 25.73        |
| 2022-02-23 | 13:22:00 | -13.50               | -40.38             | -101.51           | 283.06         | 32.28       | 110.48       | 8.60       | 48.89    | 10.90      | 8.99         | 0.60         | 276.60     | 26.25        |
| 2022-02-23 | 13:23:00 | -7.50                | -35.50             | -89.70            | 298.44         | 32.03       | 110.48       | 8.66       | 48.97    | 10.60      | 8.75         | 0.66         | 263.60     | 26.49        |
| 2022-02-23 | 13:24:00 | -28.60               | -61.88             | -128.93           | 241.00         | 31.09       | 110.48       | 8.63       | 48.93    | 9.70       | 8.75         | 0.29         | 259.10     | 25.59        |
| 2022-02-23 | 13:25:00 | -8.45                | -37.13             | -91.99            | 291.75         | 32.08       | 109.95       | 8.57       | 48.67    | 10.70      | 9.02         | 0.50         | 251.00     | 25.57        |
| 2022-02-23 | 13:26:00 | -23.95               | -59.88             | -118.24           | 244.56         | 33.19       | 108.65       | 9.37       | 49.41    | 11.40      | 8.75         | 0.60         | 276.60     | 26.25        |
| 2022-02-23 | 13:27:00 | -15.55               | -46.50             | -103.84           | 282.56         | 32.43       | 107.31       | 8.66       | 48.97    | 10.60      | 8.75         | 0.66         | 263.60     | 26.49        |
| 2022-02-23 | 13:28:00 | -11.55               | -40.25             | -98.48            | 291.69         | 32.24       | 105.40       | 8.63       | 48.93    | 9.70       | 8.75         | 0.29         | 259.10     | 25.59        |
| 2022-02-23 | 13:29:00 | -15.50               | -42.13             | -104.89           | 259.31         | 32.59       | 105.40       | 8.57       | 48.67    | 10.70      | 9.02         | 0.50         | 251.00     | 25.57        |
| 2022-02-23 | 13:30:00 | -12.30               | -38.50             | -99.38            | 268.44         | 32.27       | 106.55       | 8.30       | 48.83    | 9.70       | 9.02         | 0.35         | 247.80     | 26.30        |
| 2022-02-23 | 13:31:00 | -11.30               | -39.00             | -97.54            | 291.88         | 33.83       | 108.09       | 8.30       | 48.80    | 10.80      | 9.02         | 0.40         | 249.90     | 26.43        |
| 2022-02-23 | 13:32:00 | -9.20                | -37.00             | -93.08            | 305.81         | 33.59       | 108.09       | 8.97       | 49.33    | 9.90       | 9.02         | 0.51         | 263.40     | 26.43        |
| 2022-02-23 | 13:33:00 | -14.75               | -43.00             | -100.28           | 288.50         | 33.40       | 108.09       | 9.00       | 49.38    | 11.00      | 9.02         | 0.54         | 265.30     | 26.38        |
| 2022-02-23 | 13:34:00 | -9.25                | -35.50             | -92.59            | 306.31         | 33.30       | 108.09       | 9.11       | 49.50    | 10.30      | 9.02         | 0.65         | 270.90     | 26.43        |
| 2022-02-23 | 13:35:00 | -18.75               | -48.13             | -109.65           | 276.63         | 32.31       | 108.09       | 9.07       | 49.31    | 10.10      | 8.73         | 0.62         | 269.20     | 26.78        |
| 2022-02-23 | 13:36:00 | -15.70               | -44.38             | -103.43           | 284.19         | 31.26       | 106.65       | 8.26       | 48.44    | 9.90       | 8.73         | 0.50         | 251.20     | 26.51        |
| 2022-02-23 | 13:37:00 | -21.80               | -53.50             | -113.99           | 253.88         | 31.42       | 106.65       | 8.23       | 48.33    | 10.10      | 9.01         | 0.54         | 244.60     | 26.04        |
| 2022-02-23 | 13:38:00 | -15.30               | -47.75             | -103.46           | 262.88         | 32.71       | 108.76       | 8.21       | 48.35    | 10.00      | 9.01         | 0.64         | 243.30     | 26.15        |
| 2022-02-23 | 13:39:00 | -23.45               | -51.63             | -115.05           | 273.94         | 33.32       | 108.76       | 8.57       | 48.76    | 10.90      | 9.01         | 0.37         | 249.50     | 25.38        |
| 2022-02-23 | 13:40:00 | -7.65                | -36.00             | -92.51            | 296.50         | 34.54       | 110.41       | 8.57       | 48.76    | 10.90      | 9.01         | 0.76         | 277.80     | 26.78        |
| 2022-02-23 | 13:41:00 | -35.25               | -89.70             | -129.93           | 306.81         | 34.54       | 112.98       | 8.15       | 48.13    | 9.60       | 8.61         | 0.25         | 243.30     | 25.07        |
| 2022-02-23 | 13:42:00 | -65.50               | -128.93            | -233.06           | 30.04          | 101.88      | 101.88       | 8.77       | 48.92    | 10.38      | 8.90         | 0.51         | 260.46     | 25.94        |
| 2022-02-23 | 13:43:00 | -15.05               | -44.33             | -103.26           | 278.05         | 32.16       | 108.12       | 0.14       | 0.14     | 0.21       | 0.03         | 0.01         | 92.61      | 0.26         |
| 2022-02-23 | 13:44:00 | 26.74                | 52.62              | 86.64             | 381.77         | 0.94        | 6.72         | 0.14       | 0.14     | 0.21       | 0.03         | 0.01         | 92.61      | 0.26         |

| Max    | Min     | Average | Variance |
|--------|---------|---------|----------|
| -7.50  | -65.50  | -15.05  | 26.74    |
| -89.70 | -128.93 | -103.26 | 86.64    |
| 306.81 | 233.06  | 278.05  | 381.77   |
| 34.54  | 3.04    | 32.16   | 0.94     |
| 112.98 | 101.88  | 108.12  | 6.72     |
| 9.42   | 8.15    | 8.77    | 0.14     |
| 49.52  | 48.13   | 48.92   | 0.14     |
| 11.40  | 9.60    | 10.38   | 0.21     |
| 8.61   | 8.61    | 8.90    | 0.03     |
| 0.76   | 0.25    | 0.51    | 0.01     |
| 277.80 | 243.30  | 260.46  | 92.61    |
| 26.78  | 25.07   | 25.94   | 0.26     |



| Date       | Time     | Incinerator | SDA Inlet | BH Inlet | BH dP   | CO          | HCl          | CO2        | H2O     | THC    | Main O2     | Opacity | PAC       |           |
|------------|----------|-------------|-----------|----------|---------|-------------|--------------|------------|---------|--------|-------------|---------|-----------|-----------|
|            |          | mmH2O       | mmH2O     | mmH2O    | PPM     | %           | PPM          | PPM        | %       | PPM    | %           | %       | PPM       | Lbs/h     |
|            |          | PT-242A     | PT-249    | PT-615   | PDT-622 | AT-205-INEW | AT-213A-INEW | F-213B-INE | AT-213C | AT-263 | AT-264-INEW | AT-263  | T-264-INE | SC-PAC-FT |
| 2022-02-23 | 13:52:00 | -20.50      | -52.50    | -112.69  | 276.06  | 33.82       | 104.86       | 8.65       | 49.30   | 10.70  | 9.00        | 0.60    | 255.00    | 26.25     |
| 2022-02-23 | 13:53:00 | -17.55      | -47.50    | -105.68  | 282.13  | 34.32       | 102.31       | 8.52       | 49.14   | 10.10  | 9.00        | 0.64    | 248.00    | 26.41     |
| 2022-02-23 | 13:54:00 | -22.30      | -51.00    | -116.63  | 249.94  | 33.98       | 102.31       | 8.14       | 48.25   | 9.90   | 9.00        | 0.50    | 240.40    | 26.38     |
| 2022-02-23 | 13:55:00 | -14.75      | -42.13    | -104.36  | 258.38  | 33.04       | 104.03       | 8.17       | 48.18   | 10.40  | 9.00        | 0.54    | 240.00    | 25.20     |
| 2022-02-23 | 13:56:00 | -31.45      | -64.50    | -128.66  | 239.06  | 34.20       | 105.81       | 8.17       | 48.30   | 10.70  | 9.00        | 0.62    | 240.00    | 25.62     |
| 2022-02-23 | 13:57:00 | -9.80       | -38.38    | -95.29   | 292.13  | 34.07       | 105.81       | 8.21       | 48.62   | 10.90  | 9.28        | 0.29    | 243.90    | 26.43     |
| 2022-02-23 | 13:58:00 | -29.50      | -65.75    | -128.21  | 245.31  | 33.03       | 105.81       | 8.24       | 48.74   | 11.30  | 9.28        | 0.45    | 247.20    | 26.41     |
| 2022-02-23 | 13:59:00 | -10.65      | -38.13    | -96.00   | 291.50  | 33.94       | 104.78       | 8.66       | 49.18   | 10.10  | 8.96        | 0.39    | 259.70    | 26.43     |
| 2022-02-23 | 14:00:00 | -8.80       | -34.00    | -92.03   | 308.56  | 33.30       | 104.78       | 8.62       | 49.02   | 10.70  | 8.96        | 0.54    | 257.70    | 26.51     |
| 2022-02-23 | 14:01:00 | -17.60      | -47.38    | -107.03  | 278.56  | 33.79       | 104.78       | 8.62       | 49.13   | 9.70   | 8.96        | 0.56    | 259.20    | 26.09     |
| 2022-02-23 | 14:02:00 | -16.35      | -44.38    | -103.01  | 288.00  | 33.25       | 103.56       | 8.22       | 48.46   | 10.40  | 8.96        | 0.69    | 247.70    | 25.99     |
| 2022-02-23 | 14:03:00 | -16.05      | -45.13    | -105.79  | 252.69  | 33.70       | 103.56       | 8.21       | 48.39   | 10.10  | 8.96        | 0.56    | 244.00    | 26.09     |
| 2022-02-23 | 14:04:00 | -15.85      | -43.25    | -102.15  | 266.69  | 34.90       | 105.51       | 8.23       | 48.61   | 10.50  | 8.96        | 0.56    | 245.40    | 25.36     |
| 2022-02-23 | 14:05:00 | -13.30      | -40.38    | -98.25   | 284.56  | 33.90       | 105.51       | 8.20       | 48.62   | 9.90   | 9.20        | 0.19    | 244.30    | 26.33     |
| 2022-02-23 | 14:06:00 | -10.10      | -39.13    | -94.01   | 298.44  | 34.31       | 105.51       | 8.19       | 48.58   | 11.20  | 9.20        | 0.35    | 242.80    | 25.41     |
| 2022-02-23 | 14:07:00 | -13.85      | -39.88    | -102.15  | 282.19  | 34.60       | 104.40       | 8.87       | 49.00   | 10.40  | 9.20        | 0.67    | 252.70    | 26.57     |
| 2022-02-23 | 14:08:00 | -10.60      | -35.75    | -93.60   | 295.44  | 33.53       | 102.78       | 8.91       | 49.14   | 11.10  | 8.95        | 0.50    | 256.30    | 26.46     |
| 2022-02-23 | 14:09:00 | -18.05      | -45.88    | -111.56  | 272.38  | 34.10       | 102.78       | 8.64       | 49.13   | 10.90  | 8.95        | 0.51    | 255.70    | 25.65     |
| 2022-02-23 | 14:10:00 | -17.80      | -46.88    | -106.16  | 282.31  | 34.10       | 102.78       | 8.61       | 48.94   | 10.40  | 8.95        | 0.56    | 253.80    | 26.51     |
| 2022-02-23 | 14:11:00 | -27.15      | -55.25    | -122.63  | 242.31  | 33.69       | 100.01       | 8.13       | 48.15   | 10.30  | 8.95        | 0.60    | 239.40    | 26.38     |
| 2022-02-23 | 14:12:00 | -18.95      | -46.88    | -106.95  | 261.06  | 34.47       | 102.44       | 8.15       | 48.18   | 10.40  | 8.95        | 0.49    | 237.30    | 26.12     |
| 2022-02-23 | 14:13:00 | -30.85      | -61.13    | -128.29  | 239.31  | 35.91       | 105.52       | 8.14       | 48.22   | 10.50  | 9.15        | 0.66    | 237.30    | 25.25     |
| 2022-02-23 | 14:14:00 | -11.80      | -36.88    | -94.28   | 294.63  | 36.62       | 105.52       | 8.16       | 48.45   | 10.60  | 9.15        | 0.35    | 238.70    | 26.49     |
| 2022-02-23 | 14:15:00 | -19.50      | -55.00    | -113.29  | 267.19  | 35.59       | 105.52       | 8.18       | 48.45   | 11.40  | 9.15        | 0.39    | 238.70    | 25.88     |
| 2022-02-23 | 14:16:00 | -11.80      | -38.25    | -97.46   | 289.06  | 33.69       | 106.52       | 8.54       | 48.75   | 10.60  | 9.15        | 0.47    | 250.40    | 26.41     |
| 2022-02-23 | 14:17:00 | -11.65      | -38.13    | -95.85   | 305.88  | 35.28       | 102.91       | 8.25       | 48.55   | 11.60  | 8.90        | 0.54    | 247.50    | 26.36     |
| 2022-02-23 | 14:18:00 | -19.10      | -50.50    | -110.10  | 273.81  | 35.63       | 104.23       | 8.29       | 48.73   | 10.40  | 8.90        | 0.51    | 249.60    | 25.28     |
| 2022-02-23 | 14:19:00 | -17.40      | -47.13    | -106.39  | 284.06  | 35.58       | 103.08       | 8.16       | 48.37   | 10.50  | 8.90        | 0.59    | 242.20    | 25.65     |
| 2022-02-23 | 14:20:00 | -21.10      | -52.63    | -111.71  | 253.31  | 35.70       | 103.08       | 8.11       | 48.12   | 10.30  | 9.13        | 0.39    | 237.80    | 26.17     |
| 2022-02-23 | 14:21:00 | -16.95      | -45.25    | -106.65  | 263.63  | 35.84       | 105.79       | 8.12       | 48.20   | 10.50  | 9.13        | 0.51    | 237.30    | 25.38     |
| 2022-02-23 | 14:22:00 | -13.85      | -37.88    | -100.28  | 281.50  | 34.34       | 107.12       | 8.08       | 47.94   | 9.90   | 9.41        | 0.21    | 234.60    | 26.51     |
| 2022-02-23 | 14:23:00 | -11.95      | -34.75    | -93.75   | 293.25  | 33.83       | 107.12       | 8.06       | 47.81   | 11.20  | 9.41        | 0.29    | 233.30    | 25.15     |
| 2022-02-23 | 14:24:00 | -18.60      | -44.63    | -108.90  | 283.19  | 35.37       | 108.46       | 8.48       | 48.46   | 10.40  | 9.41        | 0.62    | 245.40    | 26.36     |
| 2022-02-23 | 14:25:00 | -11.70      | -35.88    | -95.55   | 294.75  | 34.99       | 108.46       | 8.53       | 48.71   | 10.80  | 9.19        | 0.50    | 249.60    | 26.01     |
| 2022-02-23 | 14:26:00 | -27.00      | -54.13    | -118.54  | 275.50  | 34.97       | 106.59       | 8.22       | 48.72   | 10.30  | 9.19        | 0.66    | 247.50    | 26.36     |
| 2022-02-23 | 14:27:00 | -18.50      | -47.75    | -107.14  | 279.56  | 34.97       | 102.71       | 8.13       | 48.37   | 10.10  | 9.19        | 0.62    | 238.40    | 25.23     |
| 2022-02-23 | 14:28:00 | -34.85      | -69.13    | -132.49  | 230.25  | 36.39       | 102.71       | 8.03       | 48.09   | 10.50  | 9.19        | 0.62    | 231.40    | 25.80     |
| 2022-02-23 | 14:29:00 | -20.45      | -52.00    | -108.49  | 258.63  | 39.95       | 102.71       | 7.96       | 48.00   | 10.90  | 9.49        | 0.45    | 225.80    | 25.96     |
| 2022-02-23 | 14:30:00 | -30.75      | -66.00    | -129.53  | 241.31  | 41.04       | 102.71       | 7.91       | 47.91   | 10.80  | 9.49        | 0.59    | 221.30    | 25.02     |
| 2022-02-23 | 14:31:00 | -14.25      | -39.63    | -98.74   | 286.63  | 39.00       | 102.71       | 7.96       | 47.79   | 10.90  | 9.49        | 0.27    | 221.30    | 25.94     |
| 2022-02-23 | 14:32:00 | -12.10      | -37.75    | -94.28   | 303.25  | 37.69       | 102.71       | 8.00       | 47.84   | 11.10  | 9.49        | 0.27    | 223.30    | 25.10     |
| 2022-02-23 | 14:33:00 | -15.15      | -43.25    | -102.45  | 287.75  | 36.25       | 101.08       | 8.14       | 48.36   | 10.40  | 9.49        | 0.50    | 233.90    | 26.51     |
| 2022-02-23 | 14:34:00 | -14.95      | -43.00    | -99.38   | 302.25  | 37.64       | 101.08       | 8.11       | 48.36   | 10.70  | 9.49        | 0.45    | 235.30    | 25.44     |
| 2022-02-23 | 14:35:00 | -22.15      | -51.50    | -112.61  | 273.00  | 37.02       | 101.08       | 8.14       | 48.43   | 9.80   | 9.49        | 0.56    | 237.10    | 26.17     |
| 2022-02-23 | 14:36:00 | -19.05      | -45.25    | -107.63  | 279.75  | 35.38       | 99.65        | 8.01       | 47.89   | 10.50  | 9.24        | 0.54    | 230.10    | 25.12     |
| 2022-02-23 | 14:37:00 | -23.15      | -51.25    | -114.56  | 232.69  | 35.74       | 99.65        | 7.94       | 47.47   | 10.00  | 9.24        | 0.27    | 224.50    | 25.49     |
| 2022-02-23 | 14:38:00 | -17.30      | -47.13    | -106.13  | 260.31  | 36.00       | 101.22       | 7.96       | 47.50   | 10.60  | 9.51        | 0.49    | 223.10    | 25.49     |
| 2022-02-23 | 14:39:00 | -16.00      | -42.38    | -103.69  | 281.81  | 37.04       | 103.90       | 8.03       | 47.63   | 10.30  | 9.51        | 0.31    | 227.70    | 26.36     |
| 2022-02-23 | 14:40:00 | -12.85      | -38.88    | -94.54   | 295.19  | 36.29       | 102.31       | 8.06       | 47.94   | 11.30  | 9.51        | 0.29    | 228.80    | 26.28     |
| 2022-02-23 | 14:41:00 | -22.80      | -53.00    | -114.86  | 276.75  | 36.30       | 102.31       | 8.18       | 48.41   | 11.00  | 9.51        | 0.57    | 239.20    | 25.44     |
| 2022-02-23 | 14:42:00 | -13.20      | -40.88    | -98.59   | 295.19  | 35.57       | 102.31       | 8.23       | 48.71   | 10.90  | 9.30        | 0.51    | 243.50    | 25.36     |
| 2022-02-23 | 14:43:00 | -29.75      | -59.38    | -127.35  | 258.13  | 36.17       | 102.31       | 8.22       | 48.77   | 10.70  | 9.30        | 0.54    | 244.60    | 25.15     |
| 2022-02-23 | 14:44:00 | -19.35      | -50.50    | -108.94  | 277.44  | 35.74       | 102.31       | 8.22       | 48.80   | 10.70  | 9.30        | 0.55    | 246.20    | 25.67     |
| 2022-02-23 | 14:45:00 | -31.45      | -67.00    | -129.98  | 226.13  | 35.89       | 100.21       | 8.08       | 48.09   | 10.70  | 9.08        | 0.45    | 236.40    | 25.65     |
| 2022-02-23 | 14:46:00 | -21.65      | -52.50    | -111.49  | 255.75  | 36.77       | 100.21       | 8.07       | 48.10   | 10.70  | 9.36        | 0.39    | 234.70    | 25.94     |
| 2022-02-23 | 14:47:00 | -25.60      | -61.88    | -118.46  | 245.19  | 36.03       | 104.52       | 8.07       | 47.95   | 11.00  | 9.36        | 0.47    | 234.70    | 25.99     |
| 2022-02-23 | 14:48:00 | -14.15      | -42.63    | -98.93   | 288.75  | 35.97       | 105.87       | 8.14       | 48.26   | 10.80  | 9.36        | 0.22    | 239.00    | 26.38     |
| 2022-02-23 | 14:49:00 | -11.55      | -36.88    | -95.63   | 303.06  | 36.22       | 105.87       | 8.18       | 48.19   | 11.60  | 9.36        | 0.39    | 241.80    | 26.09     |
| 2022-02-23 | 14:50:00 | -17.35      | -41.13    | -104.06  | 286.69  | 35.24       | 105.87       | 8.22       | 48.48   | 10.10  | 9.36        | 0.41    | 246.10    | 26.57     |
| 2022-02-23 | 14:51:00 | -10.65      | -35.13    | -96.38   | 306.31  | 35.95       | 105.87       | 8.23       | 48.73   | 11.10  | 9.36        | 0.47    | 246.10    | 25.88     |
| 2022-02-23 | 14:52:00 | -19.65      | -49.50    | -110.40  | 273.13  | 36.40       | 105.87       | 8.55       | 48.87   | 9.80   | 9.36        | 0.50    | 249.20    | 26.43     |
| Max        |          | -8.80       | -34.00    | -92.03   | 308.56  | 41.04       | 108.46       | 8.91       | 49.30   | 11.60  | 9.51        | 0.69    | 259.70    | 26.57     |
| Min        |          | -34.85      | -69.13    | -132.49  | 226.13  | 32.94       | 99.65        | 7.91       | 47.47   | 9.70   | 8.90        | 0.19    | 221.30    | 25.02     |
| Average    |          | -18.24      | -46.88    | -107.22  | 274.94  | 35.36       | 103.88       | 8.24       | 48.41   | 10.59  | 9.21        | 0.48    | 241.05    | 25.94     |
| Variance   |          | 40.36       | 79.13     | 115.98   | 421.58  | 2.59        | 4.35         | 0.05       | 0.19    | 0.20   | 0.04        | 0.02    | 90.45     | 0.23      |

| \$Date     | \$Time   | Incinerator<br>mmH2O | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O  | BH dP<br>mmH2O | CO<br>PPM | HCl<br>PPM | CO2<br>% | H2O<br>% | THC<br>PPM | Main O2<br>AT-261A-NEW<br>% | Opacity<br>AT-263<br>% | SO2<br>PPM | PAC<br>SC-PAC-FT |
|------------|----------|----------------------|--------------------|--------------------|----------------|-----------|------------|----------|----------|------------|-----------------------------|------------------------|------------|------------------|
| 2022-02-23 | 15:10:00 | PT-242A<br>-17.75    | PT-249<br>-49.00   | PDT-615<br>-106.31 | 282.31         | 33.10     | 104.82     | 8.43     | 48.29    | 9.80       | 9.04                        | 0.60                   | 248.00     | 26.09            |
| 2022-02-23 | 15:11:00 | -21.40               | -48.63             | -113.63            | 232.50         | 32.28     | 104.82     | 8.09     | 48.07    | 9.80       | 9.04                        | 0.39                   | 244.90     | 25.33            |
| 2022-02-23 | 15:12:00 | -16.40               | -47.25             | -105.30            | 261.06         | 33.53     | 107.25     | 8.16     | 48.19    | 10.10      | 9.33                        | 0.41                   | 247.80     | 25.38            |
| 2022-02-23 | 15:13:00 | -15.85               | -44.88             | -103.69            | 283.19         | 34.45     | 107.25     | 8.17     | 48.15    | 9.90       | 9.33                        | 0.56                   | 251.50     | 26.54            |
| 2022-02-23 | 15:14:00 | -10.70               | -36.13             | -93.86             | 295.25         | 34.45     | 109.39     | 8.20     | 48.37    | 10.40      | 9.33                        | 0.35                   | 255.70     | 25.38            |
| 2022-02-23 | 15:15:00 | -23.85               | -55.25             | -119.66            | 259.88         | 33.59     | 111.03     | 8.91     | 48.69    | 10.40      | 9.03                        | 0.47                   | 270.00     | 25.91            |
| 2022-02-23 | 15:16:00 | -12.25               | -39.00             | -97.20             | 298.56         | 31.73     | 111.03     | 9.25     | 48.98    | 10.50      | 9.03                        | 0.55                   | 278.40     | 25.94            |
| 2022-02-23 | 15:17:00 | -30.20               | -62.38             | -128.55            | 241.69         | 32.12     | 109.69     | 9.31     | 49.22    | 11.10      | 8.75                        | 0.59                   | 285.30     | 25.33            |
| 2022-02-23 | 15:18:00 | -15.75               | -42.38             | -105.45            | 276.13         | 32.24     | 110.76     | 9.13     | 49.33    | 9.50       | 8.75                        | 0.55                   | 291.70     | 25.52            |
| 2022-02-23 | 15:19:00 | -25.75               | -58.00             | -114.30            | 251.25         | 31.15     | 110.76     | 9.00     | 48.94    | 9.90       | 8.75                        | 0.57                   | 281.50     | 25.62            |
| 2022-02-23 | 15:20:00 | -12.90               | -42.38             | -104.85            | 256.38         | 31.77     | 110.76     | 9.20     | 48.76    | 9.30       | 8.97                        | 0.47                   | 273.20     | 25.62            |
| 2022-02-23 | 15:21:00 | -14.15               | -41.50             | -102.56            | 267.50         | 31.27     | 110.76     | 8.93     | 48.71    | 9.60       | 8.97                        | 0.56                   | 273.20     | 25.91            |
| 2022-02-23 | 15:22:00 | -9.25                | -32.75             | -94.50             | 284.25         | 30.98     | 112.47     | 8.98     | 48.92    | 9.40       | 8.97                        | 0.20                   | 277.50     | 25.23            |
| 2022-02-23 | 15:23:00 | -8.95                | -36.13             | -90.34             | 299.63         | 30.73     | 114.99     | 9.33     | 48.92    | 10.90      | 8.97                        | 0.44                   | 285.90     | 25.70            |
| 2022-02-23 | 15:24:00 | -10.90               | -39.75             | -98.14             | 283.13         | 30.24     | 114.99     | 9.46     | 49.38    | 8.90       | 8.72                        | 0.41                   | 296.20     | 25.41            |
| 2022-02-23 | 15:25:00 | -8.80                | -38.25             | -95.18             | 300.81         | 29.59     | 113.60     | 9.46     | 49.36    | 9.90       | 8.72                        | 0.35                   | 295.90     | 26.49            |
| 2022-02-23 | 15:26:00 | -15.80               | -45.25             | -107.18            | 271.88         | 29.59     | 113.60     | 9.48     | 49.46    | 9.00       | 8.72                        | 0.51                   | 294.40     | 26.57            |
| 2022-02-23 | 15:27:00 | -13.35               | -42.25             | -100.84            | 279.31         | 29.74     | 113.60     | 9.09     | 49.40    | 9.00       | 8.72                        | 0.64                   | 286.70     | 25.59            |
| 2022-02-23 | 15:28:00 | -20.80               | -50.38             | -111.19            | 252.06         | 30.29     | 111.77     | 8.92     | 48.94    | 8.80       | 8.72                        | 0.35                   | 274.60     | 26.38            |
| 2022-02-23 | 15:29:00 | -13.70               | -43.63             | -101.51            | 261.19         | 30.46     | 112.49     | 8.91     | 48.94    | 9.00       | 8.96                        | 0.35                   | 270.40     | 26.41            |
| 2022-02-23 | 15:30:00 | -13.30               | -40.25             | -102.90            | 281.50         | 28.28     | 112.49     | 8.90     | 48.69    | 9.00       | 8.96                        | 0.54                   | 268.90     | 25.23            |
| 2022-02-23 | 15:31:00 | -10.40               | -37.63             | -98.64             | 300.38         | 27.90     | 115.68     | 9.22     | 48.92    | 9.40       | 8.96                        | 0.26                   | 270.70     | 25.25            |
| 2022-02-23 | 15:32:00 | -30.45               | -67.50             | -129.15            | 239.31         | 29.66     | 116.99     | 9.34     | 49.35    | 9.40       | 8.96                        | 0.61                   | 278.60     | 26.46            |
| 2022-02-23 | 15:33:00 | -10.95               | -36.38             | -95.36             | 296.06         | 29.89     | 116.99     | 9.39     | 49.54    | 9.20       | 8.96                        | 0.50                   | 285.10     | 25.44            |
| 2022-02-23 | 15:34:00 | -26.60               | -63.25             | -121.91            | 241.25         | 29.85     | 116.99     | 9.32     | 49.51    | 9.40       | 8.70                        | 0.47                   | 277.80     | 26.54            |
| 2022-02-23 | 15:35:00 | -13.45               | -42.88             | -101.85            | 271.25         | 29.29     | 116.99     | 9.03     | 49.57    | 8.70       | 8.70                        | 0.47                   | 274.20     | 26.46            |
| 2022-02-23 | 15:36:00 | -17.05               | -43.25             | -102.08            | 288.06         | 29.79     | 115.73     | 8.96     | 49.14    | 9.10       | 8.70                        | 0.57                   | 266.80     | 26.46            |
| 2022-02-23 | 15:37:00 | -14.95               | -45.63             | -105.30            | 253.25         | 30.33     | 118.22     | 8.92     | 48.98    | 8.70       | 8.97                        | 0.29                   | 258.10     | 25.20            |
| 2022-02-23 | 15:38:00 | -12.90               | -42.25             | -101.78            | 267.13         | 30.14     | 119.44     | 8.58     | 48.70    | 9.10       | 8.97                        | 0.41                   | 252.80     | 26.25            |
| 2022-02-23 | 15:39:00 | -10.25               | -34.50             | -95.33             | 286.00         | 29.96     | 119.44     | 8.29     | 48.65    | 8.50       | 8.97                        | 0.19                   | 248.40     | 25.38            |
| 2022-02-23 | 15:40:00 | -8.35                | -36.25             | -90.49             | 297.56         | 30.15     | 119.44     | 8.28     | 48.76    | 9.70       | 8.97                        | 0.21                   | 248.40     | 25.15            |
| 2022-02-23 | 15:41:00 | -13.10               | -42.00             | -98.81             | 282.88         | 30.00     | 119.44     | 8.93     | 49.21    | 8.70       | 8.97                        | 0.37                   | 257.30     | 26.46            |
| 2022-02-23 | 15:42:00 | -11.20               | -39.25             | -92.55             | 299.63         | 29.18     | 118.41     | 8.99     | 49.31    | 9.70       | 8.97                        | 0.41                   | 259.80     | 25.20            |
| 2022-02-23 | 15:43:00 | -19.15               | -49.88             | -108.19            | 271.50         | 30.78     | 118.41     | 9.04     | 49.49    | 9.10       | 8.97                        | 0.46                   | 261.30     | 25.25            |
| 2022-02-23 | 15:44:00 | -15.30               | -46.25             | -103.05            | 280.19         | 32.19     | 116.94     | 8.70     | 49.37    | 9.00       | 8.76                        | 0.47                   | 259.60     | 25.36            |
| 2022-02-23 | 15:45:00 | -20.30               | -54.38             | -111.68            | 249.63         | 30.99     | 115.38     | 8.31     | 48.89    | 9.00       | 8.76                        | 0.39                   | 250.40     | 25.94            |
| 2022-02-23 | 15:46:00 | -17.75               | -46.25             | -104.33            | 260.81         | 29.77     | 115.38     | 8.27     | 48.79    | 9.30       | 9.06                        | 0.37                   | 243.80     | 25.23            |
| 2022-02-23 | 15:47:00 | -19.95               | -43.25             | -114.23            | 264.88         | 31.52     | 115.38     | 8.22     | 48.67    | 9.50       | 9.28                        | 0.27                   | 239.60     | 26.38            |
| 2022-02-23 | 15:48:00 | -8.25                | -33.63             | -92.59             | 289.13         | 32.38     | 115.38     | 8.25     | 48.88    | 10.10      | 9.28                        | 0.25                   | 239.60     | 25.86            |
| 2022-02-23 | 15:49:00 | -28.35               | -60.88             | -129.30            | 238.81         | 32.65     | 115.38     | 8.58     | 49.05    | 10.40      | 9.28                        | 0.39                   | 245.90     | 26.36            |
| 2022-02-23 | 15:50:00 | -10.25               | -38.25             | -92.89             | 291.44         | 31.56     | 115.38     | 8.90     | 49.11    | 9.80       | 8.99                        | 0.31                   | 251.40     | 25.75            |
| 2022-02-23 | 15:51:00 | -13.35               | -48.75             | -107.93            | 263.88         | 31.06     | 115.38     | 8.88     | 49.04    | 10.10      | 8.99                        | 0.45                   | 250.00     | 25.41            |
| 2022-02-23 | 15:52:00 | -16.40               | -45.88             | -108.41            | 276.31         | 31.11     | 115.51     | 8.91     | 49.21    | 9.40       | 8.99                        | 0.47                   | 252.00     | 25.88            |
| 2022-02-23 | 15:53:00 | -15.80               | -44.13             | -104.70            | 284.56         | 31.42     | 113.75     | 8.54     | 48.81    | 9.80       | 8.99                        | 0.54                   | 245.40     | 26.54            |
| 2022-02-23 | 15:54:00 | -19.10               | -47.75             | -107.33            | 252.56         | 33.56     | 113.79     | 8.17     | 48.50    | 9.10       | 9.25                        | 0.39                   | 235.40     | 25.75            |
| 2022-02-23 | 15:55:00 | -17.50               | -47.38             | -102.34            | 263.94         | 34.71     | 113.79     | 8.10     | 48.29    | 9.80       | 9.25                        | 0.42                   | 230.80     | 25.31            |
| 2022-02-23 | 15:56:00 | -11.80               | -38.63             | -96.49             | 287.38         | 34.81     | 113.79     | 8.10     | 48.30    | 9.50       | 9.47                        | 0.16                   | 229.60     | 25.31            |
| 2022-02-23 | 15:57:00 | -11.20               | -35.50             | -93.94             | 303.69         | 34.20     | 115.28     | 8.24     | 48.48    | 10.30      | 9.47                        | 0.24                   | 238.30     | 26.38            |
| 2022-02-23 | 15:58:00 | -16.55               | -45.88             | -102.45            | 287.19         | 33.01     | 115.28     | 8.58     | 48.97    | 9.60       | 9.20                        | 0.39                   | 244.90     | 26.43            |
| 2022-02-23 | 15:59:00 | -10.30               | -40.25             | -94.16             | 303.19         | 32.10     | 114.02     | 8.61     | 48.88    | 10.60      | 8.99                        | 0.35                   | 248.80     | 26.51            |
| 2022-02-23 | 16:00:00 | -20.55               | -51.00             | -114.30            | 274.31         | 33.05     | 114.02     | 8.65     | 48.98    | 9.80       | 8.99                        | 0.54                   | 250.20     | 26.41            |
| 2022-02-23 | 16:01:00 | -18.15               | -49.50             | -107.59            | 283.38         | 32.96     | 112.45     | 8.60     | 48.76    | 9.70       | 8.99                        | 0.51                   | 249.00     | 25.25            |
| 2022-02-23 | 16:02:00 | -22.20               | -53.00             | -115.99            | 249.31         | 32.67     | 112.45     | 8.20     | 48.37    | 9.40       | 8.99                        | 0.41                   | 240.30     | 25.80            |
| 2022-02-23 | 16:03:00 | -15.90               | -45.38             | -104.74            | 259.00         | 33.67     | 113.73     | 8.17     | 48.38    | 9.40       | 9.23                        | 0.41                   | 235.80     | 25.78            |
| 2022-02-23 | 16:04:00 | -29.40               | -63.50             | -128.25            | 241.13         | 32.32     | 113.73     | 8.13     | 48.11    | 9.90       | 9.23                        | 0.50                   | 233.30     | 26.51            |
| 2022-02-23 | 16:05:00 | -11.55               | -39.25             | -94.54             | 292.94         | 32.76     | 115.64     | 8.21     | 48.41    | 10.40      | 9.23                        | 0.32                   | 238.50     | 25.94            |
| 2022-02-23 | 16:06:00 | -27.05               | -60.38             | -124.13            | 242.50         | 33.41     | 115.64     | 8.65     | 49.11    | 11.00      | 9.23                        | 0.36                   | 251.00     | 25.44            |
| 2022-02-23 | 16:07:00 | -9.35                | -36.50             | -95.29             | 288.25         | 32.54     | 116.64     | 9.04     | 49.41    | 9.70       | 8.98                        | 0.27                   | 261.20     | 26.30            |
| 2022-02-23 | 16:08:00 | -7.80                | -34.63             | -91.58             | 306.38         | 31.35     | 115.50     | 9.38     | 49.50    | 10.50      | 8.98                        | 0.45                   | 266.50     | 25.57            |
| 2022-02-23 | 16:09:00 | -14.60               | -41.63             | -105.34            | 279.00         | 30.54     | 115.50     | 9.42     | 49.54    | 9.30       | 8.72                        | 0.45                   | 272.20     | 26.54            |
| 2022-02-23 | 16:10:00 | -11.70               | -36.00             | -100.24            | 288.06         | 30.29     | 115.50     | 9.33     | 49.16    | 9.80       | 8.72                        | 0.50                   | 266.00     | 25.10            |
| Max        |          | -7.80                | -32.75             | -90.34             | 306.38         | 34.81     | 119.44     | 9.48     | 49.57    | 11.10      | 9.47                        | 0.64                   | 296.20     | 26.57            |
| Min        |          | -30.45               | -67.50             | -129.30            | 238.81         | 27.90     | 104.82     | 8.09     | 48.07    | 8.50       | 8.70                        | 0.16                   | 229.60     | 25.10            |
| Average    |          | -15.89               | -44.88             | -104.61            | 274.27         | 31.49     | 114.12     | 8.77     | 48.91    | 9.62       | 9.00                        | 0.42                   | 260.01     | 25.83            |
| Variance   |          | 34.14                | 67.33              | 103.22             | 366.12         | 2.71      | 10.68      | 0.20     | 0.17     | 0.36       | 0.04                        | 0.01                   | 318.11     | 0.25             |

| \$Date     | \$Time   | Rich  |         | Emulsion |        | Lean    |        | Alkaline |        | TDU Flow |            | Leachate      |        | Primary |        | Secondary |        | Stack Velocity |      | Stack Flow |         | Primary   |           | Secondary |           | Quench    |           | SDA       |           | Stack     |           |       |       |
|------------|----------|-------|---------|----------|--------|---------|--------|----------|--------|----------|------------|---------------|--------|---------|--------|-----------|--------|----------------|------|------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|
|            |          | LPM   | LPM     | LPM      | LPM    | LPM     | SCFM   | LPM      | SCFM   | LPM      | LPM        | SCFM          | SCFM   | LPM     | m3/h   | m3/h      | m3/h   | m3/h           | m/s  | m3/s       | Ref Dry | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C |       |       |
| 2022-04-07 | 10:37:00 | 38.88 | FT-219C | FT-223   | PV-207 | FT-313B | FT-313 | PV-211   | PV-236 | PV-209   | FT-260-VEL | FT-260-REFDRY | TE-240 | TE-241  | TE-203 | TE-204    | TE-238 | 38.88          | 9.12 | 160.25     | 188.64  | 4.09      | 245.40    | 22.35     | 18906     | 11809     | 30.77     | 72653     | 1348.3    | 1097.1    | 453.9     | 179.5 | 175.2 |
| 2022-04-07 | 10:38:00 | 39.15 | 9.30    | 159.77   | 190.26 | 4.12    | 246.98 | 22.35    | 18419  | 11725    | 30.67      | 72890         | 1351.1 | 1098.1  | 454.1  | 180.5     | 175.2  | 39.15          | 9.30 | 159.77     | 190.26  | 4.12      | 246.98    | 22.35     | 18419     | 11725     | 30.67     | 72890     | 1351.1    | 1098.1    | 454.1     | 180.5 | 175.2 |
| 2022-04-07 | 10:39:00 | 39.33 | 9.37    | 158.11   | 190.04 | 4.19    | 251.18 | 23.36    | 17066  | 11705    | 30.54      | 74543         | 1354.1 | 1101.3  | 454.4  | 181.5     | 175.2  | 39.33          | 9.37 | 158.11     | 190.04  | 4.19      | 251.18    | 23.36     | 17066     | 11705     | 30.54     | 74543     | 1354.1    | 1101.3    | 454.4     | 181.5 | 175.2 |
| 2022-04-07 | 10:40:00 | 39.56 | 8.83    | 158.25   | 190.04 | 4.23    | 254.03 | 22.28    | 18225  | 11601    | 30.54      | 74119         | 1362.1 | 1106.8  | 454.5  | 182.0     | 175.2  | 39.56          | 8.83 | 158.25     | 190.04  | 4.23      | 254.03    | 22.28     | 18225     | 11601     | 30.54     | 74119     | 1362.1    | 1106.8    | 454.5     | 182.0 | 175.2 |
| 2022-04-07 | 10:41:00 | 39.39 | 9.17    | 158.92   | 188.55 | 4.33    | 260.03 | 22.28    | 18844  | 11809    | 31.11      | 75427         | 1362.9 | 1113.3  | 453.9  | 182.5     | 175.2  | 39.39          | 9.17 | 158.92     | 188.55  | 4.33      | 260.03    | 22.28     | 18844     | 11809     | 31.11     | 75427     | 1362.9    | 1113.3    | 453.9     | 182.5 | 175.2 |
| 2022-04-07 | 10:42:00 | 39.14 | 9.04    | 156.93   | 188.87 | 4.33    | 259.80 | 22.28    | 18269  | 11730    | 30.64      | 74225         | 1367.1 | 1113.3  | 454.0  | 183.0     | 176.2  | 39.14          | 9.04 | 156.93     | 188.87  | 4.33      | 259.80    | 22.28     | 18269     | 11730     | 30.64     | 74225     | 1367.1    | 1113.3    | 454.0     | 183.0 | 176.2 |
| 2022-04-07 | 10:43:00 | 38.94 | 8.48    | 156.17   | 187.92 | 4.36    | 261.53 | 22.28    | 19000  | 11820    | 31.10      | 75304         | 1369.2 | 1117.3  | 454.1  | 183.5     | 176.2  | 38.94          | 8.48 | 156.17     | 187.92  | 4.36      | 261.53    | 22.28     | 19000     | 11820     | 31.10     | 75304     | 1369.2    | 1117.3    | 454.1     | 183.5 | 176.2 |
| 2022-04-07 | 10:44:00 | 39.30 | 9.01    | 157.16   | 188.78 | 4.42    | 265.20 | 22.38    | 18100  | 11612    | 30.97      | 74786         | 1374.1 | 1120.6  | 453.6  | 184.0     | 176.2  | 39.30          | 9.01 | 157.16     | 188.78  | 4.42      | 265.20    | 22.38     | 18100     | 11612     | 30.97     | 74786     | 1374.1    | 1120.6    | 453.6     | 184.0 | 176.2 |
| 2022-04-07 | 10:45:00 | 39.51 | 9.59    | 156.17   | 189.72 | 4.45    | 266.78 | 23.33    | 19044  | 11747    | 33.84      | 81497         | 1378.3 | 1125.9  | 454.2  | 185.0     | 178.4  | 39.51          | 9.59 | 156.17     | 189.72  | 4.45      | 266.78    | 23.33     | 19044     | 11747     | 33.84     | 81497     | 1378.3    | 1125.9    | 454.2     | 185.0 | 178.4 |
| 2022-04-07 | 10:46:00 | 39.36 | 9.41    | 155.75   | 188.60 | 4.52    | 270.98 | 22.50    | 18244  | 11646    | 30.62      | 73356         | 1377.4 | 1125.8  | 454.0  | 185.5     | 177.3  | 39.36          | 9.41 | 155.75     | 188.60  | 4.52      | 270.98    | 22.50     | 18244     | 11646     | 30.62     | 73356     | 1377.4    | 1125.8    | 454.0     | 185.5 | 177.3 |
| 2022-04-07 | 10:47:00 | 39.08 | 8.62    | 156.03   | 188.19 | 4.58    | 274.58 | 22.50    | 18638  | 11579    | 33.70      | 80999         | 1382.4 | 1128.2  | 453.8  | 186.0     | 177.3  | 39.08          | 8.62 | 156.03     | 188.19  | 4.58      | 274.58    | 22.50     | 18638     | 11579     | 33.70     | 80999     | 1382.4    | 1128.2    | 453.8     | 186.0 | 177.3 |
| 2022-04-07 | 10:48:00 | 39.23 | 8.85    | 156.07   | 189.27 | 4.57    | 273.98 | 22.50    | 18331  | 11635    | 31.58      | 75899         | 1379.1 | 1128.2  | 453.8  | 186.5     | 177.3  | 39.23          | 8.85 | 156.07     | 189.27  | 4.57      | 273.98    | 22.50     | 18331     | 11635     | 31.58     | 75899     | 1379.1    | 1128.2    | 453.8     | 186.5 | 177.3 |
| 2022-04-07 | 10:49:00 | 39.11 | 8.58    | 155.45   | 187.74 | 4.61    | 276.38 | 22.50    | 18094  | 11629    | 30.74      | 74232         | 1381.8 | 1131.2  | 454.6  | 187.0     | 178.4  | 39.11          | 8.58 | 155.45     | 187.74  | 4.61      | 276.38    | 22.50     | 18094     | 11629     | 30.74     | 74232     | 1381.8    | 1131.2    | 454.6     | 187.0 | 178.4 |
| 2022-04-07 | 10:50:00 | 38.85 | 8.28    | 156.41   | 188.06 | 4.61    | 276.45 | 22.50    | 18319  | 11601    | 30.91      | 74334         | 1378.7 | 1129.7  | 454.2  | 188.0     | 178.4  | 38.85          | 8.28 | 156.41     | 188.06  | 4.61      | 276.45    | 22.50     | 18319     | 11601     | 30.91     | 74334     | 1378.7    | 1129.7    | 454.2     | 188.0 | 178.4 |
| 2022-04-07 | 10:51:00 | 38.69 | 8.85    | 156.07   | 188.01 | 4.64    | 278.63 | 22.50    | 18213  | 11624    | 30.29      | 72834         | 1382.7 | 1134.4  | 454.6  | 188.0     | 178.4  | 38.69          | 8.85 | 156.07     | 188.01  | 4.64      | 278.63    | 22.50     | 18213     | 11624     | 30.29     | 72834     | 1382.7    | 1134.4    | 454.6     | 188.0 | 178.4 |
| 2022-04-07 | 10:52:00 | 39.63 | 9.38    | 155.41   | 190.35 | 4.69    | 281.25 | 22.50    | 18238  | 11635    | 30.77      | 73534         | 1383.7 | 1134.1  | 454.7  | 189.0     | 178.4  | 39.63          | 9.38 | 155.41     | 190.35  | 4.69      | 281.25    | 22.50     | 18238     | 11635     | 30.77     | 73534     | 1383.7    | 1134.1    | 454.7     | 189.0 | 178.4 |
| 2022-04-07 | 10:53:00 | 39.41 | 9.27    | 156.07   | 190.17 | 5.13    | 307.65 | 22.50    | 17844  | 11472    | 30.33      | 72280         | 1387.4 | 1140.0  | 457.1  | 191.0     | 181.4  | 39.41          | 9.27 | 156.07     | 190.17  | 5.13      | 307.65    | 22.50     | 17844     | 11472     | 30.33     | 72280     | 1387.4    | 1140.0    | 457.1     | 191.0 | 181.4 |
| 2022-04-07 | 10:54:00 | 38.07 | 8.95    | 156.17   | 188.37 | 5.19    | 311.55 | 22.50    | 18256  | 11657    | 30.40      | 72016         | 1389.8 | 1138.0  | 455.2  | 189.5     | 179.4  | 38.07          | 8.95 | 156.17     | 188.37  | 5.19      | 311.55    | 22.50     | 18256     | 11657     | 30.40     | 72016     | 1389.8    | 1138.0    | 455.2     | 189.5 | 179.4 |
| 2022-04-07 | 10:55:00 | 38.27 | 9.19    | 152.85   | 187.92 | 5.21    | 312.45 | 22.50    | 18113  | 11657    | 30.61      | 72669         | 1390.2 | 1138.1  | 455.2  | 190.0     | 180.4  | 38.27          | 9.19 | 152.85     | 187.92  | 5.21      | 312.45    | 22.50     | 18113     | 11657     | 30.61     | 72669     | 1390.2    | 1138.1    | 455.2     | 190.0 | 180.4 |
| 2022-04-07 | 10:56:00 | 38.18 | 9.27    | 155.51   | 188.01 | 5.30    | 317.85 | 22.50    | 18419  | 11899    | 31.44      | 74250         | 1386.4 | 1137.1  | 455.8  | 190.0     | 180.4  | 38.18          | 9.27 | 155.51     | 188.01  | 5.30      | 317.85    | 22.50     | 18419     | 11899     | 31.44     | 74250     | 1386.4    | 1137.1    | 455.8     | 190.0 | 180.4 |
| 2022-04-07 | 10:57:00 | 38.37 | 9.70    | 156.69   | 189.00 | 5.30    | 317.78 | 22.50    | 18081  | 11674    | 30.66      | 72637         | 1385.9 | 1137.5  | 455.9  | 190.5     | 180.4  | 38.37          | 9.70 | 156.69     | 189.00  | 5.30      | 317.78    | 22.50     | 18081     | 11674     | 30.66     | 72637     | 1385.9    | 1137.5    | 455.9     | 190.5 | 180.4 |
| 2022-04-07 | 10:58:00 | 38.21 | 8.68    | 156.54   | 188.19 | 5.34    | 320.10 | 22.50    | 18613  | 11837    | 31.27      | 74613         | 1383.7 | 1137.4  | 456.1  | 190.5     | 181.4  | 38.21          | 8.68 | 156.54     | 188.19  | 5.34      | 320.10    | 22.50     | 18613     | 11837     | 31.27     | 74613     | 1383.7    | 1137.4    | 456.1     | 190.5 | 181.4 |
| 2022-04-07 | 10:59:00 | 38.39 | 9.61    | 157.21   | 189.63 | 5.35    | 321.15 | 22.43    | 18125  | 11517    | 30.12      | 71617         | 1382.9 | 1137.7  | 456.4  | 191.0     | 181.4  | 38.39          | 9.61 | 157.21     | 189.63  | 5.35      | 321.15    | 22.43     | 18125     | 11517     | 30.12     | 71617     | 1382.9    | 1137.7    | 456.4     | 191.0 | 181.4 |
| 2022-04-07 | 11:00:00 | 38.43 | 9.28    | 156.97   | 189.09 | 5.33    | 319.50 | 22.46    | 18938  | 11742    | 31.39      | 74847         | 1386.3 | 1139.6  | 456.8  | 191.0     | 181.4  | 38.43          | 9.28 | 156.97     | 189.09  | 5.33      | 319.50    | 22.46     | 18938     | 11742     | 31.39     | 74847     | 1386.3    | 1139.6    | 456.8     | 191.0 | 181.4 |
| 2022-04-07 | 11:01:00 | 38.54 | 9.72    | 157.02   | 188.87 | 5.41    | 324.75 | 22.46    | 18106  | 11641    | 30.90      | 73584         | 1387.4 | 1140.0  | 457.1  | 191.0     | 181.4  | 38.54          | 9.72 | 157.02     | 188.87  | 5.41      | 324.75    | 22.46     | 18106     | 11641     | 30.90     | 73584     | 1387.4    | 1140.0    | 457.1     | 191.0 | 181.4 |
| 2022-04-07 | 11:02:00 | 37.50 | 8.65    | 156.93   | 188.28 | 5.43    | 325.58 | 22.46    | 18613  | 11430    | 33.32      | 78945         | 1389.3 | 1143.0  | 456.6  | 191.0     | 181.4  | 37.50          | 8.65 | 156.93     | 188.28  | 5.43      | 325.58    | 22.46     | 18613     | 11430     | 33.32     | 78945     | 1389.3    | 1143.0    | 456.6     | 191.0 | 181.4 |
| 2022-04-07 | 11:03:00 | 37.52 | 8.90    | 156.35   | 188.28 | 5.42    | 325.20 | 22.46    | 18038  | 11517    | 30.67      | 72451         | 1382.4 | 1136.8  | 457.6  | 191.0     | 182.4  | 37.52          | 8.90 | 156.35     | 188.28  | 5.42      | 325.20    | 22.46     | 18038     | 11517     | 30.67     | 72451     | 1382.4    | 1136.8    | 457.6     | 191.0 | 182.4 |
| 2022-04-07 | 11:04:00 | 37.56 | 9.29    | 157.07   | 188.55 | 5.50    | 330.23 | 22.46    | 18044  | 11511    | 33.27      | 78798         | 1385.7 | 1139.1  | 457.4  | 191.0     | 182.4  | 37.56          | 9.29 | 157.07     | 188.55  | 5.50      | 330.23    | 22.46     | 18044     | 11511     | 33.27     | 78798     | 1385.7    | 1139.1    | 457.4     | 191.0 | 182.4 |
| 2022-04-07 | 11:05:00 | 37.35 | 9.74    | 156.97   | 189.00 | 5.51    | 330.83 | 22.43    | 18288  | 11714    | 30.86      | 73128         | 1380.2 | 1135.9  | 457.6  | 191.0     | 182.4  | 37.35          | 9.74 | 156.97     | 189.00  | 5.51      | 330.83    | 22.43     | 18288     | 11714     | 30.86     | 73128     | 1380.2    | 1135.9    | 457.6     | 191.0 | 182.4 |
| 2022-04-07 | 11:06:00 | 37.58 | 9.11    | 157.07   | 189.41 | 5.57    | 334.20 | 22.54    | 18269  | 11489    | 31.54      | 74927         | 1382.8 | 1136.0  | 457.7  | 191.5     | 182.4  | 37.58          | 9.11 | 157.07     | 189.41  | 5.57      | 334.20    | 22.54     | 18269     | 11489     | 31.54     | 74927     | 1382.8    | 1136.0    | 457.7     | 191.5 | 182.4 |
| 2022-04-07 | 11:07:00 | 37.98 | 9.      |          |        |         |        |          |        |          |            |               |        |         |        |           |        |                |      |            |         |           |           |           |           |           |           |           |           |           |           |       |       |



| \$Date     | Time     | Rich  |      | Emulsion |        | Lean  |        | Alkaline |       | TDU Flow   |         | TDU Flow |       | Leachate |       | Primary |            | Secondary  |        | Stack Velocity |        | Stack Flow |        | Primary |           | Secondary |           | Quench    |           | SDA       |  | Stack |
|------------|----------|-------|------|----------|--------|-------|--------|----------|-------|------------|---------|----------|-------|----------|-------|---------|------------|------------|--------|----------------|--------|------------|--------|---------|-----------|-----------|-----------|-----------|-----------|-----------|--|-------|
|            |          | LPM   | LPM  | LPM      | LPM    | LPM   | SCFM   | SCFM     | LPM   | LPM        | LPM     | m3/h     | m3/h  | m3/h     | m/s   | m/s     | FT-260-REF | FT-260-REF | TE-240 | TE-240         | TE-203 | TE-203     | TE-203 | TE-203  | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C |  |       |
| 2022-04-07 | 13:15:00 | 38.64 | 9.06 | 157.87   | 188.73 | 22.73 | 18.21  | 11584    | 30.98 | FT-260-VEL | 77.991  | 1355.4   | 459.5 | 181.0    | 176.3 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:16:00 | 39.18 | 8.69 | 158.50   | 189.09 | 22.74 | 18.056 | 11567    | 30.81 | FT-260-VEL | 75276   | 1362.7   | 459.2 | 181.5    | 176.3 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:17:00 | 39.50 | 9.24 | 158.73   | 189.99 | 22.69 | 18.281 | 11601    | 30.80 | FT-260-VEL | 74195   | 1364.4   | 459.9 | 182.0    | 176.3 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:18:00 | 39.09 | 8.98 | 157.87   | 190.08 | 22.88 | 18.031 | 11478    | 30.25 | FT-260-VEL | 74195   | 1375.7   | 459.8 | 182.0    | 176.3 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:19:00 | 38.99 | 8.92 | 158.15   | 189.32 | 22.86 | 18.138 | 11674    | 30.92 | FT-260-VEL | 75216   | 1373.7   | 459.1 | 183.0    | 177.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:20:00 | 39.30 | 9.19 | 157.50   | 189.63 | 22.76 | 18.263 | 11669    | 30.85 | FT-260-VEL | 74683   | 1375.6   | 459.1 | 183.0    | 177.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:21:00 | 39.30 | 8.95 | 156.93   | 189.86 | 22.78 | 18.631 | 11629    | 31.47 | FT-260-VEL | 76294   | 1374.7   | 458.7 | 184.0    | 177.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:22:00 | 38.75 | 8.78 | 157.68   | 190.13 | 22.84 | 17.631 | 11641    | 30.71 | FT-260-VEL | 74411   | 1377.4   | 458.8 | 185.0    | 177.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:23:00 | 38.99 | 8.58 | 157.78   | 189.05 | 23.78 | 18.950 | 11663    | 31.37 | FT-260-VEL | 76845   | 1379.1   | 459.1 | 185.5    | 178.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:24:00 | 39.45 | 8.86 | 158.06   | 189.77 | 22.84 | 18.225 | 11483    | 31.10 | FT-260-VEL | 75976   | 1380.2   | 458.3 | 186.0    | 178.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:25:00 | 38.99 | 8.94 | 157.68   | 189.77 | 22.84 | 18.894 | 11702    | 30.23 | FT-260-VEL | 81339   | 1384.9   | 457.9 | 186.5    | 178.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:26:00 | 39.06 | 8.98 | 158.45   | 189.32 | 22.84 | 18.013 | 11680    | 30.83 | FT-260-VEL | 74936   | 1385.6   | 458.7 | 187.5    | 179.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:27:00 | 37.44 | 8.67 | 157.83   | 189.00 | 22.84 | 18.444 | 11644    | 30.48 | FT-260-VEL | 73110   | 1391.8   | 458.4 | 187.5    | 179.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:28:00 | 37.67 | 8.77 | 158.64   | 189.36 | 22.84 | 18.131 | 11607    | 30.83 | FT-260-VEL | 74669   | 1383.4   | 458.0 | 188.0    | 179.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:29:00 | 37.16 | 8.93 | 158.64   | 188.69 | 22.84 | 18.019 | 11444    | 30.75 | FT-260-VEL | 74580   | 1384.9   | 458.0 | 188.0    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:30:00 | 37.38 | 8.57 | 158.40   | 189.68 | 22.84 | 18.188 | 11652    | 30.80 | FT-260-VEL | 74780   | 1379.3   | 458.6 | 188.0    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:31:00 | 37.25 | 8.71 | 157.74   | 188.64 | 22.84 | 18.069 | 11523    | 30.10 | FT-260-VEL | 73110   | 1383.4   | 458.6 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:32:00 | 37.59 | 8.79 | 157.02   | 189.54 | 22.84 | 18.375 | 11596    | 31.07 | FT-260-VEL | 75330   | 1380.2   | 457.8 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:33:00 | 37.71 | 8.89 | 158.77   | 189.59 | 22.84 | 17.869 | 11472    | 30.37 | FT-260-VEL | 73299   | 1383.7   | 458.3 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:34:00 | 37.52 | 8.98 | 158.34   | 189.99 | 22.84 | 18.125 | 11629    | 31.09 | FT-260-VEL | 75291   | 1380.3   | 458.5 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:35:00 | 37.46 | 8.53 | 157.68   | 189.99 | 22.84 | 17.750 | 11646    | 30.75 | FT-260-VEL | 74165   | 1385.3   | 458.2 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:36:00 | 37.20 | 8.95 | 157.31   | 189.27 | 22.84 | 18.494 | 11815    | 31.17 | FT-260-VEL | 75210   | 1383.1   | 458.6 | 188.5    | 180.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:37:00 | 37.35 | 8.95 | 156.88   | 189.45 | 22.84 | 17.888 | 11539    | 30.48 | FT-260-VEL | 72915   | 1386.6   | 458.5 | 189.0    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:38:00 | 37.41 | 8.78 | 157.68   | 188.46 | 22.84 | 18.600 | 11697    | 31.17 | FT-260-VEL | 74842   | 1386.2   | 458.5 | 189.0    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:39:00 | 37.29 | 8.89 | 157.12   | 189.05 | 22.84 | 17.981 | 11567    | 31.10 | FT-260-VEL | 74603   | 1387.2   | 459.1 | 189.5    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:40:00 | 37.61 | 8.63 | 157.21   | 188.87 | 22.84 | 18.813 | 11770    | 31.03 | FT-260-VEL | 74927   | 1383.5   | 459.0 | 190.0    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:41:00 | 37.74 | 8.63 | 158.30   | 189.45 | 22.84 | 17.969 | 11629    | 30.61 | FT-260-VEL | 73270   | 1387.1   | 458.8 | 190.5    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:42:00 | 37.13 | 8.72 | 157.64   | 188.91 | 22.84 | 18.125 | 11629    | 31.09 | FT-260-VEL | 75291   | 1380.3   | 458.5 | 191.0    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:43:00 | 37.61 | 9.18 | 158.49   | 189.63 | 22.84 | 17.863 | 11506    | 31.05 | FT-260-VEL | 74107   | 1390.6   | 459.2 | 191.0    | 181.4 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:44:00 | 36.99 | 8.91 | 157.55   | 188.37 | 22.84 | 17.606 | 11498    | 33.10 | FT-260-VEL | 78992   | 1393.1   | 459.2 | 191.0    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:45:00 | 37.50 | 8.87 | 157.64   | 188.78 | 22.84 | 18.000 | 11579    | 30.87 | FT-260-VEL | 73955   | 1387.1   | 459.1 | 191.0    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:46:00 | 37.37 | 8.81 | 157.64   | 190.08 | 22.84 | 17.825 | 11562    | 30.08 | FT-260-VEL | 71683   | 1391.6   | 458.7 | 191.0    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:47:00 | 37.43 | 9.12 | 156.54   | 190.31 | 22.84 | 18.200 | 11657    | 30.80 | FT-260-VEL | 73457   | 1384.3   | 459.3 | 191.0    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:48:00 | 37.23 | 8.58 | 156.93   | 189.05 | 22.84 | 18.075 | 11449    | 30.22 | FT-260-VEL | 72305   | 1384.1   | 459.4 | 190.5    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:49:00 | 37.26 | 9.01 | 156.78   | 188.55 | 22.84 | 18.288 | 11523    | 31.44 | FT-260-VEL | 75787   | 1375.6   | 459.6 | 189.5    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:50:00 | 37.16 | 8.79 | 157.87   | 189.59 | 22.84 | 17.888 | 11612    | 30.89 | FT-260-VEL | 74586   | 1371.8   | 459.6 | 188.5    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:51:00 | 37.08 | 8.92 | 158.30   | 189.23 | 22.84 | 18.156 | 11714    | 30.95 | FT-260-VEL | 74733   | 1363.2   | 459.7 | 187.5    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:52:00 | 37.59 | 8.86 | 158.02   | 190.85 | 22.84 | 17.938 | 11478    | 31.08 | FT-260-VEL | 74633   | 1385.6   | 459.2 | 186.5    | 181.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:53:00 | 37.85 | 9.08 | 157.78   | 188.37 | 22.84 | 18.719 | 11584    | 31.72 | FT-260-VEL | 76197   | 1359.4   | 459.4 | 186.5    | 181.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:54:00 | 39.42 | 8.75 | 157.59   | 189.54 | 22.84 | 18.175 | 11607    | 30.93 | FT-260-VEL | 74334   | 1365.2   | 460.1 | 185.0    | 180.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:55:00 | 38.64 | 8.63 | 158.06   | 188.87 | 22.91 | 18.881 | 11764    | 31.59 | FT-260-VEL | 76321   | 1366.3   | 459.6 | 184.5    | 180.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:56:00 | 39.09 | 8.58 | 157.55   | 189.77 | 22.91 | 18.231 | 11590    | 30.86 | FT-260-VEL | 74733   | 1364.8   | 459.7 | 184.5    | 180.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:57:00 | 38.61 | 8.96 | 157.40   | 188.19 | 22.91 | 18.738 | 11708    | 32.76 | FT-260-VEL | 79845   | 1385.3   | 460.1 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:58:00 | 39.98 | 8.86 | 157.50   | 188.06 | 22.91 | 18.119 | 11500    | 31.05 | FT-260-VEL | 75531   | 1362.7   | 459.6 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 13:59:00 | 39.92 | 9.04 | 158.06   | 188.33 | 22.91 | 18.363 | 11702    | 33.70 | FT-260-VEL | 81666   | 1369.2   | 459.4 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:00:00 | 40.34 | 8.98 | 158.45   | 189.90 | 22.91 | 18.088 | 11590    | 31.26 | FT-260-VEL | 75409   | 1369.6   | 459.1 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:01:00 | 40.17 | 8.78 | 158.06   | 190.17 | 22.91 | 17.888 | 11517    | 30.45 | FT-260-VEL | 73418   | 1378.4   | 459.2 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:02:00 | 40.05 | 9.19 | 156.60   | 190.80 | 22.91 | 18.088 | 11594    | 31.54 | FT-260-VEL | 76007   | 1374.7   | 459.0 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:03:00 | 40.08 | 8.96 | 157.74   | 188.82 | 22.91 | 17.900 | 11584    | 30.47 | FT-260-VEL | 73337   | 1378.4   | 459.1 | 184.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:04:00 | 40.17 | 8.86 | 157.68   | 189.09 | 22.91 | 18.200 | 11714    | 31.38 | FT-260-VEL | 75243   | 1374.3   | 459.0 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:05:00 | 39.78 | 9.05 | 157.50   | 188.96 | 22.91 | 17.950 | 11472    | 30.65 | FT-260-VEL | 73365   | 1375.9   | 459.1 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:06:00 | 40.11 | 8.84 | 157.02   | 189.81 | 22.91 | 18.294 | 11545    | 30.79 | FT-260-VEL | 74473   | 1372.4   | 459.0 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:07:00 | 40.11 | 8.97 | 156.60   | 189.27 | 22.91 | 18.013 | 11556    | 30.39 | FT-260-VEL | 73457   | 1375.9   | 458.4 | 185.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:08:00 | 40.38 | 9.03 | 157.68   | 189.68 | 22.91 | 18.288 | 11562    | 31.09 | FT-260-VEL | 75670   | 1374.9   | 458.4 | 185.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:09:00 | 40.16 | 9.34 | 157.25   | 190.13 | 22.91 | 17.900 | 11405    | 31.01 | FT-260-VEL | 74739   | 1379.9   | 458.3 | 185.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:10:00 | 39.77 | 8.84 | 157.16   | 188.28 | 22.91 | 18.713 | 11742    | 30.68 | FT-260-VEL | 73678   | 1379.3   | 458.0 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:11:00 | 40.13 | 8.89 | 156.88   | 189.68 | 22.91 | 18.094 | 11461    | 30.22 | FT-260-VEL | 72229   | 1377.8   | 457.8 | 185.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:12:00 | 39.87 | 8.91 | 157.31   | 188.28 | 22.91 | 18.756 | 11573    | 31.65 | FT-260-VEL | 76352   | 1377.9   | 458.1 | 184.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:13:00 | 40.17 | 9.08 | 159.39   | 188.87 | 22.91 | 18.163 | 11635    | 31.16 | FT-260-VEL | 75144   | 1377.2   | 458.0 | 185.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:14:00 | 39.99 | 8.82 | 159.11   | 189.63 | 22.91 | 18.306 | 11758    | 32.54 | FT-260-VEL | 78427   | 1381.2   | 458.1 | 185.5    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| 2022-04-07 | 14:15:00 | 40.14 | 9.28 | 159.05   | 189.95 | 22.91 | 18.144 | 11517    | 30.45 | FT-260-VEL | 73132   | 1381.2   | 457.4 | 186.0    | 179.1 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| Max        |          | 40.38 | 9.34 | 159.39   | 190.85 | 22.93 | 18.950 | 11815    | 33.70 |            | 81666   | 1393.1   | 460.1 | 191.5    | 182.2 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| Min        |          | 36.99 | 8.53 | 156.54   | 188.06 | 22.69 | 17.606 | 11405    | 30.08 |            | 71683   | 1355.4   | 457.4 | 181.0    | 176.3 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| Average    |          | 38.63 | 8.89 | 157.76   | 189.33 | 23.04 | 18.207 | 11595    | 31.15 |            | 75262   | 1377.6   | 458.9 | 186.4    | 179.7 |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |
| Variance   |          | 1.40  | 0.03 | 0.41     | 0.42   | 0.52  | 0.15   | 0.1186   | 0.68  |            | 4659749 | 77.3     | 108.7 | 7.6      | 2.8   |         |            |            |        |                |        |            |        |         |           |           |           |           |           |           |  |       |



| \$Date     | \$Time   | Rich  |      | Emulsion |        | Lean |        | Alkaline |       | TDU Flow |       | TDU Flow |       | Leachate |       | Primary |       | Secondary |       | Stack Velocity |       | Stack Flow |                | Primary        |           | Secondary |           | Quench    |           | Stack     |           |
|------------|----------|-------|------|----------|--------|------|--------|----------|-------|----------|-------|----------|-------|----------|-------|---------|-------|-----------|-------|----------------|-------|------------|----------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|            |          | LPM   | LPM  | LPM      | LPM    | LPM  | SCFM   | SCFM     | LPM   | LPM      | LPM   | m3/h     | m3/h  | m3/h     | m3/h  | m3/h    | m3/h  | m3/h      | m3/h  | m3/h           | m3/h  | ft-260-VEL | ft-260-REF DRY | ft-260-REF DRY | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C |
| 2022-04-07 | 14:28:00 | 37.52 | 8.74 | 157.02   | 188.33 | 5.21 | 312.38 | 23.70    | 18250 | 11725    | 30.96 | 11725    | 30.96 | 11725    | 30.96 | 11725   | 30.96 | 11725     | 30.96 | 11725          | 74720 | 1366.8     | 1366.8         | 1108.1         | 457.5     | 186.0     | 180.2     | 180.2     | 180.2     | 180.2     |           |
| 2022-04-07 | 14:30:00 | 37.76 | 8.93 | 158.87   | 188.73 | 5.22 | 313.28 | 23.70    | 18800 | 11742    | 33.32 | 11742    | 33.32 | 11742    | 33.32 | 11742   | 33.32 | 11742     | 33.32 | 11742          | 80484 | 1364.3     | 1364.3         | 1105.9         | 457.0     | 185.0     | 180.2     | 180.2     | 180.2     |           |           |
| 2022-04-07 | 14:31:00 | 37.83 | 9.10 | 157.31   | 189.86 | 5.18 | 310.73 | 23.78    | 18544 | 11697    | 33.45 | 11697    | 33.45 | 11697    | 33.45 | 11697   | 33.45 | 11697     | 33.45 | 11697          | 81822 | 1362.1     | 1362.1         | 1108.5         | 457.3     | 184.0     | 179.1     | 179.1     | 179.1     |           |           |
| 2022-04-07 | 14:32:00 | 38.67 | 9.01 | 157.40   | 189.45 | 5.22 | 313.13 | 23.78    | 18200 | 11579    | 30.95 | 11579    | 30.95 | 11579    | 30.95 | 11579   | 30.95 | 11579     | 30.95 | 11579          | 75898 | 1360.6     | 1360.6         | 1101.4         | 456.9     | 184.0     | 179.1     | 179.1     | 179.1     |           |           |
| 2022-04-07 | 14:33:00 | 38.49 | 8.93 | 157.59   | 189.31 | 5.16 | 309.38 | 23.78    | 18031 | 11584    | 30.47 | 11584    | 30.47 | 11584    | 30.47 | 11584   | 30.47 | 11584     | 30.47 | 11584          | 75017 | 1359.6     | 1359.6         | 1108.1         | 457.3     | 184.0     | 178.1     | 178.1     | 178.1     | 178.1     |           |
| 2022-04-07 | 14:34:00 | 39.06 | 9.09 | 158.34   | 189.77 | 5.22 | 313.28 | 22.76    | 18194 | 11449    | 30.71 | 11449    | 30.71 | 11449    | 30.71 | 11449   | 30.71 | 11449     | 30.71 | 11449          | 74843 | 1371.1     | 1371.1         | 1111.2         | 456.8     | 184.5     | 178.1     | 178.1     | 178.1     | 178.1     |           |
| 2022-04-07 | 14:35:00 | 38.55 | 8.72 | 157.59   | 188.24 | 5.22 | 313.13 | 23.78    | 17819 | 11506    | 30.49 | 11506    | 30.49 | 11506    | 30.49 | 11506   | 30.49 | 11506     | 30.49 | 11506          | 74201 | 1378.6     | 1378.6         | 1116.9         | 456.8     | 184.5     | 178.1     | 178.1     | 178.1     | 178.1     |           |
| 2022-04-07 | 14:36:00 | 38.64 | 8.91 | 157.21   | 188.96 | 5.22 | 313.43 | 23.81    | 18294 | 11523    | 31.11 | 11523    | 31.11 | 11523    | 31.11 | 11523   | 31.11 | 11523     | 31.11 | 11523          | 75420 | 1376.8     | 1376.8         | 1117.3         | 456.3     | 184.5     | 178.1     | 178.1     | 178.1     | 178.1     |           |
| 2022-04-07 | 14:37:00 | 38.69 | 8.92 | 158.02   | 190.35 | 5.24 | 314.10 | 23.85    | 17906 | 11517    | 30.79 | 11517    | 30.79 | 11517    | 30.79 | 11517   | 30.79 | 11517     | 30.79 | 11517          | 74700 | 1381.1     | 1381.1         | 1119.4         | 456.5     | 185.0     | 179.2     | 179.2     | 179.2     | 179.2     |           |
| 2022-04-07 | 14:38:00 | 38.73 | 8.92 | 157.87   | 189.27 | 5.20 | 312.15 | 22.80    | 18444 | 11652    | 31.30 | 11652    | 31.30 | 11652    | 31.30 | 11652   | 31.30 | 11652     | 31.30 | 11652          | 76006 | 1381.2     | 1381.2         | 1121.7         | 456.2     | 185.5     | 179.2     | 179.2     | 179.2     | 179.2     |           |
| 2022-04-07 | 14:39:00 | 39.23 | 9.02 | 158.45   | 189.09 | 5.27 | 315.98 | 22.80    | 18163 | 11579    | 30.76 | 11579    | 30.76 | 11579    | 30.76 | 11579   | 30.76 | 11579     | 30.76 | 11579          | 74636 | 1385.6     | 1385.6         | 1124.3         | 455.8     | 186.5     | 179.2     | 179.2     | 179.2     | 179.2     |           |
| 2022-04-07 | 14:40:00 | 38.63 | 8.97 | 157.87   | 189.45 | 5.22 | 313.20 | 22.80    | 18066 | 11472    | 33.00 | 11472    | 33.00 | 11472    | 33.00 | 11472   | 33.00 | 11472     | 33.00 | 11472          | 79273 | 1390.9     | 1390.9         | 1136.2         | 455.7     | 190.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:41:00 | 38.72 | 9.20 | 157.35   | 189.27 | 5.21 | 312.53 | 22.80    | 18144 | 11506    | 30.65 | 11506    | 30.65 | 11506    | 30.65 | 11506   | 30.65 | 11506     | 30.65 | 11506          | 73470 | 1386.6     | 1386.6         | 1134.8         | 456.2     | 190.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:42:00 | 38.28 | 9.19 | 157.92   | 188.96 | 5.28 | 317.03 | 22.80    | 18563 | 11601    | 30.69 | 11601    | 30.69 | 11601    | 30.69 | 11601   | 30.69 | 11601     | 30.69 | 11601          | 74381 | 1382.4     | 1382.4         | 1129.8         | 456.1     | 187.5     | 179.2     | 179.2     | 179.2     | 179.2     |           |
| 2022-04-07 | 14:43:00 | 38.66 | 8.98 | 157.44   | 189.45 | 5.30 | 317.70 | 23.85    | 17863 | 11489    | 31.62 | 11489    | 31.62 | 11489    | 31.62 | 11489   | 31.62 | 11489     | 31.62 | 11489          | 74477 | 1386.6     | 1386.6         | 1131.8         | 456.1     | 188.0     | 180.2     | 180.2     | 180.2     | 180.2     |           |
| 2022-04-07 | 14:44:00 | 38.66 | 9.03 | 157.44   | 188.87 | 5.29 | 317.18 | 22.91    | 18894 | 11742    | 31.86 | 11742    | 31.86 | 11742    | 31.86 | 11742   | 31.86 | 11742     | 31.86 | 11742          | 76390 | 1390.3     | 1390.3         | 1133.4         | 456.3     | 188.0     | 180.2     | 180.2     | 180.2     | 180.2     |           |
| 2022-04-07 | 14:45:00 | 38.54 | 9.00 | 157.92   | 190.22 | 5.29 | 317.10 | 22.91    | 18125 | 11590    | 30.77 | 11590    | 30.77 | 11590    | 30.77 | 11590   | 30.77 | 11590     | 30.77 | 11590          | 73430 | 1389.1     | 1389.1         | 1131.1         | 455.9     | 188.5     | 180.2     | 180.2     | 180.2     | 180.2     |           |
| 2022-04-07 | 14:46:00 | 38.19 | 8.99 | 157.83   | 190.17 | 5.37 | 315.98 | 22.91    | 18369 | 11657    | 33.24 | 11657    | 33.24 | 11657    | 33.24 | 11657   | 33.24 | 11657     | 33.24 | 11657          | 79525 | 1392.4     | 1392.4         | 1134.6         | 456.8     | 189.0     | 181.3     | 181.3     | 181.3     | 181.3     |           |
| 2022-04-07 | 14:47:00 | 38.64 | 9.13 | 157.78   | 188.82 | 5.30 | 318.15 | 23.06    | 18144 | 11629    | 30.70 | 11629    | 30.70 | 11629    | 30.70 | 11629   | 30.70 | 11629     | 30.70 | 11629          | 73629 | 1388.7     | 1388.7         | 1133.1         | 456.1     | 189.5     | 180.5     | 180.5     | 180.5     | 180.5     |           |
| 2022-04-07 | 14:48:00 | 38.21 | 9.17 | 158.40   | 189.86 | 5.26 | 315.68 | 23.06    | 17938 | 11472    | 33.00 | 11472    | 33.00 | 11472    | 33.00 | 11472   | 33.00 | 11472     | 33.00 | 11472          | 79273 | 1390.9     | 1390.9         | 1136.2         | 455.7     | 190.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:49:00 | 38.00 | 9.42 | 158.06   | 189.41 | 5.29 | 317.33 | 23.06    | 17988 | 11657    | 30.71 | 11657    | 30.71 | 11657    | 30.71 | 11657   | 30.71 | 11657     | 30.71 | 11657          | 73470 | 1386.6     | 1386.6         | 1134.8         | 456.2     | 190.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:50:00 | 38.18 | 9.17 | 158.02   | 188.42 | 5.27 | 316.20 | 23.06    | 17756 | 11556    | 30.62 | 11556    | 30.62 | 11556    | 30.62 | 11556   | 30.62 | 11556     | 30.62 | 11556          | 73271 | 1391.6     | 1391.6         | 1138.2         | 456.8     | 190.5     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:51:00 | 38.13 | 8.96 | 157.44   | 188.96 | 5.31 | 318.45 | 23.06    | 18100 | 11669    | 31.02 | 11669    | 31.02 | 11669    | 31.02 | 11669   | 31.02 | 11669     | 31.02 | 11669          | 73683 | 1390.2     | 1390.2         | 1135.8         | 456.9     | 191.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:52:00 | 38.78 | 9.27 | 158.34   | 189.45 | 5.31 | 318.53 | 23.06    | 17631 | 11551    | 29.39 | 11551    | 29.39 | 11551    | 29.39 | 11551   | 29.39 | 11551     | 29.39 | 11551          | 70055 | 1398.1     | 1398.1         | 1139.4         | 455.9     | 191.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:53:00 | 37.43 | 9.36 | 157.74   | 190.67 | 5.32 | 319.35 | 23.06    | 18275 | 11657    | 31.33 | 11657    | 31.33 | 11657    | 31.33 | 11657   | 31.33 | 11657     | 31.33 | 11657          | 74321 | 1392.8     | 1392.8         | 1136.3         | 456.2     | 191.0     | 181.6     | 181.6     | 181.6     | 181.6     |           |
| 2022-04-07 | 14:54:00 | 37.08 | 9.34 | 157.40   | 190.44 | 5.32 | 319.35 | 23.06    | 17944 | 11444    | 30.44 | 11444    | 30.44 | 11444    | 30.44 | 11444   | 30.44 | 11444     | 30.44 | 11444          | 72311 | 1393.4     | 1393.4         | 1135.5         | 455.8     | 191.5     | 182.8     | 182.8     | 182.8     | 182.8     |           |
| 2022-04-07 | 14:55:00 | 36.95 | 8.95 | 157.25   | 189.77 | 5.32 | 319.20 | 23.06    | 18381 | 11624    | 31.32 | 11624    | 31.32 | 11624    | 31.32 | 11624   | 31.32 | 11624     | 31.32 | 11624          | 74798 | 1387.4     | 1387.4         | 1132.8         | 456.8     | 191.0     | 182.8     | 182.8     | 182.8     | 182.8     |           |
| 2022-04-07 | 14:56:00 | 36.84 | 8.89 | 157.83   | 188.91 | 5.31 | 318.45 | 23.06    | 18019 | 11405    | 30.40 | 11405    | 30.40 | 11405    | 30.40 | 11405   | 30.40 | 11405     | 30.40 | 11405          | 73295 | 1393.7     | 1393.7         | 1132.1         | 456.8     | 191.5     | 182.8     | 182.8     | 182.8     | 182.8     |           |
| 2022-04-07 | 14:57:00 | 36.77 | 8.96 | 157.74   | 188.96 | 5.29 | 317.33 | 23.06    | 18488 | 11663    | 31.08 | 11663    | 31.08 | 11663    | 31.08 | 11663   | 31.08 | 11663     | 31.08 | 11663          | 74894 | 1379.7     | 1379.7         | 1130.5         | 457.0     | 191.0     | 182.8     | 182.8     | 182.8     | 182.8     |           |
| 2022-04-07 | 14:58:00 | 36.65 | 9.01 | 158.06   | 189.45 | 5.32 | 318.90 | 23.06    | 18038 | 11652    | 30.79 | 11652    | 30.79 | 11652    | 30.79 | 11652   | 30.79 | 11652     | 30.79 | 11652          | 73646 | 1381.4     | 1381.4         | 1130.4         | 457.0     | 190.5     | 182.8     | 182.8     | 182.8     | 182.8     |           |
| 2022-04-07 | 14:59:00 | 37.05 | 9.05 | 157.55   | 189.59 | 5.25 | 314.78 | 23.06    | 18206 | 11511    | 32.80 | 11511    | 32.80 | 11511    | 32.80 | 11511   | 32.80 | 11511     | 32.80 | 11511          | 78680 | 1384.1     | 1384.1         | 1132.6         | 457.7     | 189.5     | 182.7     | 182.7     | 182.7     | 182.7     |           |
| 2022-04-07 | 15:00:00 | 37.25 | 9.38 | 156.74   | 189.72 | 5.28 | 316.88 | 23.06    | 17694 | 11556    | 30.50 | 11556    | 30.50 | 11556    | 30.50 | 11556   | 30.50 | 11556     | 30.50 | 11556          | 73005 | 1383.1     | 1383.1         | 1130.7         | 456.8     | 190.5     | 182.9     | 182.9     | 182.9     | 182.9     |           |
| 2022-04-07 | 15:01:00 | 36.77 | 9.23 | 157.25   | 188.51 | 5.31 | 318.60 | 23.06    | 18650 | 11601    | 33.19 | 11601    | 33.19 | 11601    | 33.19 | 11601   | 33.19 | 11601     | 33.19 | 11601          | 79642 | 1386.6     | 1386.6         | 1133.0         | 457.3     | 189.5     | 182.7     | 182.7     | 182.7     | 182.7     |           |
| 2022-04-07 | 15:02:00 | 37.08 | 9.35 | 157.83   | 189.86 | 5.31 | 318.68 | 23.06    | 18138 | 11534    | 30.97 | 11534    | 30.97 | 11534    | 30.97 | 11534   | 30.97 | 11534     | 30.97 | 11534          | 74049 | 1382.9     | 1382.9         | 1130.9         | 457.4     | 190.0     | 182.7     | 182.7     | 182.7     | 182.7     |           |
| 2022-04-07 | 15:03:00 | 36.74 | 8.90 | 157.40   | 187.79 | 5.33 | 319.88 | 23.06    | 18206 | 11511    | 32.80 | 11511    | 32.80 | 11511    | 32.80 | 11511   | 32.80 | 11511     | 32.80 | 11511          | 78680 | 1384.1     | 1384.1         | 1132.6         | 457.7     | 189.5     | 182.7     | 182.7     | 182.7     | 182.7     |           |
| 2022-04-07 | 15:04:00 | 36.84 | 9.13 | 157.74   | 189.45 | 5.33 | 319.50 | 23.06    | 18094 | 11528    | 31.13 | 11528    | 31.13 | 11528    | 31.13 | 11528   | 31.13 | 11528     | 31.13 | 11528          | 74746 | 1378.4     | 1378.4         | 1128.4         | 457.6     | 189.5     | 182.7     | 182.7     | 182.7     | 182.7     |           |
| 2022-04-07 | 15:05:00 | 36.87 | 8.83 | 158.30   | 189.50 | 5.36 | 321.60 | 23.06    | 17950 | 11584    | 30.41 | 11584    |       |          |       |         |       |           |       |                |       |            |                |                |           |           |           |           |           |           |           |

| \$Date     | \$Time   | Incinerator<br>mmH2O | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH gP       | CO           | HCl<br>PPM | CO2<br>% | H2O<br>%  | THC<br>PPM   | Main O2<br>% | Opacity<br>% | SO2<br>PPM | PAC<br>lbs/h |
|------------|----------|----------------------|--------------------|-------------------|-------------------|-------------|--------------|------------|----------|-----------|--------------|--------------|--------------|------------|--------------|
|            |          | PT-249               | PT-249             | PT-615            | PDT-622           | AT-205-INEW | AT-213A-INEW | F-213B-INE | AT-213CB | T-259-INE | AT-261A-INEW | AT-263       | T-264-INE    | SC-PAC-FT  |              |
| 2022-04-07 | 10:37:00 | -15.30               | -33.25             | -83.78            | 393.44            | 98.12       | 98.12        | -0.25      | 8.13     | 45.80     | 55.60        | 8.95         | 0.06         | 0.20       | 22.60        |
| 2022-04-07 | 10:38:00 | -10.85               | -22.75             | -78.04            | 407.50            | 116.18      | 116.18       | 0.77       | 8.02     | 45.42     | 63.60        | 9.23         | 0.06         | 0.20       | 23.34        |
| 2022-04-07 | 10:39:00 | -14.10               | -29.38             | -85.46            | 388.06            | 125.88      | 125.88       | 0.77       | 7.98     | 45.08     | 58.40        | 9.23         | 0.07         | 0.20       | 22.42        |
| 2022-04-07 | 10:40:00 | -8.05                | -18.63             | -76.09            | 404.13            | 108.83      | 108.83       | -0.51      | 7.95     | 44.48     | 60.50        | 9.23         | 0.06         | 0.20       | 23.34        |
| 2022-04-07 | 10:41:00 | -13.50               | -27.00             | -86.18            | 371.44            | 95.22       | 95.22        | -0.51      | 7.92     | 44.22     | 60.60        | 9.23         | 0.09         | 1.30       | 22.18        |
| 2022-04-07 | 10:42:00 | -6.85                | -22.00             | -73.91            | 386.31            | 84.95       | 84.95        | -0.51      | 8.02     | 44.32     | 56.00        | 9.23         | 0.09         | 1.30       | 23.70        |
| 2022-04-07 | 10:43:00 | -12.55               | -24.63             | -83.10            | 398.88            | 70.39       | 70.39        | 0.90       | 8.00     | 44.31     | 61.00        | 9.23         | 0.16         | 1.30       | 22.55        |
| 2022-04-07 | 10:44:00 | -5.25                | -16.75             | -69.83            | 415.81            | 68.81       | 68.81        | -0.40      | 8.05     | 44.41     | 58.50        | 9.23         | 0.01         | 1.30       | 23.52        |
| 2022-04-07 | 10:45:00 | -30.65               | -45.88             | -108.34           | 342.94            | 65.98       | 65.98        | -0.40      | 8.37     | 44.55     | 64.00        | 9.23         | 0.14         | 2.50       | 23.31        |
| 2022-04-07 | 10:46:00 | -6.80                | -16.38             | -74.21            | 401.38            | 63.92       | 63.92        | -0.40      | 8.69     | 44.77     | 56.70        | 9.23         | 0.06         | 3.60       | 23.34        |
| 2022-04-07 | 10:47:00 | -26.85               | -43.13             | -109.24           | 339.25            | 67.18       | 67.18        | -0.40      | 8.38     | 44.64     | 60.10        | 9.23         | 0.04         | 3.60       | 22.73        |
| 2022-04-07 | 10:48:00 | -9.25                | -19.50             | -79.31            | 402.50            | 58.08       | 58.08        | -0.40      | 8.36     | 44.49     | 52.70        | 9.23         | 0.10         | 3.60       | 23.70        |
| 2022-04-07 | 10:49:00 | -5.75                | -20.63             | -77.25            | 388.75            | 53.01       | 53.01        | -0.40      | 8.30     | 44.08     | 58.80        | 9.23         | 0.10         | 3.60       | 22.58        |
| 2022-04-07 | 10:50:00 | -8.45                | -22.63             | -76.65            | 382.75            | 56.18       | 56.18        | 0.86       | 8.61     | 44.36     | 53.70        | 9.23         | 0.06         | 3.60       | 22.76        |
| 2022-04-07 | 10:51:00 | -3.65                | -17.00             | -69.75            | 395.13            | 57.44       | 57.44        | 0.86       | 8.63     | 44.46     | 60.00        | 9.23         | 0.10         | 3.60       | 22.39        |
| 2022-04-07 | 10:52:00 | -3.70                | -14.13             | -71.59            | 411.00            | 57.98       | 57.98        | 0.86       | 8.43     | 44.65     | 54.70        | 9.23         | 0.00         | 4.80       | 23.13        |
| 2022-04-07 | 10:53:00 | -1.60                | -12.13             | -66.23            | 423.13            | 56.37       | 56.37        | 0.86       | 8.46     | 44.80     | 63.90        | 9.23         | 0.05         | 4.80       | 22.50        |
| 2022-04-07 | 10:54:00 | -9.40                | -23.00             | -79.88            | 399.06            | 53.20       | 53.20        | 0.86       | 8.86     | 45.09     | 57.60        | 8.98         | 0.04         | 6.70       | 22.86        |
| 2022-04-07 | 10:55:00 | -4.15                | -17.50             | -70.61            | 410.94            | 51.09       | 51.09        | 0.86       | 8.82     | 45.04     | 58.80        | 8.75         | 0.02         | 6.70       | 22.55        |
| 2022-04-07 | 10:56:00 | -10.70               | -25.25             | -82.16            | 393.94            | 47.73       | 47.73        | -1.20      | 8.73     | 44.90     | 56.10        | 8.97         | 0.10         | 6.70       | 23.18        |
| 2022-04-07 | 10:57:00 | -4.40                | -15.50             | -72.98            | 405.31            | 44.08       | 44.08        | -1.20      | 8.38     | 44.71     | 57.20        | 8.97         | 0.05         | 5.50       | 23.42        |
| 2022-04-07 | 10:58:00 | -12.00               | -25.88             | -84.75            | 371.63            | 45.00       | 45.00        | -1.20      | 8.08     | 44.54     | 61.30        | 8.97         | 0.10         | 5.50       | 23.49        |
| 2022-04-07 | 10:59:00 | -5.60                | -14.63             | -71.93            | 388.81            | 51.77       | 51.77        | 0.60       | 8.42     | 44.67     | 56.80        | 8.97         | 0.06         | 5.50       | 22.34        |
| 2022-04-07 | 11:00:00 | -10.85               | -21.75             | -84.19            | 388.31            | 53.88       | 53.88        | 0.60       | 8.44     | 44.55     | 63.20        | 8.97         | 0.16         | 5.50       | 22.34        |
| 2022-04-07 | 11:01:00 | -2.80                | -14.75             | -68.89            | 416.31            | 53.54       | 53.54        | -0.64      | 8.77     | 44.65     | 60.40        | 8.97         | 0.06         | 5.50       | 23.42        |
| 2022-04-07 | 11:02:00 | -29.35               | -50.25             | -112.28           | 338.38            | 55.38       | 55.38        | 0.75       | 9.10     | 44.91     | 66.20        | 8.97         | 0.15         | 5.50       | 23.63        |
| 2022-04-07 | 11:03:00 | -5.60                | -18.13             | -72.26            | 403.50            | 57.86       | 57.86        | 0.75       | 9.16     | 45.06     | 54.70        | 8.97         | 0.10         | 5.50       | 23.26        |
| 2022-04-07 | 11:04:00 | -21.65               | -38.25             | -99.71            | 349.81            | 55.90       | 55.90        | 0.75       | 8.74     | 44.75     | 61.90        | 8.97         | 0.06         | 5.50       | 23.60        |
| 2022-04-07 | 11:05:00 | -6.00                | -16.13             | -75.79            | 402.38            | 55.56       | 55.56        | 0.75       | 8.69     | 44.85     | 54.50        | 8.97         | 0.06         | 5.50       | 22.21        |
| 2022-04-07 | 11:06:00 | -3.95                | -13.00             | -68.78            | 412.25            | 58.33       | 58.33        | 0.75       | 8.38     | 44.65     | 61.00        | 8.97         | 0.14         | 5.50       | 22.34        |
| 2022-04-07 | 11:07:00 | -5.10                | -14.63             | -73.91            | 381.94            | 59.41       | 59.41        | 0.75       | 8.69     | 44.63     | 54.90        | 8.97         | 0.11         | 5.50       | 23.34        |
| 2022-04-07 | 11:08:00 | -3.95                | -14.63             | -68.36            | 395.69            | 58.41       | 58.41        | 0.75       | 8.70     | 44.79     | 61.30        | 8.97         | 0.15         | 5.50       | 23.52        |
| 2022-04-07 | 11:09:00 | -4.20                | -15.88             | -70.09            | 408.81            | 54.11       | 54.11        | 0.75       | 8.75     | 44.80     | 55.30        | 8.97         | 0.11         | 5.50       | 22.26        |
| 2022-04-07 | 11:10:00 | 0.75                 | -9.00              | -61.31            | 416.81            | 50.41       | 50.41        | 0.75       | 8.74     | 44.78     | 62.70        | 8.97         | 0.10         | 5.50       | 22.84        |
| 2022-04-07 | 11:11:00 | -9.80                | -22.13             | -79.05            | 395.13            | 52.54       | 52.54        | -0.94      | 8.74     | 45.15     | 59.70        | 8.97         | 0.06         | 5.50       | 22.26        |
| 2022-04-07 | 11:12:00 | -3.35                | -15.00             | -68.40            | 410.50            | 58.62       | 58.62        | -0.94      | 8.75     | 45.30     | 62.80        | 8.97         | 0.06         | 5.50       | 22.37        |
| 2022-04-07 | 11:13:00 | -11.35               | -24.13             | -82.35            | 391.31            | 65.35       | 65.35        | 0.27       | 8.74     | 45.03     | 62.20        | 8.97         | 0.09         | 4.20       | 22.94        |
| 2022-04-07 | 11:14:00 | -4.40                | -15.88             | -73.13            | 403.63            | 72.02       | 72.02        | 0.27       | 8.70     | 44.80     | 58.90        | 8.97         | 0.12         | 4.20       | 23.02        |
| 2022-04-07 | 11:15:00 | -12.10               | -24.63             | -83.89            | 367.13            | 69.43       | 69.43        | 0.27       | 8.37     | 44.82     | 64.20        | 8.97         | 0.10         | 4.20       | 23.60        |
| 2022-04-07 | 11:16:00 | -5.25                | -18.00             | -70.73            | 388.38            | 72.23       | 72.23        | -0.81      | 8.39     | 45.10     | 58.90        | 8.97         | 0.12         | 3.10       | 22.68        |
| 2022-04-07 | 11:17:00 | -26.85               | -41.50             | -104.44           | 350.50            | 76.49       | 76.49        | -0.81      | 8.39     | 45.11     | 64.70        | 8.97         | 0.22         | 4.30       | 23.65        |
| 2022-04-07 | 11:18:00 | -1.95                | -15.00             | -65.93            | 412.25            | 76.03       | 76.03        | -0.81      | 8.71     | 45.30     | 60.40        | 8.97         | 0.10         | 4.30       | 23.10        |
| 2022-04-07 | 11:19:00 | -27.90               | -46.13             | -109.28           | 339.19            | 75.36       | 75.36        | 0.35       | 8.72     | 45.16     | 66.90        | 8.97         | 0.10         | 3.30       | 22.44        |
| 2022-04-07 | 11:20:00 | -6.45                | -14.75             | -74.74            | 401.38            | 77.54       | 77.54        | 0.35       | 8.73     | 45.06     | 54.60        | 8.97         | 0.14         | 3.30       | 23.57        |
| 2022-04-07 | 11:21:00 | -2.20                | -14.00             | -72.90            | 400.56            | 73.29       | 73.29        | -1.31      | 8.36     | 44.73     | 63.50        | 8.97         | 0.14         | 3.30       | 23.13        |
| 2022-04-07 | 11:22:00 | -7.50                | -20.00             | -79.05            | 399.38            | 74.29       | 74.29        | 1.61       | 8.39     | 44.66     | 55.40        | 8.97         | 0.16         | 3.30       | 22.39        |
| 2022-04-07 | 11:23:00 | -2.60                | -12.88             | -69.11            | 409.19            | 70.45       | 70.45        | 1.61       | 8.38     | 44.31     | 61.50        | 8.97         | 0.16         | 3.30       | 22.44        |
| 2022-04-07 | 11:24:00 | -6.90                | -16.25             | -75.94            | 380.75            | 61.65       | 61.65        | -0.21      | 8.67     | 44.51     | 55.60        | 8.97         | 0.15         | 3.30       | 23.13        |
| 2022-04-07 | 11:25:00 | -4.10                | -17.38             | -70.39            | 395.19            | 64.70       | 64.70        | -0.21      | 8.64     | 44.64     | 61.10        | 8.97         | 0.19         | 3.30       | 23.52        |
| 2022-04-07 | 11:26:00 | -5.60                | -19.63             | -73.09            | 409.00            | 72.10       | 72.10        | -0.21      | 8.38     | 44.80     | 56.80        | 9.18         | 0.09         | 3.30       | 22.79        |
| 2022-04-07 | 11:27:00 | -0.35                | -9.88              | -64.31            | 419.13            | 72.71       | 72.71        | -0.21      | 8.41     | 44.89     | 63.20        | 9.18         | 0.14         | 3.30       | 22.31        |
| 2022-04-07 | 11:28:00 | -12.60               | -26.00             | -81.23            | 390.38            | 77.48       | 77.48        | 1.01       | 8.43     | 44.81     | 61.30        | 9.18         | 0.14         | 3.30       | 23.65        |
| 2022-04-07 | 11:29:00 | -4.40                | -14.25             | -69.98            | 408.38            | 70.94       | 70.94        | 1.01       | 8.73     | 44.80     | 62.20        | 8.98         | 0.10         | 3.30       | 23.21        |
| 2022-04-07 | 11:30:00 | -14.20               | -28.25             | -86.29            | 389.13            | 72.04       | 72.04        | 1.01       | 8.39     | 44.88     | 62.10        | 8.98         | 0.16         | 3.30       | 23.26        |
| 2022-04-07 | 11:31:00 | -5.45                | -17.13             | -72.45            | 403.88            | 73.08       | 73.08        | 1.01       | 8.08     | 44.98     | 57.10        | 8.98         | 0.16         | 3.30       | 23.57        |
| 2022-04-07 | 11:32:00 | -19.80               | -33.75             | -95.81            | 360.50            | 66.21       | 66.21        | -0.13      | 8.06     | 44.78     | 60.80        | 9.19         | 0.19         | 3.30       | 23.52        |
| 2022-04-07 | 11:33:00 | -7.85                | -17.88             | -75.26            | 389.19            | 66.66       | 66.66        | -0.13      | 8.34     | 44.76     | 57.60        | 9.19         | 0.22         | 3.30       | 22.37        |
| 2022-04-07 | 11:34:00 | -29.45               | -46.38             | -112.50           | 341.88            | 72.81       | 72.81        | -0.13      | 7.98     | 44.34     | 63.50        | 9.19         | 0.25         | 2.20       | 22.39        |
| 2022-04-07 | 11:35:00 | -3.65                | -14.50             | -69.41            | 414.94            | 80.24       | 80.24        | -0.13      | 8.04     | 44.53     | 58.10        | 9.19         | 0.16         | 2.20       | 23.21        |
| 2022-04-07 | 11:36:00 | -24.30               | -44.38             | -103.84           | 352.94            | 86.19       | 86.19        | -0.13      | 8.34     | 44.73     | 67.50        | 9.19         | 0.16         | 2.20       | 23.63        |
| 2022-04-07 | 11:37:00 | -6.90                | -20.75             | -75.68            | 402.00            | 86.38       | 86.38        | -0.13      | 8.62     | 44.65     | 55.50        | 9.19         | 0.14         | 2.20       | 23.65        |
| Max        |          | 0.75                 | -9.00              | -61.31            | 423.13            | 125.88      | 125.88       | 1.61       | 9.16     | 45.80     | 67.50        | 9.23         | 0.25         | 6.70       | 23.70        |
| Min        |          | -30.65               | -50.25             | -112.50           | 338.38            | 44.08       | 44.08        | -1.31      | 7.92     | 44.08     | 52.70        | 8.75         | 0.00         | 0.20       | 22.18        |
| Average    |          | -9.65                | -22.36             | -79.44            | 391.18            | 67.98       | 67.98        | 0.14       | 8.46     | 44.77     | 59.65        | 9.07         | 0.11         | 3.78       | 22.99        |
| Variance   |          | 63.28                | 102.87             | 161.70            | 499.88            | 265.47      | 265.47       | 0.55       | 0.09     | 0.10      | 12.50        | 0.02         | 0.00         | 2.79       | 0.26         |

| SDate    | Time | Incinerator<br>mmH2O | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH dP   | CO          | HCl          | CO2        | H2O      | THC        | Main O2      | Opacity | SO2       | PAC       |
|----------|------|----------------------|--------------------|-------------------|---------|-------------|--------------|------------|----------|------------|--------------|---------|-----------|-----------|
|          |      | PT-242A              | PT-249             | POT-615           | POT-622 | AT-205-INEW | AT-213A-INEW | F-213B-INE | AT-213CB | T-2159-INE | AT-261A-INEW | AT-263  | T-264-INE | SC-PAC-FT |
|          |      | -10.85               | -21.75             | -83.36            | 380.56  | 68.84       | 1.13         | 8.35       | 43.79    | 60.00      | 9.19         | 0.16    | 3.60      | 23.65     |
|          |      | -5.05                | -14.63             | -73.69            | 396.31  | 74.70       | -0.23        | 8.34       | 43.94    | 65.10      | 9.19         | 0.06    | 3.60      | 22.81     |
|          |      | -1.65                | -7.13              | -66.60            | 417.81  | 64.24       | 0.92         | 9.07       | 44.37    | 65.70      | 8.95         | 0.14    | 4.60      | 22.47     |
|          |      | -17.75               | -26.75             | -93.04            | 388.50  | 61.67       | 0.92         | 9.11       | 44.34    | 66.30      | 8.95         | 0.14    | 4.60      | 23.73     |
|          |      | -16.85               | -27.13             | -93.71            | 374.56  | 63.11       | 0.92         | 8.43       | 44.28    | 61.00      | 8.95         | 0.16    | 5.20      | 23.76     |
|          |      | -6.80                | -14.88             | -76.35            | 402.31  | 61.62       | 0.92         | 8.30       | 44.09    | 56.20      | 9.16         | 0.14    | 4.00      | 23.57     |
|          |      | -25.45               | -41.75             | -107.21           | 328.19  | 60.91       | 0.92         | 8.25       | 43.81    | 64.00      | 9.16         | 0.16    | 4.00      | 22.39     |
|          |      | -7.50                | -15.00             | -76.61            | 385.63  | 70.66       | 0.92         | 8.33       | 43.82    | 57.00      | 9.16         | 0.14    | 2.90      | 23.15     |
|          |      | -26.70               | -44.63             | -105.56           | 350.25  | 70.34       | 0.92         | 8.32       | 43.85    | 61.90      | 9.16         | 0.19    | 2.90      | 22.39     |
|          |      | -4.50                | -16.88             | -71.59            | 411.13  | 67.04       | 0.92         | 8.64       | 43.95    | 55.70      | 9.16         | 0.07    | 2.90      | 22.68     |
|          |      | -2.10                | -7.88              | -67.99            | 421.56  | 62.90       | 0.92         | 8.33       | 43.85    | 69.30      | 9.16         | 0.12    | 2.90      | 22.50     |
|          |      | -9.05                | -23.63             | -79.28            | 397.94  | 69.51       | 0.92         | 8.35       | 43.96    | 55.20      | 9.16         | 0.09    | 2.90      | 22.94     |
|          |      | -5.35                | -15.88             | -71.36            | 408.69  | 75.41       | 0.92         | 8.36       | 44.01    | 62.80      | 9.16         | 0.15    | 2.90      | 22.76     |
|          |      | -9.75                | -20.75             | -82.43            | 393.63  | 71.78       | 0.92         | 8.32       | 43.74    | 54.50      | 9.16         | 0.14    | 2.90      | 22.58     |
|          |      | -5.75                | -14.25             | -74.10            | 404.19  | 67.69       | 0.92         | 8.31       | 43.51    | 60.00      | 9.16         | 0.19    | 2.90      | 22.55     |
|          |      | -12.10               | -25.75             | -82.35            | 375.63  | 70.16       | -0.12        | 8.32       | 43.58    | 59.80      | 9.16         | 0.14    | 2.90      | 23.07     |
|          |      | -2.75                | -13.38             | -70.01            | 387.94  | 73.10       | -0.12        | 8.33       | 43.71    | 58.90      | 9.16         | 0.14    | 2.90      | 23.10     |
|          |      | -6.90                | -21.25             | -76.95            | 400.56  | 68.84       | -0.12        | 8.30       | 43.72    | 63.60      | 9.16         | 0.06    | 2.90      | 23.68     |
|          |      | -2.10                | -12.50             | -66.68            | 414.81  | 72.07       | -0.12        | 8.62       | 44.03    | 62.00      | 9.16         | 0.06    | 2.90      | 23.57     |
|          |      | -14.95               | -30.00             | -89.51            | 378.06  | 70.83       | -0.12        | 8.69       | 44.30    | 65.10      | 9.16         | 0.12    | 2.90      | 23.31     |
|          |      | -4.05                | -14.38             | -71.10            | 402.50  | 65.76       | 0.92         | 8.74       | 44.26    | 61.20      | 8.93         | 0.09    | 2.90      | 22.37     |
|          |      | -25.40               | -43.00             | -105.86           | 338.63  | 69.52       | 0.92         | 8.72       | 44.20    | 67.10      | 8.93         | 0.10    | 2.90      | 22.79     |
|          |      | -5.45                | -19.00             | -74.85            | 398.63  | 79.06       | 0.92         | 8.70       | 44.24    | 57.10      | 8.93         | 0.14    | 4.00      | 22.65     |
|          |      | -22.30               | -40.00             | -102.98           | 330.44  | 75.98       | 0.92         | 8.39       | 44.11    | 62.70      | 8.93         | 0.16    | 4.00      | 23.34     |
|          |      | -5.35                | -21.13             | -73.09            | 382.00  | 70.50       | 0.92         | 8.64       | 44.29    | 55.90      | 9.17         | 0.15    | 2.80      | 23.60     |
|          |      | -3.15                | -14.13             | -74.74            | 377.44  | 70.28       | 0.92         | 8.34       | 44.34    | 63.90      | 9.17         | 0.14    | 2.80      | 23.65     |
|          |      | -2.95                | -12.63             | -71.44            | 409.44  | 75.23       | 0.92         | 8.35       | 44.33    | 57.40      | 9.17         | 0.09    | 2.80      | 23.68     |
|          |      | -1.70                | -13.88             | -66.11            | 420.19  | 84.12       | 0.92         | 8.36       | 44.37    | 66.60      | 9.17         | 0.09    | 2.80      | 22.92     |
|          |      | -9.90                | -21.38             | -78.19            | 395.88  | 82.25       | 0.92         | 8.39       | 44.37    | 58.50      | 9.17         | 0.06    | 3.80      | 23.63     |
|          |      | -4.00                | -12.63             | -70.39            | 411.88  | 79.74       | 0.92         | 8.71       | 44.12    | 64.80      | 9.17         | 0.10    | 3.80      | 23.49     |
|          |      | -11.00               | -26.13             | -81.26            | 393.94  | 74.96       | 0.92         | 8.35       | 43.93    | 55.90      | 9.17         | 0.10    | 2.60      | 22.37     |
|          |      | -3.80                | -14.75             | -72.04            | 402.63  | 71.30       | 0.92         | 8.31       | 43.87    | 58.20      | 9.17         | 0.16    | 2.60      | 22.76     |
|          |      | -11.55               | -24.38             | -82.99            | 373.25  | 65.21       | 0.92         | 7.99       | 43.83    | 60.70      | 9.17         | 0.10    | 2.60      | 22.65     |
|          |      | -4.50                | -15.38             | -73.09            | 389.38  | 69.00       | -0.17        | 8.03       | 44.02    | 60.70      | 9.17         | 0.12    | 2.60      | 22.31     |
|          |      | -10.65               | -22.25             | -83.14            | 399.88  | 78.82       | -0.17        | 8.29       | 43.93    | 64.40      | 9.17         | 0.17    | 2.60      | 23.63     |
|          |      | -1.15                | -10.50             | -66.45            | 413.44  | 82.09       | -0.17        | 8.30       | 44.19    | 63.40      | 9.17         | 0.09    | 2.60      | 23.55     |
|          |      | -17.00               | -27.13             | -96.00            | 365.69  | 83.23       | 1.47         | 8.32       | 44.36    | 69.30      | 9.17         | 0.16    | 2.60      | 22.65     |
|          |      | -4.40                | -16.50             | -74.10            | 403.00  | 91.60       | 1.47         | 8.64       | 44.51    | 57.70      | 9.17         | 0.06    | 2.60      | 22.50     |
|          |      | -25.20               | -44.13             | -106.69           | 334.50  | 88.93       | 1.47         | 8.61       | 44.28    | 64.70      | 9.17         | 0.11    | 2.60      | 22.44     |
|          |      | -5.65                | -17.50             | -74.33            | 397.63  | 84.23       | 1.47         | 8.63       | 44.21    | 56.10      | 9.17         | 0.14    | 2.60      | 23.68     |
|          |      | -21.90               | -40.00             | -101.40           | 342.31  | 83.59       | 0.19         | 8.31       | 44.21    | 66.40      | 9.17         | 0.16    | 2.60      | 23.70     |
|          |      | -7.35                | -18.50             | -78.30            | 383.00  | 88.49       | 0.19         | 8.33       | 44.38    | 55.60      | 9.17         | 0.15    | 2.60      | 22.44     |
|          |      | -2.95                | -13.63             | -71.48            | 396.69  | 82.52       | 1.40         | 8.31       | 44.40    | 62.40      | 9.17         | 0.12    | 2.60      | 22.29     |
|          |      | -3.85                | -16.13             | -70.31            | 407.38  | 78.17       | 1.40         | 8.30       | 44.30    | 54.60      | 9.17         | 0.12    | 2.60      | 23.49     |
|          |      | -1.10                | -11.50             | -67.91            | 417.69  | 75.10       | 0.27         | 8.31       | 44.09    | 64.90      | 9.17         | 0.09    | 2.60      | 22.44     |
|          |      | -10.70               | -22.50             | -81.64            | 396.88  | 75.24       | 0.27         | 8.33       | 44.15    | 58.20      | 9.17         | 0.05    | 2.60      | 23.55     |
|          |      | -2.50                | -15.00             | -71.70            | 407.13  | 78.32       | 0.27         | 8.64       | 44.40    | 61.50      | 9.17         | 0.10    | 2.60      | 23.73     |
|          |      | -10.05               | -21.63             | -80.48            | 388.81  | 80.08       | 0.27         | 8.34       | 44.29    | 58.60      | 9.17         | 0.14    | 2.60      | 22.92     |
|          |      | -6.85                | -16.13             | -74.25            | 406.31  | 78.94       | 0.27         | 8.32       | 44.26    | 61.70      | 9.17         | 0.12    | 2.60      | 23.65     |
|          |      | -11.00               | -22.13             | -83.93            | 370.50  | 80.68       | 0.27         | 8.00       | 44.23    | 62.60      | 9.17         | 0.06    | 2.60      | 22.60     |
|          |      | -5.20                | -17.38             | -72.94            | 389.25  | 81.44       | 0.27         | 8.05       | 44.42    | 59.50      | 9.17         | 0.10    | 2.60      | 23.55     |
|          |      | -8.70                | -22.13             | -84.04            | 396.94  | 74.47       | 0.27         | 8.28       | 44.36    | 63.00      | 9.17         | 0.17    | 2.60      | 22.42     |
|          |      | -1.95                | -13.75             | -68.55            | 410.75  | 75.98       | 0.27         | 8.31       | 44.43    | 64.30      | 9.17         | 0.05    | 2.60      | 23.65     |
|          |      | -27.70               | -43.75             | -104.85           | 336.31  | 84.56       | 0.27         | 8.34       | 44.46    | 69.10      | 9.17         | 0.09    | 2.60      | 22.47     |
|          |      | -4.80                | -14.13             | -75.30            | 402.63  | 87.85       | 0.27         | 8.68       | 44.83    | 57.00      | 9.17         | 0.10    | 2.60      | 22.63     |
|          |      | -22.65               | -40.50             | -105.53           | 335.88  | 80.06       | 0.27         | 8.35       | 44.66    | 67.10      | 9.17         | 0.14    | 2.60      | 22.60     |
|          |      | -8.35                | -18.00             | -78.53            | 400.50  | 80.45       | 0.27         | 8.38       | 44.51    | 56.40      | 9.17         | 0.12    | 2.60      | 23.42     |
|          |      | -5.75                | -17.75             | -77.74            | 398.00  | 77.44       | 0.27         | 7.98       | 43.93    | 64.60      | 9.17         | 0.14    | 2.60      | 23.65     |
|          |      | -6.50                | -15.00             | -78.38            | 383.94  | 81.29       | 0.27         | 8.00       | 43.95    | 55.50      | 9.17         | 0.12    | 2.60      | 22.65     |
| Max      |      | -1.10                | -7.13              | -66.11            | 421.56  | 91.60       | 1.47         | 9.11       | 44.83    | 69.30      | 9.19         | 0.19    | 6.50      | 23.76     |
| Min      |      | -27.70               | -44.63             | -107.21           | 328.19  | 60.91       | -0.23        | 7.98       | 43.51    | 54.50      | 8.93         | 0.05    | 2.60      | 22.29     |
| Average  |      | -9.08                | -21.05             | -80.06            | 389.16  | 74.87       | 0.61         | 8.41       | 44.15    | 61.19      | 9.14         | 0.12    | 3.04      | 23.03     |
| Variance |      | 52.75                | 91.65              | 137.64            | 579.57  | 57.23       | 0.25         | 0.05       | 0.07     | 16.59      | 0.01         | 0.00    | 0.56      | 0.27      |



| \$Date     | \$Time   | Incinerator |         | SDA Inlet | BH Inlet | BH dP   | BH H2O      | CO           | HCl          | CO2          | H2O      | THC        | Main O2      | Opacity | SO2    | PAC        |           |
|------------|----------|-------------|---------|-----------|----------|---------|-------------|--------------|--------------|--------------|----------|------------|--------------|---------|--------|------------|-----------|
|            |          | mmH2O       | PT-242A |           |          |         |             |              |              |              |          |            |              |         |        |            | PPM       |
| 2022-04-07 | 13:15:00 |             | PT-242A | PT-249    | PT-615   | PDT-622 | AT-205-1NEW | AT-213A-1NEW | AT-213B-1NEW | AT-213B-1NEW | AT-213CB | T-259-1NEW | AT-261A-1NEW |         | AT-263 | T-261A-INE | SC-PAC-FT |
| 2022-04-07 | 13:16:00 | -11.50      | -24.38  | -82.99    | 380.13   | 114.68  | 0.17        | 0.17         | 7.84         | 42.68        | 56.30    | 9.54       | 0.12         | 1.20    | 23.10  | 23.02      | 23.10     |
| 2022-04-07 | 13:17:00 | -7.65       | -17.63  | -75.19    | 399.75   | 106.48  | 0.17        | 0.17         | 7.92         | 42.99        | 67.30    | 9.54       | 0.16         | 1.20    | 23.02  | 23.02      | 23.10     |
| 2022-04-07 | 13:18:00 | -1.15       | -12.13  | -67.13    | 416.44   | 102.15  | -0.91       | -0.91        | 8.33         | 43.49        | 68.00    | 9.22       | 0.04         | 1.20    | 22.71  | 22.71      | 22.71     |
| 2022-04-07 | 13:19:00 | -13.00      | -27.13  | -86.25    | 392.13   | 95.03   | -0.91       | -0.91        | 8.70         | 43.88        | 67.50    | 9.22       | 0.06         | 2.00    | 23.52  | 23.52      | 23.52     |
| 2022-04-07 | 13:20:00 | -6.45       | -16.50  | -74.06    | 408.69   | 97.32   | 0.34        | 0.34         | 8.75         | 44.16        | 63.60    | 9.00       | 0.05         | 4.00    | 23.63  | 23.63      | 23.63     |
| 2022-04-07 | 13:21:00 | -13.45      | -25.75  | -89.06    | 390.19   | 88.40   | 0.34        | 0.34         | 8.68         | 44.10        | 62.80    | 9.00       | 0.10         | 4.00    | 23.65  | 23.65      | 23.65     |
| 2022-04-07 | 13:22:00 | -9.65       | -19.50  | -80.14    | 404.00   | 78.60   | 0.34        | 0.34         | 8.66         | 43.98        | 59.60    | 9.00       | 0.09         | 4.00    | 22.65  | 22.65      | 22.65     |
| 2022-04-07 | 13:23:00 | -14.60      | -26.75  | -90.15    | 364.88   | 63.69   | 0.34        | 0.34         | 8.33         | 43.39        | 64.00    | 9.22       | 0.14         | 2.70    | 22.52  | 22.52      | 22.52     |
| 2022-04-07 | 13:24:00 | -6.35       | -19.50  | -76.88    | 388.38   | 61.68   | 0.34        | 0.34         | 8.63         | 43.50        | 59.70    | 9.22       | 0.06         | 2.70    | 23.47  | 23.47      | 23.47     |
| 2022-04-07 | 13:25:00 | -28.20      | -38.75  | -112.01   | 350.69   | 62.11   | 0.34        | 0.34         | 8.61         | 43.56        | 65.50    | 9.22       | 0.19         | 2.70    | 23.55  | 23.55      | 23.55     |
| 2022-04-07 | 13:26:00 | -2.85       | -11.63  | -74.14    | 413.06   | 66.51   | 0.34        | 0.34         | 9.03         | 43.71        | 61.40    | 9.00       | 0.06         | 4.20    | 22.39  | 22.39      | 22.39     |
| 2022-04-07 | 13:27:00 | -29.55      | -43.25  | -114.56   | 332.31   | 67.68   | 0.34        | 0.34         | 9.02         | 43.68        | 67.10    | 9.00       | 0.10         | 4.20    | 22.34  | 22.34      | 22.34     |
| 2022-04-07 | 13:28:00 | -7.20       | -18.13  | -78.08    | 401.44   | 61.33   | -0.90       | -0.90        | 9.04         | 43.79        | 54.30    | 9.00       | 0.10         | 4.20    | 23.42  | 23.42      | 23.42     |
| 2022-04-07 | 13:29:00 | -3.30       | -14.50  | -78.64    | 397.94   | 58.89   | 0.77        | 0.77         | 8.73         | 43.75        | 63.90    | 9.00       | 0.10         | 4.20    | 23.21  | 23.21      | 23.21     |
| 2022-04-07 | 13:30:00 | -8.05       | -20.88  | -82.91    | 397.81   | 64.12   | 0.77        | 0.77         | 8.37         | 43.63        | 64.00    | 9.00       | 0.10         | 4.20    | 23.60  | 23.60      | 23.60     |
| 2022-04-07 | 13:31:00 | -4.00       | -13.38  | -74.70    | 410.38   | 59.69   | 0.77        | 0.77         | 7.98         | 43.48        | 61.10    | 9.23       | 0.09         | 4.20    | 23.00  | 23.00      | 23.00     |
| 2022-04-07 | 13:32:00 | -8.35       | -17.38  | -82.46    | 380.19   | 57.02   | 0.77        | 0.77         | 8.30         | 43.75        | 54.10    | 9.23       | 0.12         | 4.20    | 22.31  | 22.31      | 22.31     |
| 2022-04-07 | 13:33:00 | -4.85       | -16.00  | -75.68    | 392.56   | 56.32   | 0.77        | 0.77         | 8.34         | 43.90        | 63.40    | 9.23       | 0.16         | 4.20    | 23.70  | 23.70      | 23.70     |
| 2022-04-07 | 13:34:00 | -3.80       | -13.38  | -72.60    | 404.94   | 58.92   | -0.51       | -0.51        | 8.34         | 43.69        | 58.60    | 9.23       | 0.06         | 4.20    | 23.68  | 23.68      | 23.68     |
| 2022-04-07 | 13:35:00 | -1.15       | -9.13   | -69.19    | 418.81   | 62.81   | -0.51       | -0.51        | 8.73         | 44.01        | 63.60    | 9.02       | 0.10         | 4.20    | 22.68  | 22.68      | 22.68     |
| 2022-04-07 | 13:36:00 | -12.15      | -24.75  | -86.51    | 392.38   | 61.87   | 0.90        | 0.90         | 8.77         | 44.17        | 64.80    | 9.02       | 0.06         | 4.20    | 22.37  | 22.37      | 22.37     |
| 2022-04-07 | 13:37:00 | -2.55       | -13.88  | -74.21    | 406.94   | 62.26   | 0.90        | 0.90         | 9.08         | 44.34        | 61.50    | 9.02       | 0.10         | 5.20    | 23.68  | 23.68      | 23.68     |
| 2022-04-07 | 13:38:00 | -11.55      | -23.00  | -88.69    | 389.44   | 55.30   | 0.90        | 0.90         | 9.06         | 44.13        | 63.00    | 9.02       | 0.12         | 5.20    | 22.52  | 22.52      | 22.52     |
| 2022-04-07 | 13:39:00 | -5.05       | -11.25  | -75.45    | 404.75   | 53.89   | 0.90        | 0.90         | 9.07         | 44.09        | 60.30    | 9.02       | 0.12         | 5.20    | 22.39  | 22.39      | 22.39     |
| 2022-04-07 | 13:40:00 | -16.55      | -31.63  | -96.19    | 362.69   | 50.77   | 0.90        | 0.90         | 9.00         | 44.25        | 63.70    | 9.02       | 0.09         | 5.20    | 23.65  | 23.65      | 23.65     |
| 2022-04-07 | 13:41:00 | -3.00       | -14.50  | -72.90    | 387.44   | 50.37   | 0.90        | 0.90         | 9.08         | 44.33        | 59.60    | 9.02       | 0.09         | 5.20    | 23.10  | 23.10      | 23.10     |
| 2022-04-07 | 13:42:00 | -24.30      | -38.88  | -110.21   | 340.50   | 52.78   | 0.90        | 0.90         | 8.81         | 44.07        | 55.60    | 9.02       | 0.19         | 5.20    | 22.86  | 22.86      | 22.86     |
| 2022-04-07 | 13:43:00 | -3.05       | -12.13  | -71.03    | 415.50   | 55.09   | -0.12       | -0.12        | 9.11         | 44.39        | 58.90    | 9.02       | 0.06         | 5.20    | 22.65  | 22.65      | 22.65     |
| 2022-04-07 | 13:44:00 | -23.20      | -35.63  | -106.50   | 348.38   | 55.09   | -0.12       | -0.12        | 9.04         | 44.39        | 69.00    | 9.02       | 0.10         | 5.20    | 22.94  | 22.94      | 22.94     |
| 2022-04-07 | 13:45:00 | -4.80       | -16.25  | -77.55    | 402.75   | 57.51   | 1.07        | 1.07         | 9.11         | 44.39        | 57.20    | 8.76       | 0.06         | 6.30    | 23.47  | 23.47      | 23.47     |
| 2022-04-07 | 13:46:00 | -1.80       | -9.38   | -71.85    | 412.81   | 59.93   | 1.07        | 1.07         | 9.10         | 44.35        | 64.10    | 8.76       | 0.10         | 6.30    | 23.39  | 23.39      | 23.39     |
| 2022-04-07 | 13:47:00 | -7.30       | -17.00  | -78.34    | 395.81   | 63.09   | 1.07        | 1.07         | 9.02         | 44.29        | 55.50    | 8.98       | 0.06         | 5.00    | 23.65  | 23.65      | 23.65     |
| 2022-04-07 | 13:48:00 | -3.60       | -12.13  | -72.41    | 406.69   | 62.89   | 1.07        | 1.07         | 8.68         | 44.19        | 59.20    | 8.98       | 0.09         | 5.00    | 22.58  | 22.58      | 22.58     |
| 2022-04-07 | 13:49:00 | -7.80       | -19.88  | -80.81    | 377.19   | 60.23   | -0.31       | -0.31        | 8.03         | 43.73        | 55.00    | 9.26       | 0.12         | 3.50    | 22.50  | 22.50      | 22.50     |
| 2022-04-07 | 13:50:00 | -4.05       | -15.75  | -72.75    | 390.00   | 67.09   | 0.84        | 0.84         | 7.97         | 43.68        | 57.80    | 9.26       | 0.15         | 3.50    | 22.18  | 22.18      | 22.18     |
| 2022-04-07 | 13:51:00 | -7.35       | -17.88  | -77.81    | 403.88   | 72.64   | 0.84        | 0.84         | 7.94         | 43.75        | 56.40    | 9.26       | 0.04         | 3.50    | 22.55  | 22.55      | 22.55     |
| 2022-04-07 | 13:52:00 | -3.45       | -9.25   | -70.69    | 413.50   | 84.63   | 2.02        | 2.02         | 7.92         | 44.11        | 59.90    | 9.47       | 0.06         | 2.00    | 22.65  | 22.65      | 22.65     |
| 2022-04-07 | 13:53:00 | -13.90      | -23.75  | -90.60    | 388.75   | 89.57   | 0.64        | 0.64         | 7.90         | 44.25        | 62.60    | 9.47       | 0.06         | 2.00    | 22.79  | 22.79      | 22.79     |
| 2022-04-07 | 13:54:00 | -5.90       | -15.75  | -78.00    | 404.50   | 104.22  | 0.64        | 0.64         | 7.89         | 44.13        | 62.50    | 9.47       | 0.06         | 2.00    | 23.34  | 23.34      | 23.34     |
| 2022-04-07 | 13:55:00 | -18.00      | -29.00  | -93.23    | 382.94   | 106.61  | 0.64        | 0.64         | 7.89         | 43.87        | 61.10    | 9.47       | 0.10         | 2.00    | 23.13  | 23.13      | 23.13     |
| 2022-04-07 | 13:56:00 | -9.00       | -18.50  | -79.20    | 402.63   | 99.30   | 0.64        | 0.64         | 7.92         | 43.81        | 60.00    | 9.47       | 0.09         | 2.00    | 23.28  | 23.28      | 23.28     |
| 2022-04-07 | 13:57:00 | -31.45      | -44.88  | -113.85   | 330.69   | 101.15  | -0.46       | -0.46        | 7.83         | 43.52        | 62.40    | 9.47       | 0.12         | 2.00    | 23.10  | 23.10      | 23.10     |
| 2022-04-07 | 13:58:00 | -7.65       | -20.00  | -79.20    | 388.00   | 107.49  | 0.58        | 0.58         | 7.87         | 43.68        | 57.80    | 9.47       | 0.12         | 2.00    | 22.55  | 22.55      | 22.55     |
| 2022-04-07 | 13:59:00 | -29.10      | -48.38  | -115.65   | 343.06   | 111.98  | 0.58        | 0.58         | 7.85         | 43.86        | 68.40    | 9.47       | 0.21         | 2.00    | 22.55  | 22.55      | 22.55     |
| 2022-04-07 | 14:00:00 | -4.10       | -13.88  | -73.31    | 412.31   | 119.53  | 0.58        | 0.58         | 7.96         | 44.17        | 59.80    | 9.25       | 0.12         | 2.00    | 23.65  | 23.65      | 23.65     |
| 2022-04-07 | 14:01:00 | -0.50       | -12.25  | -74.03    | 410.88   | 114.15  | 0.58        | 0.58         | 8.01         | 44.18        | 73.70    | 9.25       | 0.10         | 2.00    | 22.84  | 22.84      | 22.84     |
| 2022-04-07 | 14:02:00 | -7.85       | -17.50  | -77.89    | 398.75   | 110.73  | 0.58        | 0.58         | 8.37         | 44.27        | 57.70    | 9.25       | 0.06         | 3.30    | 22.55  | 22.55      | 22.55     |
| 2022-04-07 | 14:03:00 | -4.25       | -15.88  | -71.25    | 408.75   | 108.66  | 0.58        | 0.58         | 8.37         | 44.29        | 66.10    | 9.25       | 0.06         | 3.30    | 22.39  | 22.39      | 22.39     |
| 2022-04-07 | 14:04:00 | -10.10      | -24.25  | -82.46    | 395.63   | 102.23  | 0.58        | 0.58         | 8.09         | 44.45        | 59.20    | 9.25       | 0.09         | 4.30    | 23.02  | 23.02      | 23.02     |
| 2022-04-07 | 14:05:00 | -5.20       | -16.50  | -76.65    | 408.94   | 105.71  | 0.58        | 0.58         | 8.01         | 44.22        | 66.80    | 9.25       | 0.09         | 4.30    | 23.63  | 23.63      | 23.63     |
| 2022-04-07 | 14:06:00 | -10.30      | -22.63  | -82.73    | 378.25   | 117.41  | 0.58        | 0.58         | 7.98         | 44.05        | 59.20    | 9.25       | 0.11         | 3.30    | 23.39  | 23.39      | 23.39     |
| 2022-04-07 | 14:07:00 | -6.00       | -12.63  | -76.65    | 392.25   | 115.36  | 0.58        | 0.58         | 7.94         | 44.05        | 64.60    | 9.25       | 0.12         | 3.30    | 23.78  | 23.78      | 23.78     |
| 2022-04-07 | 14:08:00 | -6.45       | -17.88  | -78.90    | 403.50   | 100.92  | 0.58        | 0.58         | 7.92         | 44.08        | 63.50    | 9.25       | 0.14         | 3.30    | 22.37  | 22.37      | 22.37     |
| 2022-04-07 | 14:09:00 | -3.40       | -10.00  | -70.05    | 416.13   | 96.90   | 0.58        | 0.58         | 8.01         | 44.18        | 66.50    | 9.25       | 0.14         | 3.30    | 23.65  | 23.65      | 23.65     |
| 2022-04-07 | 14:10:00 | -15.85      | -27.25  | -91.84    | 386.56   | 97.60   | 0.58        | 0.58         | 8.05         | 44.40        | 67.50    | 9.25       | 0.16         | 3.30    | 23.68  | 23.68      | 23.68     |
| 2022-04-07 | 14:11:00 | -6.80       | -14.75  | -76.35    | 406.25   | 99.13   | 0.58        | 0.58         | 8.32         | 44.65        | 60.60    | 9.02       | 0.10         | 4.30    | 22.34  | 22.34      | 22.34     |
| 2022-04-07 | 14:12:00 | -16.60      | -28.88  | -97.05    | 376.56   | 96.54   | 0.58        | 0.58         | 7.98         | 44.19        | 65.50    | 9.25       | 0.19         | 4.30    | 22.37  | 22.37      | 22.37     |
| 2022-04-07 | 14:13:00 | -7.20       | -13.88  | -77.66    | 402.38   | 103.97  | 0.58        | 0.58         | 7.96         | 44.19        | 62.90    | 9.25       | 0.16         | 4.30    | 22.81  | 22.81      | 22.81     |
| 2022-04-07 | 14:14:00 | -27.20      | -42.75  | -113.48   | 331.25   | 118.56  | 0.58        | 0.58         | 7.91         | 44.17        | 68.00    | 9.25       | 0.11         | 4.30    | 23.47  | 23.47      | 23.47     |
| 2022-04-07 | 14:15:00 | -5.45       | -15.38  | -79.31    | 388.38   | 115.57  | 0.58        | 0.58         | 8.28         | 44.43        | 60.60    | 9.25       | 0.12         | 4.30    | 22.47  | 22.47      | 22.47     |
| Max        |          | -0.50       | -9.13   | -67.13    | 418.81   | 119.53  | 2.02        | 2.02         | 9.11         | 44.65        | 73.70    | 9.54       | 0.21         | 6.30    | 23.78  | 23.78      | 23.78     |
| Min        |          | -31.45      | -48.38  | -115.65   | 330.69   | 50.37   | -0.91       | -0.91        | 7.83         | 42.68        | 54.00    | 8.76       | 0.04         | 1.20    | 22.18  | 22.18      | 22.18     |
| Average    |          | -9.58       | -20.52  | -82.69    | 391.01   | 82.94   | 0.49        | 0.49         | 8.38         | 43.97        | 62.00    | 9.19       | 0.10         | 3.63    | 22.99  | 22.99      | 22.99     |
| Variance   |          | 60.02       | 89.21   | 159.76    | 505.86   | 546.46  | 0.27        | 0.27         | 0.21         | 0.14         | 17.91    | 0.04       | 0.00         | 1.66    | 0.25   | 0.25</     |           |

| Date       | Time     | Incinerator |         | SDA Inlet |        | BH Inlet |         | BH dP |         | CO    |              | HCl   |              | CO2   |              | H2O   |              | THC   |             | Main O2 |              | Opacity |              | SO2   |        | PAC   |           |       |           |
|------------|----------|-------------|---------|-----------|--------|----------|---------|-------|---------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|-------------|---------|--------------|---------|--------------|-------|--------|-------|-----------|-------|-----------|
|            |          | mmH2O       | PT-242A | mmH2O     | PT-249 | mmH2O    | PDT-615 | mmH2O | PDT-622 | mmH2O | AT-213A-INEW | mmH2O | AT-213A-INEW | mmH2O | AT-213A-INEW | mmH2O | AT-213A-INEW | mmH2O | AT-213B-INE | mmH2O   | AT-213C-INEW | mmH2O   | AT-261A-INEW | mmH2O | AT-263 | mmH2O | T-259-INE | mmH2O | T-264-INE |
| 2022-04-07 | 14:28:00 | -5.85       | -16.63  | -77.18    | 403.13 | 86.02    | 1.11    | 7.99  | 44.05   | 57.80 | 9.24         | 0.06  | 2.60         | 23.39 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:29:00 | -8.70       | -44.00  | -112.31   | 341.44 | 85.90    | 1.11    | 7.87  | 43.96   | 60.70 | 9.54         | 0.10  | 2.60         | 23.39 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:30:00 | -9.95       | -19.63  | -82.31    | 402.13 | 89.64    | 1.11    | 7.84  | 43.99   | 55.20 | 9.54         | 0.10  | 2.60         | 23.47 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:31:00 | -28.40      | -42.88  | -115.50   | 392.25 | 89.38    | 1.11    | 7.74  | 43.32   | 60.60 | 9.77         | 0.14  | 1.30         | 23.65 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:32:00 | -7.75       | -21.88  | -79.61    | 382.81 | 90.97    | -0.06   | 7.76  | 43.26   | 56.40 | 9.77         | 0.10  | 1.30         | 23.70 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:33:00 | -6.35       | -15.00  | -83.96    | 377.44 | 95.11    | -0.06   | 7.81  | 43.31   | 63.50 | 9.77         | 0.14  | 1.30         | 23.63 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:34:00 | -5.95       | -17.63  | -77.74    | 412.44 | 95.43    | 0.99    | 7.96  | 43.71   | 55.60 | 9.53         | 0.10  | 1.30         | 22.68 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:35:00 | -1.95       | -15.00  | -70.28    | 422.31 | 90.93    | 0.99    | 7.98  | 43.75   | 66.60 | 9.53         | 0.04  | 2.60         | 22.92 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:36:00 | -8.85       | -18.63  | -82.50    | 398.06 | 91.09    | 0.99    | 8.64  | 43.88   | 57.60 | 9.30         | 0.02  | 3.60         | 22.50 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:37:00 | -6.15       | -15.38  | -77.03    | 411.56 | 87.80    | 0.99    | 8.67  | 43.91   | 64.30 | 9.30         | 0.06  | 3.60         | 23.18 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:38:00 | -10.25      | -18.63  | -87.11    | 395.00 | 75.02    | -0.09   | 8.61  | 43.76   | 58.90 | 9.30         | 0.14  | 3.60         | 23.60 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:39:00 | -4.40       | -12.88  | -75.86    | 407.25 | 64.10    | -0.09   | 8.33  | 43.71   | 61.10 | 9.30         | 0.14  | 4.70         | 22.34 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:40:00 | -9.60       | -20.63  | -86.21    | 376.69 | 63.18    | -0.09   | 8.36  | 43.69   | 61.30 | 9.30         | 0.07  | 4.70         | 23.68 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:41:00 | -5.10       | -17.13  | -75.34    | 393.88 | 61.63    | -0.09   | 8.68  | 43.75   | 60.10 | 9.30         | 0.12  | 4.70         | 23.57 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:42:00 | -9.05       | -21.13  | -84.04    | 401.25 | 59.99    | -0.09   | 8.34  | 43.85   | 64.20 | 9.30         | 0.06  | 6.00         | 22.44 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:43:00 | -1.15       | -10.13  | -69.26    | 416.75 | 60.99    | 1.02    | 8.46  | 44.25   | 63.30 | 9.06         | 0.06  | 6.00         | 22.44 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:44:00 | -16.55      | -28.38  | -100.09   | 367.88 | 63.99    | 1.02    | 8.78  | 44.26   | 67.70 | 9.06         | 0.12  | 6.00         | 22.37 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:45:00 | -3.15       | -15.75  | -75.79    | 403.69 | 60.01    | -0.31   | 9.11  | 44.51   | 59.50 | 8.99         | 0.10  | 7.10         | 22.79 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:46:00 | -23.55      | -39.00  | -108.41   | 335.69 | 53.54    | -1.36   | 9.03  | 44.38   | 66.80 | 8.99         | 0.10  | 7.10         | 22.58 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:47:00 | -4.95       | -15.00  | -77.18    | 399.94 | 53.10    | -1.36   | 9.02  | 44.23   | 57.70 | 8.99         | 0.06  | 7.10         | 22.79 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:48:00 | -18.05      | -36.38  | -102.38   | 343.81 | 54.62    | -0.08   | 8.71  | 44.16   | 65.30 | 8.99         | 0.06  | 7.10         | 22.34 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:49:00 | -4.55       | -16.00  | -76.50    | 383.25 | 55.75    | -0.08   | 8.76  | 44.35   | 56.40 | 8.99         | 0.09  | 7.10         | 22.71 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:50:00 | -0.75       | -12.25  | -68.14    | 397.31 | 53.51    | -0.08   | 8.71  | 44.30   | 64.00 | 8.99         | 0.14  | 6.00         | 22.44 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:51:00 | -3.50       | -14.00  | -75.49    | 412.25 | 53.41    | 1.61    | 9.07  | 44.55   | 57.70 | 8.99         | 0.06  | 7.50         | 22.31 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:52:00 | 1.90        | -7.88   | -65.18    | 420.63 | 52.68    | 1.61    | 9.10  | 44.52   | 68.20 | 8.99         | 0.06  | 7.50         | 22.60 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:53:00 | -8.20       | -17.00  | -80.63    | 396.94 | 53.91    | 0.21    | 9.19  | 44.64   | 61.70 | 8.99         | 0.06  | 7.50         | 23.47 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:54:00 | -1.90       | -7.38   | -72.56    | 410.63 | 55.41    | 0.21    | 9.17  | 44.61   | 61.50 | 8.99         | 0.06  | 9.20         | 23.28 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:55:00 | -8.30       | -18.75  | -83.21    | 392.44 | 53.89    | 1.50    | 9.02  | 44.26   | 59.10 | 8.99         | 0.14  | 7.50         | 23.60 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:56:00 | -3.40       | -14.00  | -74.40    | 406.69 | 51.89    | 1.65    | 8.36  | 43.77   | 59.80 | 8.99         | 0.12  | 5.90         | 22.76 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:57:00 | -8.25       | -20.88  | -82.91    | 371.69 | 51.89    | 1.65    | 8.29  | 43.71   | 61.00 | 9.27         | 0.12  | 4.90         | 22.39 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:58:00 | -5.00       | -14.50  | -75.90    | 391.75 | 53.06    | 0.35    | 8.59  | 44.05   | 60.80 | 9.27         | 0.10  | 3.70         | 23.55 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 14:59:00 | -8.55       | -18.00  | -85.24    | 397.88 | 53.89    | -0.69   | 8.33  | 44.04   | 64.10 | 9.27         | 0.22  | 3.70         | 22.73 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:00:00 | -1.30       | -9.00   | -71.14    | 414.31 | 59.88    | -0.69   | 8.37  | 44.14   | 61.80 | 9.27         | 0.14  | 4.80         | 22.94 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:01:00 | -24.85      | -37.63  | -106.13   | 340.00 | 63.32    | 0.62    | 8.40  | 44.03   | 66.50 | 9.07         | 0.14  | 4.80         | 23.65 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:02:00 | -4.15       | -14.75  | -74.85    | 404.19 | 62.82    | 0.62    | 8.72  | 44.19   | 57.70 | 9.07         | 0.09  | 4.80         | 23.18 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:03:00 | -22.20      | -38.88  | -106.76   | 338.25 | 60.73    | -0.40   | 8.63  | 44.04   | 63.40 | 9.07         | 0.10  | 4.80         | 22.37 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:04:00 | -5.20       | -17.13  | -78.71    | 401.31 | 60.20    | -0.40   | 8.64  | 44.05   | 56.00 | 9.07         | 0.14  | 4.80         | 22.81 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:05:00 | -3.45       | -10.25  | -77.14    | 394.38 | 59.97    | 0.77    | 8.29  | 43.88   | 62.70 | 9.27         | 0.16  | 4.80         | 22.50 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:06:00 | -4.25       | -14.75  | -79.50    | 382.31 | 62.31    | 0.77    | 8.01  | 43.84   | 55.60 | 9.27         | 0.10  | 4.80         | 23.57 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:07:00 | -1.05       | -12.63  | -70.13    | 392.56 | 64.01    | 0.77    | 8.05  | 43.77   | 62.90 | 9.27         | 0.12  | 3.80         | 23.60 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:08:00 | -1.35       | -12.88  | -71.81    | 404.56 | 65.04    | 0.77    | 8.67  | 43.96   | 57.80 | 9.06         | 0.07  | 3.80         | 22.21 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:09:00 | -1.30       | -9.75   | -66.83    | 416.88 | 62.44    | 0.77    | 8.71  | 44.25   | 69.00 | 9.06         | 0.06  | 4.80         | 23.55 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:10:00 | -7.75       | -15.00  | -78.60    | 394.19 | 65.03    | 0.77    | 8.82  | 44.63   | 60.60 | 9.06         | 0.09  | 5.90         | 22.81 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:11:00 | -1.80       | -10.88  | -72.19    | 407.94 | 65.36    | 0.77    | 8.80  | 44.45   | 61.30 | 9.06         | 0.02  | 5.90         | 22.44 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:12:00 | -8.90       | -21.63  | -83.51    | 389.75 | 60.94    | -0.43   | 8.64  | 44.15   | 59.30 | 9.06         | 0.10  | 4.50         | 23.23 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:13:00 | -2.35       | -12.13  | -73.39    | 402.63 | 59.64    | 0.61    | 8.32  | 44.32   | 61.10 | 9.06         | 0.09  | 4.50         | 22.94 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:14:00 | -9.70       | -20.00  | -86.66    | 369.44 | 61.17    | 0.61    | 8.02  | 44.10   | 62.20 | 9.28         | 0.06  | 4.50         | 22.76 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:15:00 | -3.60       | -14.00  | -73.31    | 386.56 | 67.14    | -0.40   | 8.32  | 44.10   | 60.00 | 9.28         | 0.10  | 4.50         | 22.79 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:16:00 | -11.30      | -24.63  | -88.39    | 382.63 | 65.63    | -0.40   | 8.33  | 44.25   | 64.90 | 9.28         | 0.22  | 4.50         | 23.65 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:17:00 | -2.70       | -12.75  | -70.76    | 412.25 | 62.27    | 0.65    | 8.42  | 44.49   | 62.10 | 9.07         | 0.05  | 4.50         | 23.68 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:18:00 | -26.30      | -44.13  | -112.28   | 390.19 | 63.44    | 0.65    | 8.41  | 44.49   | 66.90 | 9.07         | 0.14  | 4.50         | 23.47 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:19:00 | -4.60       | -17.38  | -77.14    | 402.63 | 64.05    | -0.65   | 8.73  | 44.75   | 57.00 | 9.07         | 0.10  | 4.50         | 23.26 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:20:00 | -20.65      | -34.38  | -102.49   | 348.19 | 55.80    | -0.65   | 8.38  | 44.58   | 62.50 | 9.07         | 0.07  | 4.50         | 22.31 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:21:00 | -6.40       | -15.00  | -80.78    | 398.50 | 54.08    | -0.65   | 8.37  | 44.52   | 54.20 | 9.07         | 0.12  | 4.50         | 23.65 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:22:00 | -3.15       | -12.63  | -72.30    | 409.38 | 56.96    | 0.88    | 8.29  | 44.07   | 62.70 | 9.07         | 0.10  | 3.00         | 23.52 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:23:00 | -6.10       | -16.00  | -77.29    | 381.88 | 61.06    | 0.88    | 8.28  | 43.99   | 56.70 | 9.07         | 0.10  | 3.00         | 23.42 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:24:00 | -1.95       | -12.63  | -70.35    | 393.06 | 67.28    | 0.88    | 8.33  | 44.23   | 64.20 | 9.07         | 0.10  | 3.00         | 22.73 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:25:00 | -2.45       | -16.63  | -74.10    | 408.31 | 70.95    | 0.88    | 8.70  | 44.53   | 57.60 | 9.07         | 0.09  | 3.00         | 22.44 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:26:00 | 0.80        | -9.38   | -65.33    | 418.94 | 70.83    | 0.88    | 8.71  | 44.59   | 63.50 | 9.07         | 0.10  | 4.10         | 22.81 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:27:00 | -9.80       | -21.63  | -83.21    | 395.13 | 61.31    | 0.88    | 8.70  | 44.52   | 61.90 | 9.07         | 0.05  | 4.10         | 23.26 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| 2022-04-07 | 15:28:00 | -3.05       | -13.25  | -73.09    | 408.44 | 58.60    | 0.88    | 8.71  | 44.54   | 60.80 | 9.07         | 0.07  | 4.10         | 23.70 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| Max        |          | 1.90        | -7.38   | -65.18    | 422.31 | 95.43    | 1.65    | 9.19  | 44.75   | 69.00 | 9.77         | 0.22  | 9.20         | 23.70 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| Min        |          | -28.70      | -44.13  | -115.50   | 390.19 | 51.89    | -1.36   | 7.74  | 43.26   | 54.20 | 8.79         | 0.02  | 1.30         | 22.21 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| Average    |          | -7.66       | -18.75  | -81.28    | 390.75 | 65.06    | 0.42    | 8.49  | 44.13   | 61.17 | 9.18         | 0.10  | 4.67         | 23.03 |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |
| Variance   |          | 53.94       | 84.30   | 152.13    | 571.97 | 149.84   | 0.54    | 0.14  | 0.12    | 12.44 | 0.04         | 0.00  | 3.11         | 0.25  |              |       |              |       |             |         |              |         |              |       |        |       |           |       |           |

| Date       | Time     | Rich   |         | Lean     |         | Alkaline |         | TDU Flow |          | SCFM     |          | Leachate |          | Primary |       | Secondary  |       | Stack Velocity |            | Stack Flow |           | Primary |           | Secondary |           | Quench |           | SOA    |  | Stack |
|------------|----------|--------|---------|----------|---------|----------|---------|----------|----------|----------|----------|----------|----------|---------|-------|------------|-------|----------------|------------|------------|-----------|---------|-----------|-----------|-----------|--------|-----------|--------|--|-------|
|            |          | FT-229 | FT-219C | LPM      | LPM     | FT-223   | PV-207  | FT-313B  | FT-313   | FT-313   | PV-211   | PV-236   | m3/h     | m3/h    | m3/h  | FT-260-VEL | m/s   | Rm3/h          | FT-260-RRM | TE-240     | Degrees C | TE-241  | Degrees C | TE-203    | Degrees C | TE-204 | Degrees C | TE-258 |  |       |
| 2022-05-25 | 10:04:00 | 33.15  | 6.805   | 171.5175 | 197.82  | 4.6675   | 280.05  | 21.975   | 18581.25 | 11465.1  | 31.81308 | 135598.6 | 1350.063 | 1139.5  | 500.1 | 191        | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:05:00 | 33.165 | 6.845   | 171.5175 | 197.82  | 4.6675   | 279.975 | 21.975   | 18581.25 | 11465.1  | 31.81308 | 135598.6 | 1350.063 | 1139.5  | 500.1 | 191        | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:06:00 | 33.105 | 7.4     | 171.7087 | 198.225 | 4.8225   | 289.35  | 20.9625  | 18350    | 11471.96 | 31.28958 | 135711.6 | 1357.938 | 1140    | 497.4 | 189.5      | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:07:00 | 33     | 6.865   | 171.3713 | 197.145 | 4.805    | 288.3   | 20.9625  | 19118.75 | 11589.93 | 32.79028 | 140254.1 | 1361.688 | 1140.9  | 495.7 | 188.5      | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:08:00 | 33.18  | 8.23    | 171.4725 | 197.415 | 4.96125  | 297.675 | 20.9625  | 18581.25 | 11455.1  | 31.68031 | 135535.2 | 1353.438 | 1139.7  | 495.4 | 188        | 182.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:09:00 | 33.85  | 7.59    | 172.088  | 198.18  | 4.845    | 290.7   | 19.675   | 18600    | 11331.31 | 33.81699 | 145088.7 | 1360.438 | 1139.6  | 494.6 | 187.5      | 182.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:10:00 | 33.06  | 8.005   | 171.3762 | 197.73  | 4.915    | 294.9   | 28.275   | 18631.25 | 11421.39 | 31.76928 | 136185.7 | 1351.438 | 1137.9  | 494.9 | 187.5      | 182.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:11:00 | 33.09  | 7.855   | 171.6525 | 197.955 | 5.0175   | 301.05  | 29.2875  | 18668.75 | 11415.78 | 31.78996 | 136329.9 | 1349.188 | 1137.4  | 495.5 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:12:00 | 33.255 | 8.38    | 172.2262 | 198.405 | 4.95375  | 297.225 | 29.2875  | 18406.25 | 11370.83 | 31.84535 | 136601.8 | 1338.3   | 1138.3  | 495.7 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:13:00 | 32.94  | 7.575   | 171.4725 | 197.64  | 4.86375  | 291.825 | 29.2875  | 18406.25 | 11370.83 | 31.84535 | 136601.8 | 1338.3   | 1138.3  | 495.7 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:14:00 | 33.075 | 7.49    | 172.88   | 198.225 | 4.915    | 294.9   | 29.2875  | 18518.75 | 11488.81 | 31.67551 | 135843.4 | 1348.313 | 1136.6  | 496   | 188.5      | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:15:00 | 33.275 | 7.26    | 171.7087 | 197.775 | 4.87375  | 292.425 | 29.2875  | 18206.25 | 11376.45 | 31.30553 | 134315.8 | 1356.938 | 1137.4  | 495.4 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:16:00 | 33.005 | 8.83    | 172.1813 | 198.18  | 4.795    | 287.7   | 29.2875  | 18750    | 11449.48 | 31.65865 | 135801   | 1351.313 | 1137.3  | 495.2 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:17:00 | 33.195 | 7.875   | 171.8438 | 198     | 4.77125  | 286.275 | 29.2875  | 19043.75 | 11505.66 | 32.20286 | 138060.8 | 1346.438 | 1137.4  | 495.5 | 188        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:18:00 | 33.3   | 6.13    | 172.08   | 197.865 | 4.83375  | 290.025 | 29.2875  | 18668.75 | 11376.45 | 31.39022 | 134531.6 | 1348.813 | 1136.1  | 496.3 | 188.5      | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:19:00 | 33.24  | 7.35    | 172.1362 | 196.65  | 4.79375  | 287.625 | 29.2875  | 18925    | 11494.43 | 31.71669 | 135945.4 | 1338.938 | 1138.6  | 498.1 | 190        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:20:00 | 33.195 | 7.59    | 172.4175 | 198.36  | 4.8325   | 289.95  | 29.2875  | 18431.25 | 11219.15 | 31.18049 | 133456.4 | 1343.313 | 1138.3  | 499.9 | 191        | 181.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:21:00 | 33.315 | 7.72    | 171.4725 | 197.28  | 4.82     | 289.2   | 29.2875  | 19006.25 | 11505.66 | 31.12601 | 133107.6 | 1343.063 | 1140.1  | 501.7 | 192        | 182.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:22:00 | 33.42  | 7.155   | 172.3163 | 198.27  | 4.83375  | 290.025 | 29.2875  | 18143.75 | 11421.39 | 30.63709 | 130830.3 | 1349.938 | 1139.9  | 503.4 | 193        | 183.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:23:00 | 33.465 | 7.655   | 171.6075 | 198.72  | 4.795    | 287.7   | 29.2875  | 18800    | 11544.99 | 32.35966 | 138079.2 | 1353.188 | 1142.4  | 504.7 | 193.5      | 183.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:24:00 | 33.18  | 7.78    | 172.19   | 197.865 | 4.7875   | 287.25  | 29.2875  | 18306.25 | 11365.21 | 31.16689 | 132815.3 | 1349.188 | 1141.3  | 506.7 | 194        | 184.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:25:00 | 33.12  | 8.015   | 171.6525 | 197.64  | 4.82375  | 289.425 | 29.2875  | 18300    | 11348.36 | 33.88815 | 142094.7 | 1350.813 | 1142.2  | 508   | 194.5      | 184.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:26:00 | 33.42  | 7.08    | 172.1362 | 196.18  | 4.87125  | 292.275 | 29.2875  | 18481.25 | 11331.51 | 31.92496 | 135735.6 | 1347.063 | 1139.2  | 509.7 | 195.5      | 184.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:27:00 | 33.09  | 8.14    | 172.1362 | 197.595 | 4.82     | 289.2   | 29.2875  | 18243.75 | 11331.51 | 31.07048 | 132058.2 | 1347.938 | 1141.3  | 510.9 | 196.5      | 185.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:28:00 | 33.435 | 7.82    | 172.935  | 198.27  | 4.80875  | 288.525 | 29.2875  | 18437.5  | 11438.25 | 32.04433 | 135795.5 | 1347.938 | 1140.8  | 511   | 197        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:29:00 | 32.235 | 7.805   | 172.6087 | 197.64  | 4.85375  | 291.275 | 29.2875  | 18731.25 | 11438.25 | 32.04433 | 135795.5 | 1347.938 | 1140.8  | 511   | 197        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:30:00 | 33.315 | 7.675   | 172.035  | 197.37  | 4.845    | 290.7   | 29.2875  | 18300    | 11342.74 | 31.62665 | 133871.2 | 1348.313 | 1142.4  | 513.2 | 197.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:31:00 | 33.555 | 7.32    | 172.4175 | 198.135 | 4.95     | 297     | 29.2875  | 18933.75 | 11382.07 | 31.62665 | 133871.2 | 1348.313 | 1142.4  | 513.2 | 197.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:32:00 | 33.39  | 7.68    | 171.4162 | 198.09  | 4.95     | 297     | 29.2875  | 17900    | 11320.27 | 30.98833 | 131315.8 | 1356.563 | 1143    | 512.4 | 197.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:33:00 | 32.935 | 7.805   | 172.6087 | 197.64  | 4.85375  | 291.275 | 29.2875  | 18731.25 | 11438.25 | 32.04433 | 135795.5 | 1347.938 | 1140.8  | 511   | 197        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:34:00 | 32.205 | 7.095   | 171.945  | 198.495 | 4.8125   | 288.75  | 29.2875  | 18137.5  | 11432.63 | 31.19341 | 133106.8 | 1343.313 | 1140.8  | 510   | 196.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:35:00 | 32.25  | 7.275   | 171.7087 | 197.91  | 4.915    | 294.9   | 29.2875  | 18718.75 | 11297.8  | 32.15119 | 136203.3 | 1335.813 | 1140.1  | 509   | 196        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:36:00 | 31.935 | 6.99    | 171.945  | 197.685 | 4.845    | 290.7   | 29.2875  | 18493.75 | 11342.74 | 31.30665 | 132615   | 1334.063 | 1136.8  | 508.5 | 196        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:37:00 | 31.785 | 7.375   | 172.035  | 197.55  | 4.8125   | 274.875 | 29.2875  | 18981.25 | 11460.72 | 32.10866 | 136994.6 | 1325.313 | 1134    | 507.7 | 195.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:38:00 | 32.775 | 7.08    | 170.5162 | 196.875 | 4.14375  | 248.625 | 29.2875  | 18550    | 11320.27 | 31.86621 | 132930.6 | 1324.188 | 1130.8  | 506.9 | 195.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:39:00 | 32.865 | 7.865   | 171.7087 | 197.415 | 4.22     | 253.2   | 29.2875  | 19056.25 | 11387.69 | 31.67675 | 134327.7 | 1326.938 | 1128.9  | 506.2 | 195        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:40:00 | 33.105 | 7.615   | 172.2262 | 197.82  | 4.25625  | 255.375 | 29.2875  | 18287.5  | 11269.71 | 31.18359 | 132394.7 | 1332.063 | 1128.2  | 505.4 | 194.5      | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:41:00 | 32.85  | 7.815   | 171.9    | 197.82  | 4.26125  | 255.675 | 28.275   | 18675    | 11449.48 | 34.29866 | 145827.8 | 1338.688 | 1128.7  | 504.1 | 193.5      | 185.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:42:00 | 32.925 | 6.98    | 172.08   | 197.01  | 4.22625  | 251.575 | 28.275   | 18393.75 | 11224.76 | 31.52768 | 133887.3 | 1332.438 | 1125    | 503.7 | 193        | 185.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:43:00 | 32.505 | 7.065   | 171.6525 | 196.74  | 4.25875  | 255.525 | 28.275   | 18362.5  | 11359.6  | 32.77599 | 139428.6 | 1334.813 | 1122.4  | 502.9 | 192        | 185.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:44:00 | 34.53  | 7.745   | 172.035  | 196.74  | 4.19125  | 251.475 | 28.275   | 18625    | 11325.89 | 32.12395 | 136774.2 | 1323.063 | 1119    | 502.5 | 191.5      | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:45:00 | 34.575 | 7.58    | 171.7987 | 198.045 | 4.03625  | 243.175 | 28.275   | 18387.5  | 11309.03 | 31.75274 | 135327.8 | 1327.063 | 1120.6  | 502.1 | 191        | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:46:00 | 34.725 | 7.675   | 172.6087 | 197.865 | 4.56625  | 273.975 | 28.275   | 18693.75 | 11500.05 | 31.91277 | 136968.6 | 1324.938 | 1120.5  | 501.8 | 191        | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:47:00 | 35.94  | 8.215   | 170.9487 | 198.585 | 4.745    | 284.7   | 28.275   | 18443.75 | 11393.3  | 31.9023  | 136187.2 | 1340.563 | 1122.8  | 501.8 | 191        | 184.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:48:00 | 35.49  | 7.37    | 171.2813 | 197.145 | 4.79875  | 287.925 | 19.9875  | 18500    | 11331.51 | 31.40829 | 134567.1 | 1342.563 | 1124.9  | 502.2 | 191        | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:49:00 | 34.35  | 7.83    | 171.5625 | 197.91  | 4.79625  | 287.775 | 19.9875  | 18156.25 | 11331.51 | 31.24876 | 133397.3 | 1350.813 | 1129.2  | 503   | 191.5      | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:50:00 | 34.56  | 6.9     | 167.0175 | 197.595 | 4.74875  | 284.925 | 19.9875  | 19381.25 | 11443.87 | 31.77908 | 135558.6 | 1336.563 | 1128.2  | 503.8 | 192        | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:51:00 | 35.7   | 7.555   | 167.1525 | 198     | 4.805    | 288.3   | 19.9875  | 18006.25 | 11438.25 | 31.99656 | 136299.9 | 1331.438 | 1131    | 504.9 | 192.5      | 183.8 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:52:00 | 35.91  | 7.595   | 166.4437 | 199.125 | 4.8      | 288     | 19.9875  | 19481.25 | 11533.75 | 32.40447 | 138057.7 | 1328.313 | 1134.7  | 506.6 | 193        | 184.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:53:00 | 35.82  | 7.19    | 166.4437 | 199.125 | 4.815    | 288.9   | 19.9875  | 19043.75 | 11325.89 | 31.53766 | 134235.2 | 1331.688 | 1135.7  | 508.4 | 194.5      | 184.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:54:00 | 35.55  | 7.26    | 166.0162 | 197.955 | 4.83375  | 290.025 | 19.9875  | 19700    | 11455.1  | 32.08229 | 136329.9 | 1331.188 | 1137.1  | 509.2 | 195        | 185.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:55:00 | 35.685 | 7.145   | 166.4437 | 198.495 | 4.9      | 294     | 19.9875  | 18900    | 11241.62 | 31.63984 | 134059.4 | 1330.188 | 1137.9  | 510.4 | 196        | 185.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:56:00 | 35.73  | 7.03    | 166.3537 | 198.225 | 4.855    | 291.3   | 19.9875  | 18700    | 11477.57 | 33.07998 | 140407   | 1336.063 | 1139.6  | 511   | 196.5      | 185.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:57:00 | 35.835 | 7.725   | 166.59   | 198.09  | 4.88     | 292.8   | 19.9875  | 18400    | 11241.62 | 31.52883 | 133641.3 | 1340.688 | 1140.4  | 511.6 | 197        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:58:00 | 35.88  | 8.035   | 165.5437 | 197.505 | 4.74875  | 284.925 | 19.9875  | 18956.25 | 11247.24 | 34.50407 | 146237.6 | 1347.188 | 1144.3  | 511.9 | 197        | 186.9 |                |            |            |           |         |           |           |           |        |           |        |  |       |
| 2022-05-25 | 10:59:00 | 36.21  | 7.995   | 165.78   | 198.45  | 4.7525   | 285.15  | 19.9875  | 18681.25 | 112      |          |          |          |         |       |            |       |                |            |            |           |         |           |           |           |        |           |        |  |       |







| Date       | Time     | Rich   |         | Emulsion |         | Lean    |         | Alkaline |        | TDU Flow |          | Leachate |          | Primary |            | Secondary       |       | Stack Velocity |        | Stack Flow |        | Primary |           | Secondary |           | Quench |           | SDA    |           | Stack  |       |       |       |       |       |       |
|------------|----------|--------|---------|----------|---------|---------|---------|----------|--------|----------|----------|----------|----------|---------|------------|-----------------|-------|----------------|--------|------------|--------|---------|-----------|-----------|-----------|--------|-----------|--------|-----------|--------|-------|-------|-------|-------|-------|-------|
|            |          | FT-229 | FT-219C | FT-223   | PV-207  | FT-313B | FT-313  | PV-211   | PV-236 | FT-236   | PV-209   | m3/h     | m3/h     | m3/h    | FT-260-VEL | FT-260-VELOCITY | Rm3/s | Degrees C      | TE-240 | TE-241     | TE-203 | TE-204  | Degrees C | TE-204    | Degrees C | TE-204 | Degrees C | TE-204 | Degrees C | TE-258 |       |       |       |       |       |       |
| 2022-05-25 | 14:00:00 | 34.245 | 6.895   | 166.1087 | 203.85  | 4.8025  | 288.15  | 19.95    | 19.95  | 19275    | 11331.51 | 133085   | 3329.563 | 1150.6  | 506.3      | 189             | 182.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 |       |       |       |       |
| 2022-05-25 | 14:01:00 | 34.308 | 7.095   | 166.1175 | 203.085 | 4.74125 | 284.475 | 19.95    | 19.95  | 19125    | 11337.12 | 3329.563 | 1149.3   | 506.3   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 |       |       |       |       |
| 2022-05-25 | 14:02:00 | 34.92  | 6.935   | 166.0162 | 202.815 | 4.87625 | 291.475 | 19.95    | 19.95  | 18662.5  | 11169.38 | 33171.25 | 1147.8   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 |       |       |       |
| 2022-05-25 | 14:03:00 | 34.755 | 7.67    | 164.9363 | 202.365 | 4.87625 | 291.475 | 19.95    | 19.95  | 19125    | 11348.38 | 3329.563 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 |       |       |       |
| 2022-05-25 | 14:04:00 | 34.965 | 6.89    | 164.9812 | 203.445 | 4.80775 | 288.225 | 19.95    | 19.95  | 18800    | 11196.67 | 33168.49 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 |       |       |
| 2022-05-25 | 14:05:00 | 34.95  | 7.825   | 164.6437 | 203.04  | 4.8     | 282.2   | 19.95    | 19.95  | 19443.75 | 11275.33 | 32.27186 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 |       |       |
| 2022-05-25 | 14:06:00 | 34.89  | 6.925   | 167.6813 | 203.04  | 4.885   | 291.1   | 19.95    | 19.95  | 18887.5  | 11297.8  | 33.4524  | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 |       |       |
| 2022-05-25 | 14:07:00 | 34.95  | 7.06    | 166.1625 | 203.355 | 4.81625 | 289.75  | 19.95    | 19.95  | 19318.75 | 11342.74 | 33.59966 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 |       |       |
| 2022-05-25 | 14:08:00 | 34.95  | 7.545   | 166.5    | 202.995 | 4.8     | 292.2   | 19.95    | 19.95  | 19093.75 | 11252.85 | 33.2488  | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 | 181.8 |       |
| 2022-05-25 | 14:09:00 | 35.055 | 6.63    | 165.68   | 203.04  | 4.8425  | 290.55  | 19.95    | 19.95  | 19837.5  | 11213.53 | 33.24948 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 | 181.8 |       |
| 2022-05-25 | 14:10:00 | 35.115 | 7.055   | 166.3537 | 203.04  | 4.87875 | 292.725 | 19.95    | 19.95  | 19168.75 | 11415.78 | 33.80032 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 | 181.8 |       |
| 2022-05-25 | 14:11:00 | 35.115 | 7.055   | 166.3537 | 203.04  | 4.87875 | 292.725 | 19.95    | 19.95  | 19168.75 | 11415.78 | 33.80032 | 1152.4   | 505.9   | 188.5      | 181.8           | 181.8 | 181.8          | 181.8  | 181.8      | 181.8  | 181.8   | 181.8     | 181.8     | 181.8     | 181.8  | 181.8     | 181.8  | 181.8     | 181.8  | 181.8 | 181.8 | 181.8 | 181.8 | 181.8 |       |
| 2022-05-25 | 14:12:00 | 35.175 | 7.35    | 165.4988 | 203.355 | 4.97375 | 298.425 | 19.95    | 19.95  | 19000    | 11196.67 | 31.57322 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 |       |       |
| 2022-05-25 | 14:13:00 | 35.04  | 7.635   | 165.4988 | 203.31  | 5.02125 | 301.275 | 19.95    | 19.95  | 18631.25 | 11126.71 | 30.98454 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:14:00 | 35.16  | 7.86    | 171.4162 | 203.715 | 4.94125 | 296.475 | 19.95    | 19.95  | 18666.75 | 11168.58 | 31.67302 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:15:00 | 34.95  | 7.08    | 166.59   | 202.455 | 4.8275  | 289.65  | 19.95    | 19.95  | 18837.5  | 11207.91 | 30.8819  | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:16:00 | 34.95  | 7.445   | 167.1525 | 203.355 | 4.8575  | 291.45  | 19.95    | 19.95  | 19112.5  | 11303.42 | 32.07204 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:17:00 | 34.965 | 7.28    | 166.2525 | 203.715 | 4.86625 | 291.975 | 19.95    | 19.95  | 19100    | 11258.47 | 31.83815 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2022-05-25 | 14:18:00 | 34.86  | 7.455   | 166.8713 | 203.31  | 4.80625 | 288.375 | 19.95    | 19.95  | 18893.75 | 11269.71 | 32.02536 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:19:00 | 35.145 | 7.555   | 166.635  | 203.355 | 4.82125 | 289.275 | 19.95    | 19.95  | 19087.5  | 11376.45 | 32.39675 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2022-05-25 | 14:20:00 | 34.905 | 7.2     | 166.7362 | 202.68  | 4.80125 | 288.075 | 19.95    | 19.95  | 19082.5  | 11427.74 | 32.0923  | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:21:00 | 34.98  | 7.715   | 166.1175 | 203.535 | 4.8     | 288     | 19.95    | 19.95  | 19250    | 11346.36 | 32.14759 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:22:00 | 34.89  | 7.3     | 166.68   | 204.12  | 4.7975  | 287.85  | 19.95    | 19.95  | 18825    | 11236    | 31.2227  | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:23:00 | 34.92  | 7.1     | 165.9713 | 203.85  | 4.91375 | 294.825 | 19.95    | 19.95  | 19450    | 11320.27 | 31.73674 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:24:00 | 35.01  | 7.61    | 166.545  | 203.355 | 4.8675  | 292.05  | 19.95    | 19.95  | 18843.75 | 11215.53 | 31.63001 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:25:00 | 34.83  | 7.785   | 165.4988 | 203.31  | 4.8775  | 292.65  | 19.95    | 19.95  | 19225    | 11314.65 | 33.92313 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |       |
| 2022-05-25 | 14:26:00 | 34.965 | 7.28    | 166.2525 | 203.715 | 4.86625 | 291.975 | 19.95    | 19.95  | 19100    | 11258.47 | 31.83815 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2022-05-25 | 14:27:00 | 34.695 | 7.815   | 166.4437 | 203.265 | 4.96875 | 298.125 | 19.95    | 19.95  | 18731.25 | 11365.21 | 31.74735 | 1152.4   | 506.6   | 185.5      | 180.8           | 180.8 | 180.8          | 180.8  | 180.8      | 180.8  | 180.8   | 180.8     | 180.8     | 180.8     | 180.8  | 180.8     | 180.8  | 180.8     | 180.8  | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2022-05-25 | 14:28:00 |        |         |          |         |         |         |          |        |          |          |          |          |         |            |                 |       |                |        |            |        |         |           |           |           |        |           |        |           |        |       |       |       |       |       |       |

| Date       | Rich          |                | Emulsion       |               | Lean          |                | Alkaline    |                 | TDU Flow       |               | Leachate      |                | Primary        |                   | Secondary         |                    | Stack Velocity      |                     | Stack Flow        |                    | Primary             |                     | Secondary         |                    | Quench              |                     | SDA               |                    | Stack               |                     |                   |                    |           |
|------------|---------------|----------------|----------------|---------------|---------------|----------------|-------------|-----------------|----------------|---------------|---------------|----------------|----------------|-------------------|-------------------|--------------------|---------------------|---------------------|-------------------|--------------------|---------------------|---------------------|-------------------|--------------------|---------------------|---------------------|-------------------|--------------------|---------------------|---------------------|-------------------|--------------------|-----------|
|            | FT-229<br>LPM | FT-219C<br>LPM | FT-219C<br>LPM | FT-223<br>LPM | PV-207<br>LPM | FT-313B<br>LPM | SCFM<br>LPM | TDU Flow<br>LPM | FT-313B<br>LPM | FT-313<br>LPM | PV-211<br>LPM | PV-236<br>m3/h | PV-209<br>m3/h | FT-260-VEL<br>m/s | FT-260-VEL<br>m/s | FT-260-VEL<br>m3/s | FT-240<br>Degrees C | TE-241<br>Degrees C | FT-260-VEL<br>m/s | FT-260-VEL<br>m3/s | FT-240<br>Degrees C | TE-241<br>Degrees C | FT-260-VEL<br>m/s | FT-260-VEL<br>m3/s | FT-240<br>Degrees C | TE-241<br>Degrees C | FT-260-VEL<br>m/s | FT-260-VEL<br>m3/s | FT-240<br>Degrees C | TE-241<br>Degrees C | FT-260-VEL<br>m/s | FT-260-VEL<br>m3/s |           |
| 2022-05-25 | 15:35:00      | 36.3           | 7.53           | 168.5812      | 204.21        | 4.85           | 291         | 19.95           | 19056.25       | 11213.33      | 31.8625       | 31.8625        | 31.8625        | 31.8625           | 136863.4          | 136863.4           | 136863.4            | 1157.4              | 1157.4            | 136863.4           | 136863.4            | 1157.4              | 1157.4            | 136863.4           | 136863.4            | 1157.4              | 1157.4            | 136863.4           | 136863.4            | 1157.4              | 1157.4            | 136863.4           | 136863.4  |
| 2022-05-25 | 15:36:00      | 36.27          | 7.545          | 169.6162      | 204.435       | 4.755          | 285.3       | 19.95           | 18566.25       | 11224.76      | 31.8436       | 31.8436        | 31.8436        | 31.8436           | 137653.7          | 137653.7           | 137653.7            | 1157.3              | 1157.3            | 137653.7           | 137653.7            | 1157.3              | 1157.3            | 137653.7           | 137653.7            | 1157.3              | 1157.3            | 137653.7           | 137653.7            | 1157.3              | 1157.3            | 137653.7           | 137653.7  |
| 2022-05-25 | 15:37:00      | 35.635         | 7.555          | 169.4812      | 203.85        | 4.865          | 291.9       | 19.95           | 18662.5        | 11061.84      | 31.2951       | 31.2951        | 31.2951        | 31.2951           | 134953.8          | 134953.8           | 134953.8            | 1158.9              | 1158.9            | 134953.8           | 134953.8            | 1158.9              | 1158.9            | 134953.8           | 134953.8            | 1158.9              | 1158.9            | 134953.8           | 134953.8            | 1158.9              | 1158.9            | 134953.8           | 134953.8  |
| 2022-05-25 | 15:38:00      | 35.115         | 7.165          | 169.0087      | 202.995       | 4.815          | 288.9       | 19.95           | 18600          | 11207.91      | 30.87794      | 30.87794       | 30.87794       | 30.87794          | 1351668           | 1351668            | 1351668             | 1155.3              | 1155.3            | 1351668            | 1351668             | 1155.3              | 1155.3            | 1351668            | 1351668             | 1155.3              | 1155.3            | 1351668            | 1351668             | 1155.3              | 1155.3            | 1351668            | 1351668   |
| 2022-05-25 | 15:39:00      | 35.085         | 7.785          | 168.0525      | 204.165       | 4.76125        | 285.675     | 19.95           | 18600          | 11089.93      | 30.73661      | 30.73661       | 30.73661       | 30.73661          | 131845.9          | 131845.9           | 131845.9            | 1156.3              | 1156.3            | 131845.9           | 131845.9            | 1156.3              | 1156.3            | 131845.9           | 131845.9            | 1156.3              | 1156.3            | 131845.9           | 131845.9            | 1156.3              | 1156.3            | 131845.9           | 131845.9  |
| 2022-05-25 | 15:40:00      | 34.315         | 7.755          | 172.035       | 202.635       | 4.9025         | 294.15      | 19.95           | 19312.5        | 11219.15      | 31.57651      | 31.57651       | 31.57651       | 31.57651          | 1350478.4         | 1350478.4          | 1350478.4           | 1154.4              | 1154.4            | 1350478.4          | 1350478.4           | 1154.4              | 1154.4            | 1350478.4          | 1350478.4           | 1154.4              | 1154.4            | 1350478.4          | 1350478.4           | 1154.4              | 1154.4            | 1350478.4          | 1350478.4 |
| 2022-05-25 | 15:41:00      | 34.11          | 6.825          | 167.8169      | 204.255       | 4.80875        | 288.525     | 19.95           | 18650          | 11107.17      | 31.3003       | 31.3003        | 31.3003        | 31.3003           | 135087.6          | 135087.6           | 135087.6            | 1155.8              | 1155.8            | 135087.6           | 135087.6            | 1155.8              | 1155.8            | 135087.6           | 135087.6            | 1155.8              | 1155.8            | 135087.6           | 135087.6            | 1155.8              | 1155.8            | 135087.6           | 135087.6  |
| 2022-05-25 | 15:42:00      | 34.08          | 6.895          | 168.2438      | 203.715       | 4.76625        | 285.975     | 19.95           | 19662.5        | 11207.91      | 32.17972      | 32.17972       | 32.17972       | 32.17972          | 137854.2          | 137854.2           | 137854.2            | 1155.2              | 1155.2            | 137854.2           | 137854.2            | 1155.2              | 1155.2            | 137854.2           | 137854.2            | 1155.2              | 1155.2            | 137854.2           | 137854.2            | 1155.2              | 1155.2            | 137854.2           | 137854.2  |
| 2022-05-25 | 15:43:00      | 34.275         | 7.125          | 166.1625      | 203.355       | 4.7475         | 284.85      | 19.95           | 18912.5        | 11178.82      | 31.17882      | 31.17882       | 31.17882       | 31.17882          | 135159.6          | 135159.6           | 135159.6            | 1151.1              | 1151.1            | 135159.6           | 135159.6            | 1151.1              | 1151.1            | 135159.6           | 135159.6            | 1151.1              | 1151.1            | 135159.6           | 135159.6            | 1151.1              | 1151.1            | 135159.6           | 135159.6  |
| 2022-05-25 | 15:44:00      | 34.125         | 6.66           | 164.79        | 203.13        | 4.75625        | 285.375     | 19.95           | 19484.25       | 11276.33      | 33.67894      | 33.67894       | 33.67894       | 33.67894          | 144403.5          | 144403.5           | 144403.5            | 1149.3              | 1149.3            | 144403.5           | 144403.5            | 1149.3              | 1149.3            | 144403.5           | 144403.5            | 1149.3              | 1149.3            | 144403.5           | 144403.5            | 1149.3              | 1149.3            | 144403.5           | 144403.5  |
| 2022-05-25 | 15:45:00      | 35.91          | 7.315          | 166.3988      | 203.4         | 4.84875        | 290.925     | 19.95           | 19093.75       | 11112.4       | 32.45193      | 32.45193       | 32.45193       | 32.45193          | 139036.9          | 139036.9           | 139036.9            | 1149.7              | 1149.7            | 139036.9           | 139036.9            | 1149.7              | 1149.7            | 139036.9           | 139036.9            | 1149.7              | 1149.7            | 139036.9           | 139036.9            | 1149.7              | 1149.7            | 139036.9           | 139036.9  |
| 2022-05-25 | 15:46:00      | 35.955         | 7.275          | 167.7262      | 204.255       | 4.80875        | 288.525     | 19.95           | 18950          | 11168.98      | 32.75953      | 32.75953       | 32.75953       | 32.75953          | 1340188           | 1340188            | 1340188             | 1148.7              | 1148.7            | 1340188            | 1340188             | 1148.7              | 1148.7            | 1340188            | 1340188             | 1148.7              | 1148.7            | 1340188            | 1340188             | 1148.7              | 1148.7            | 1340188            | 1340188   |
| 2022-05-25 | 15:48:00      | 35.73          | 7.63           | 168.1538      | 204.3         | 4.9075         | 294.45      | 19.95           | 18662.5        | 11269.71      | 31.34455      | 31.34455       | 31.34455       | 31.34455          | 134606.9          | 134606.9           | 134606.9            | 1155.5              | 1155.5            | 134606.9           | 134606.9            | 1155.5              | 1155.5            | 134606.9           | 134606.9            | 1155.5              | 1155.5            | 134606.9           | 134606.9            | 1155.5              | 1155.5            | 134606.9           | 134606.9  |
| 2022-05-25 | 15:49:00      | 35.91          | 6.895          | 169.0537      | 203.355       | 4.89           | 293.4       | 19.95           | 18893.75       | 11224.76      | 31.7462       | 31.7462        | 31.7462        | 31.7462           | 1346938           | 1346938            | 1346938             | 1157                | 1157              | 1346938            | 1346938             | 1157                | 1157              | 1346938            | 1346938             | 1157                | 1157              | 1346938            | 1346938             | 1157                | 1157              | 1346938            | 1346938   |
| 2022-05-25 | 15:50:00      | 35.79          | 7.58           | 167.1525      | 202.71        | 4.9375         | 296.025     | 19.9875         | 18650          | 11128.26      | 31.10675      | 31.10675       | 31.10675       | 31.10675          | 1351438           | 1351438            | 1351438             | 1158.1              | 1158.1            | 1351438            | 1351438             | 1158.1              | 1158.1            | 1351438            | 1351438             | 1158.1              | 1158.1            | 1351438            | 1351438             | 1158.1              | 1158.1            | 1351438            | 1351438   |
| 2022-05-25 | 15:51:00      | 35.91          | 7.855          | 169.0537      | 204.57        | 4.9675         | 299.05      | 19.9875         | 19200          | 11022.52      | 32.29872      | 32.29872       | 32.29872       | 32.29872          | 1345063           | 1345063            | 1345063             | 1158.1              | 1158.1            | 1345063            | 1345063             | 1158.1              | 1158.1            | 1345063            | 1345063             | 1158.1              | 1158.1            | 1345063            | 1345063             | 1158.1              | 1158.1            | 1345063            | 1345063   |
| 2022-05-25 | 15:52:00      | 36.195         | 6.67           | 169.8075      | 204.705       | 4.8325         | 288.95      | 19.9875         | 18918.75       | 11207.91      | 31.74152      | 31.74152       | 31.74152       | 31.74152          | 1349688           | 1349688            | 1349688             | 1158.3              | 1158.3            | 1349688            | 1349688             | 1158.3              | 1158.3            | 1349688            | 1349688             | 1158.3              | 1158.3            | 1349688            | 1349688             | 1158.3              | 1158.3            | 1349688            | 1349688   |
| 2022-05-25 | 15:53:00      | 35.955         | 7.285          | 169.335       | 203.355       | 4.9275         | 295.65      | 19.9875         | 19093.75       | 11162.97      | 32.31488      | 32.31488       | 32.31488       | 32.31488          | 1340688           | 1340688            | 1340688             | 1158.3              | 1158.3            | 1340688            | 1340688             | 1158.3              | 1158.3            | 1340688            | 1340688             | 1158.3              | 1158.3            | 1340688            | 1340688             | 1158.3              | 1158.3            | 1340688            | 1340688   |
| 2022-05-25 | 15:54:00      | 35.85          | 6.855          | 169.5263      | 204.03        | 4.83125        | 289.875     | 19.9875         | 18818.75       | 11126         | 31.2827       | 31.2827        | 31.2827        | 31.2827           | 1350688           | 1350688            | 1350688             | 1158.8              | 1158.8            | 1350688            | 1350688             | 1158.8              | 1158.8            | 1350688            | 1350688             | 1158.8              | 1158.8            | 1350688            | 1350688             | 1158.8              | 1158.8            | 1350688            | 1350688   |
| 2022-05-25 | 15:55:00      | 35.79          | 7.795          | 169.1437      | 202.635       | 4.9175         | 295.05      | 19.9875         | 18881.25       | 11219.53      | 31.11701      | 31.11701       | 31.11701       | 31.11701          | 1349097           | 1349097            | 1349097             | 1158.5              | 1158.5            | 1349097            | 1349097             | 1158.5              | 1158.5            | 1349097            | 1349097             | 1158.5              | 1158.5            | 1349097            | 1349097             | 1158.5              | 1158.5            | 1349097            | 1349097   |
| 2022-05-25 | 15:56:00      | 35.76          | 6.96           | 168.7725      | 203.13        | 4.8175         | 289.05      | 19.9875         | 18668.75       | 11028.13      | 30.90116      | 30.90116       | 30.90116       | 30.90116          | 132702.8          | 132702.8           | 132702.8            | 1159.9              | 1159.9            | 132702.8           | 132702.8            | 1159.9              | 1159.9            | 132702.8           | 132702.8            | 1159.9              | 1159.9            | 132702.8           | 132702.8            | 1159.9              | 1159.9            | 132702.8           | 132702.8  |
| 2022-05-25 | 15:57:00      | 33.99          | 7.53           | 167.9625      | 204.525       | 4.885          | 293.1       | 19.9875         | 19343.75       | 11438.25      | 31.50045      | 31.50045       | 31.50045       | 31.50045          | 1345688           | 1345688            | 1345688             | 1157.6              | 1157.6            | 1345688            | 1345688             | 1157.6              | 1157.6            | 1345688            | 1345688             | 1157.6              | 1157.6            | 1345688            | 1345688             | 1157.6              | 1157.6            | 1345688            | 1345688   |
| 2022-05-25 | 15:58:00      | 34.14          | 7.16           | 168.8175      | 204.39        | 4.87875        | 292.725     | 19.9875         | 18725          | 11118.02      | 31.52776      | 31.52776       | 31.52776       | 31.52776          | 134765.3          | 134765.3           | 134765.3            | 1157.6              | 1157.6            | 134765.3           | 134765.3            | 1157.6              | 1157.6            | 134765.3           | 134765.3            | 1157.6              | 1157.6            | 134765.3           | 134765.3            | 1157.6              | 1157.6            | 134765.3           | 134765.3  |
| 2022-05-25 | 15:59:00      | 34.05          | 7.005          | 169.29        | 204.57        | 4.9325         | 297.15      | 19.9875         | 19512.5        | 11314.65      | 32.20519      | 32.20519       | 32.20519       | 32.20519          | 142028.8          | 142028.8           | 142028.8            | 1156.5              | 1156.5            | 142028.8           | 142028.8            | 1156.5              | 1156.5            | 142028.8           | 142028.8            | 1156.5              | 1156.5            | 142028.8           | 142028.8            | 1156.5              | 1156.5            | 142028.8           | 142028.8  |
| 2022-05-25 | 16:00:00      | 33.945         | 7.455          | 169.0988      | 203.085       | 4.9375         | 296.025     | 19.9875         | 19112.5        | 11207.91      | 31.45995      | 31.45995       | 31.45995       | 31.45995          | 134593.4          | 134593.4           | 134593.4            | 1153.5              | 1153.5            | 134593.4           | 134593.4            | 1153.5              | 1153.5            | 134593.4           | 134593.4            | 1153.5              | 1153.5            | 134593.4           | 134593.4            | 1153.5              | 1153.5            | 134593.4           | 134593.4  |
| 2022-05-25 | 16:01:00      | 34.185         | 7.53           | 168.8625      | 203.4         | 4.81875        | 289.125     | 19.9875         | 19243.75       | 11202.29      | 32.78652      | 32.78652       | 32.78652       | 32.78652          | 140238.1          | 140238.1           | 140238.1            | 1152.7              | 1152.7            | 140238.1           | 140238.1            | 1152.7              | 1152.7            | 140238.1           | 140238.1            | 1152.7              | 1152.7            | 140238.1           | 140238.1            | 1152.7              | 1152.7            | 140238.1           |           |

| \$Date     | \$Time   | Rich   |         | Emulsion |         | Lean    |         | Alkaline |          | TDU Flow |          | Leachate |          | Primary  |        | Secondary         |        | Stack Velocity    |          | Stack Flow |            | Primary |           | Secondary |          | Quench   |          | SDA      |        | Stack |       |       |
|------------|----------|--------|---------|----------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|--------|-------------------|--------|-------------------|----------|------------|------------|---------|-----------|-----------|----------|----------|----------|----------|--------|-------|-------|-------|
|            |          | LPM    | FT-219C | LPM      | FT-223  | LPM     | PV-207  | LPM      | FT-313B  | FT-313B  | FT-313B  | FT-313B  | FT-313B  | LPM      | PV-211 | m <sup>3</sup> /h | PV-236 | m <sup>3</sup> /h | PV-209   | m/s        | FT-260-VEL | Rm3/s   | FT-260-RR | TE-240    | TE-241   | TE-203   | TE-204   | TE-258   | TE-258 |       |       |       |
| 2022-05-25 | 16:49:00 | 35.34  | 6.995   | 171.945  | 203.49  | 5.47875 | 5.47875 | 328.725  | 19.0125  | 18666.75 | 11185.44 | 31.50719 | 1338.063 | 1338.063 | 1157.1 | 508.7             | 191    | 182.3             | 31.50719 | 1338.063   | 1338.063   | 1157.1  | 508.7     | 191       | 182.3    | 31.50719 | 1338.063 | 1338.063 | 1157.1 | 508.7 | 191   | 182.3 |
| 2022-05-25 | 16:50:00 | 35.28  | 7.325   | 171.4725 | 202.545 | 5.49    | 329.4   | 188.25   | 11078.77 | 11855.44 | 34.10317 | 1456.296 | 1343.313 | 1156.9   | 508.8  | 191.5             | 182.3  | 34.10317          | 1456.296 | 1343.313   | 1156.9     | 508.8   | 191.5     | 182.3     | 34.10317 | 1456.296 | 1343.313 | 1156.9   | 508.8  | 191.5 | 182.3 |       |
| 2022-05-25 | 16:51:00 | 35.37  | 7.31    | 170.9437 | 202.545 | 5.5     | 330     | 19.125   | 18618.75 | 11230.38 | 31.79237 | 1360.054 | 1334.813 | 1156     | 508.8  | 192               | 182.3  | 31.79237          | 1360.054 | 1334.813   | 1156       | 508.8   | 192       | 182.3     | 31.79237 | 1360.054 | 1334.813 | 1156     | 508.8  | 192   | 182.3 |       |
| 2022-05-25 | 16:52:00 | 35.04  | 7.735   | 170.9437 | 204.12  | 5.54875 | 332.925 | 19.125   | 18837.5  | 11213.53 | 31.08281 | 1354.407 | 1331.438 | 1157.4   | 508.8  | 192               | 182.3  | 31.08281          | 1354.407 | 1331.438   | 1157.4     | 508.8   | 192       | 182.3     | 31.08281 | 1354.407 | 1331.438 | 1157.4   | 508.8  | 192   | 182.3 |       |
| 2022-05-25 | 16:53:00 | 35.595 | 6.535   | 169.29   | 204.3   | 5.4525  | 327.15  | 19.125   | 18987.5  | 11224.76 | 31.69271 | 1354.407 | 1331.438 | 1156.3   | 509.1  | 192               | 183.4  | 31.69271          | 1354.407 | 1331.438   | 1156.3     | 509.1   | 192       | 183.4     | 31.69271 | 1354.407 | 1331.438 | 1156.3   | 509.1  | 192   | 183.4 |       |
| 2022-05-25 | 16:54:00 | 35.25  | 6.2     | 169.8525 | 204.075 | 5.39875 | 323.925 | 19.125   | 18925    | 11224.76 | 31.50061 | 1347.083 | 1336.063 | 1155.9   | 509.5  | 192.5             | 183.4  | 31.50061          | 1347.083 | 1336.063   | 1155.9     | 509.5   | 192.5     | 183.4     | 31.50061 | 1347.083 | 1336.063 | 1155.9   | 509.5  | 192.5 | 183.4 |       |
| 2022-05-25 | 16:55:00 | 35.46  | 6.735   | 167.9625 | 203.04  | 5.4575  | 327.45  | 19.125   | 18662.5  | 11112.4  | 30.96275 | 1329.22  | 1342.313 | 1156.8   | 508.5  | 192               | 183.4  | 30.96275          | 1329.22  | 1342.313   | 1156.8     | 508.5   | 192       | 183.4     | 30.96275 | 1329.22  | 1342.313 | 1156.8   | 508.5  | 192   | 183.4 |       |
| 2022-05-25 | 16:57:00 | 35.16  | 6.47    | 167.6813 | 203.175 | 5.455   | 327.3   | 19.125   | 18525.25 | 11152.85 | 31.48051 | 1338.438 | 1336.313 | 1155.2   | 508.2  | 191.5             | 183.4  | 31.48051          | 1338.438 | 1336.313   | 1155.2     | 508.2   | 191.5     | 183.4     | 31.48051 | 1338.438 | 1336.313 | 1155.2   | 508.2  | 191.5 | 183.4 |       |
| 2022-05-25 | 16:58:00 | 35.445 | 6.855   | 166.1087 | 203.625 | 5.525   | 331.5   | 19.125   | 18787.5  | 11196.67 | 31.13407 | 1330.063 | 1340.563 | 1155.2   | 508.2  | 191.5             | 183.4  | 31.13407          | 1330.063 | 1340.563   | 1155.2     | 508.2   | 191.5     | 183.4     | 31.13407 | 1330.063 | 1340.563 | 1155.2   | 508.2  | 191.5 | 183.4 |       |
| 2022-05-25 | 16:59:00 | 35.325 | 6.98    | 168.8175 | 203.22  | 5.42125 | 325.275 | 19.2375  | 19468.75 | 11241.62 | 32.49468 | 1385.4   | 1336.313 | 1155.6   | 508.5  | 191.5             | 183.4  | 32.49468          | 1385.4   | 1336.313   | 1155.6     | 508.5   | 191.5     | 183.4     | 32.49468 | 1385.4   | 1336.313 | 1155.6   | 508.5  | 191.5 | 183.4 |       |
| 2022-05-25 | 17:00:00 | 35.19  | 7.12    | 168.7163 | 204.3   | 5.455   | 327.3   | 19.2375  | 18925    | 11236    | 31.70589 | 1355.64  | 1336.313 | 1157.3   | 509.2  | 192               | 183.4  | 31.70589          | 1355.64  | 1336.313   | 1157.3     | 509.2   | 192       | 183.4     | 31.70589 | 1355.64  | 1336.313 | 1157.3   | 509.2  | 192   | 183.4 |       |
| 2022-05-25 | 17:01:00 | 35.265 | 7.085   | 168.0363 | 203.355 | 5.44375 | 326.625 | 19.2375  | 19812.25 | 11353.98 | 32.1992  | 1374.448 | 1337.313 | 1156.7   | 509.5  | 192               | 183.4  | 32.1992           | 1374.448 | 1337.313   | 1156.7     | 509.5   | 192       | 183.4     | 32.1992  | 1374.448 | 1337.313 | 1156.7   | 509.5  | 192   | 183.4 |       |
| 2022-05-25 | 17:02:00 | 35.34  | 7.015   | 169.0988 | 203.625 | 5.5125  | 330.75  | 19.2375  | 18850    | 11230.38 | 31.28396 | 1334.043 | 1337.688 | 1157.6   | 510.5  | 193               | 183.4  | 31.28396          | 1334.043 | 1337.688   | 1157.6     | 510.5   | 193       | 183.4     | 31.28396 | 1334.043 | 1337.688 | 1157.6   | 510.5  | 193   | 183.4 |       |
| 2022-05-25 | 17:03:00 | 35.325 | 7.3     | 171.7087 | 203.76  | 5.6     | 336     | 19.2375  | 19268.75 | 11258.47 | 32.03968 | 1338.938 | 1338.938 | 1157.3   | 510.9  | 193               | 183.4  | 32.03968          | 1338.938 | 1338.938   | 1157.3     | 510.9   | 193       | 183.4     | 32.03968 | 1338.938 | 1338.938 | 1157.3   | 510.9  | 193   | 183.4 |       |
| 2022-05-25 | 17:04:00 | 35.25  | 7.195   | 171.2813 | 203.67  | 5.54875 | 332.925 | 19.2375  | 18662.5  | 11252.85 | 31.20234 | 1331.858 | 1332.938 | 1156.8   | 511.1  | 193               | 183.4  | 31.20234          | 1331.858 | 1332.938   | 1156.8     | 511.1   | 193       | 183.4     | 31.20234 | 1331.858 | 1332.938 | 1156.8   | 511.1  | 193   | 183.4 |       |
| 2022-05-25 | 17:05:00 | 34.98  | 7.465   | 174.78   | 203.76  | 5.43    | 325.8   | 19.2375  | 19275    | 11196.67 | 33.03979 | 1426.83  | 1348.688 | 1158.4   | 510.3  | 192.5             | 183.4  | 33.03979          | 1426.83  | 1348.688   | 1158.4     | 510.3   | 192.5     | 183.4     | 33.03979 | 1426.83  | 1348.688 | 1158.4   | 510.3  | 192.5 | 183.4 |       |
| 2022-05-25 | 17:06:00 | 35.43  | 7.445   | 170.4262 | 204.255 | 5.475   | 328.5   | 19.2375  | 18937.5  | 11196.67 | 31.42331 | 1341.718 | 1343.813 | 1158.4   | 510.9  | 193               | 183.4  | 31.42331          | 1341.718 | 1343.813   | 1158.4     | 510.9   | 193       | 183.4     | 31.42331 | 1341.718 | 1343.813 | 1158.4   | 510.9  | 193   | 183.4 |       |
| 2022-05-25 | 17:07:00 | 35.475 | 6.64    | 170.3363 | 204.12  | 5.5175  | 331.05  | 19.2375  | 18787.5  | 11089.93 | 33.59112 | 1434.136 | 1347.813 | 1159.1   | 510.9  | 193               | 183.4  | 33.59112          | 1434.136 | 1347.813   | 1159.1     | 510.9   | 193       | 183.4     | 33.59112 | 1434.136 | 1347.813 | 1159.1   | 510.9  | 193   | 183.4 |       |
| 2022-05-25 | 17:08:00 | 35.34  | 6.43    | 170.3363 | 203.715 | 5.4975  | 329.85  | 19.2375  | 18962.5  | 11219.15 | 32.3883  | 13820.14 | 1339.563 | 1157.9   | 511    | 193               | 183.4  | 32.3883           | 13820.14 | 1339.563   | 1157.9     | 511     | 193       | 183.4     | 32.3883  | 13820.14 | 1339.563 | 1157.9   | 511    | 193   | 183.4 |       |
| 2022-05-25 | 17:09:00 | 35.13  | 6.805   | 169.0087 | 203.445 | 5.455   | 327.3   | 19.2375  | 18750    | 11185.44 | 31.54202 | 1345.14  | 1346.313 | 1158.6   | 510.4  | 193               | 183.4  | 31.54202          | 1345.14  | 1346.313   | 1158.6     | 510.4   | 193       | 183.4     | 31.54202 | 1345.14  | 1346.313 | 1158.6   | 510.4  | 193   | 183.4 |       |
| 2022-05-25 | 17:10:00 | 35.115 | 7.21    | 167.8163 | 203.355 | 4.9375  | 296.25  | 19.2375  | 19168.75 | 11230.38 | 31.94424 | 1363.662 | 1345.063 | 1155     | 509.6  | 193               | 183.4  | 31.94424          | 1363.662 | 1345.063   | 1155       | 509.6   | 193       | 183.4     | 31.94424 | 1363.662 | 1345.063 | 1155     | 509.6  | 193   | 183.4 |       |
| 2022-05-25 | 17:11:00 | 35.355 | 6.99    | 166.9162 | 204.525 | 4.7175  | 283.05  | 19.2375  | 18887.5  | 11146.11 | 31.717   | 1350.366 | 1350.813 | 1153.2   | 508.4  | 192.5             | 183.4  | 31.717            | 1350.366 | 1350.813   | 1153.2     | 508.4   | 192.5     | 183.4     | 31.717   | 1350.366 | 1350.813 | 1153.2   | 508.4  | 192.5 | 183.4 |       |
| 2022-05-25 | 17:12:00 | 35.1   | 6.635   | 166.68   | 202.95  | 4.63875 | 276.325 | 19.2375  | 18837.5  | 11241.62 | 31.72649 | 1353.882 | 1346.438 | 1148.7   | 505.7  | 192               | 183.4  | 31.72649          | 1353.882 | 1346.438   | 1148.7     | 505.7   | 192       | 183.4     | 31.72649 | 1353.882 | 1346.438 | 1148.7   | 505.7  | 192   | 183.4 |       |
| 2022-05-25 | 17:13:00 | 35.22  | 7.95    | 166.2525 | 205.515 | 4.61125 | 276.675 | 19.2375  | 18806.25 | 11252.85 | 31.03494 | 1324.84  | 1350.438 | 1148.7   | 505.7  | 192               | 183.4  | 31.03494          | 1324.84  | 1350.438   | 1148.7     | 505.7   | 192       | 183.4     | 31.03494 | 1324.84  | 1350.438 | 1148.7   | 505.7  | 192   | 183.4 |       |
| 2022-05-25 | 17:14:00 | 35.34  | 6.195   | 159.0075 | 203.76  | 4.60625 | 276.375 | 19.2375  | 19537.5  | 11359.6  | 32.22654 | 1399.933 | 1342.063 | 1145.3   | 504.6  | 189.5             | 182.3  | 32.22654          | 1399.933 | 1342.063   | 1145.3     | 504.6   | 189.5     | 182.3     | 32.22654 | 1399.933 | 1342.063 | 1145.3   | 504.6  | 189.5 | 182.3 |       |
| 2022-05-25 | 17:15:00 | 35.4   | 6.795   | 164.3625 | 203.94  | 4.5625  | 273.75  | 19.2375  | 19081.25 | 11213.53 | 31.16805 | 1335.79  | 1341.188 | 1148.8   | 506.6  | 181.3             | 181.3  | 31.16805          | 1335.79  | 1341.188   | 1148.8     | 506.6   | 181.3     | 181.3     | 31.16805 | 1335.79  | 1341.188 | 1148.8   | 506.6  | 181.3 | 181.3 |       |
| 2022-05-25 | 17:16:00 | 35.19  | 6.75    | 163.4175 | 204.075 | 4.6175  | 277.05  | 19.2375  | 19718.75 | 11275.33 | 32.10128 | 13820.37 | 1347.813 | 1137.2   | 502.6  | 187               | 181.3  | 32.10128          | 13820.37 | 1347.813   | 1137.2     | 502.6   | 187       | 181.3     | 32.10128 | 13820.37 | 1347.813 | 1137.2   | 502.6  | 187   | 181.3 |       |
| 2022-05-25 | 17:17:00 | 35.115 | 7.19    | 165.2625 | 204.39  | 4.80875 | 286.525 | 19.2375  | 19162.5  | 11286.56 | 32.15602 | 13822.46 | 1339.563 | 1133.8   | 501.8  | 186               | 181.3  | 32.15602          | 13822.46 | 1339.563   | 1133.8     | 501.8   | 186       | 181.3     | 32.15602 | 13822.46 | 1339.563 | 1133.8   | 501.8  | 186   | 181.3 |       |
| 2022-05-25 | 17:18:00 | 35.175 | 6.335   | 164.2163 | 203.67  | 4.8625  | 291.75  | 19.2375  | 19756.25 | 11421.39 | 32.40472 | 1395.613 | 1325.613 | 1132.7   | 501    | 185               | 180.2  | 32.40472          | 1395.613 | 1325.613   | 1132.7     | 501     | 185       | 180.2     | 32.40472 | 1395.613 | 1325.613 | 1132.7   | 501    | 185   | 180.2 |       |
| 2022-05-25 | 17:19:00 | 35.52  | 7.535   | 164.2725 | 204.48  | 4.98875 | 291.525 | 19.2375  | 19918.75 | 11118.0  |          |          |          |          |        |                   |        |                   |          |            |            |         |           |           |          |          |          |          |        |       |       |       |



| \$Date     | \$Time   | Incinerator |         | SDA Inlet |          | BH Inlet |        | BH eP |         | Main H2O |               | Main CO2 |                | Main HCl |                | Main CO |               | Main SO2 |          | Opacity |               | Main O2 |                | THC    |               | Backup CO2 |               | Backup SO2     |               | PAC           |               |           |           |   |          |
|------------|----------|-------------|---------|-----------|----------|----------|--------|-------|---------|----------|---------------|----------|----------------|----------|----------------|---------|---------------|----------|----------|---------|---------------|---------|----------------|--------|---------------|------------|---------------|----------------|---------------|---------------|---------------|-----------|-----------|---|----------|
|            |          | mmH2O       | PT-242A | mmH2O     | PT-249   | mmH2O    | PT-515 | mmH2O | PDT-622 | mmH2O    | AT-205-IN-NEW | mmH2O    | AT-213B-IN-NEW | %        | AT-213A-IN-NEW | PPM     | AT-205-IN-NEW | PPM      | AT-213C  | PPM     | AT-259-IN-NEW | %       | AT-261A-IN-NEW | PPM    | AT-259-IN-NEW | PPM        | AT-205-IN-NEW | AT-261A-IN-NEW | AT-264-IN-NEW | AT-264-IN-NEW | AT-264-IN-NEW | SC-PAC-FT | SC-PAC-FT |   |          |
| 2022-05-25 | 10:04:00 | -12.3       | -50.625 | -118.838  | 279      | 0        | 0.08   | 0     | 0.08    | 29       | 0.43          | 0.43     | 0.15           | 36.68    | 0              | 47.86   | 10.43         | 0        | 33.94125 | 0       | 47.86         | 10.43   | 0              | 47.86  | 10.43         | 0          | 34.3875       | 0              | 34.3875       | 0             | 34.7025       | 0         | 34.99125  | 0 | 34.99125 |
| 2022-05-25 | 10:06:00 | -8.85       | -43.135 | -109.388  | 313.25   | 0        | 0.08   | 0     | 0.08    | 38.8     | 0.43          | 0.43     | 0.11           | 38.8     | 0              | 65.94   | 9.82          | 0        | 34.99125 | 0       | 65.94         | 9.82    | 0              | 65.94  | 9.82          | 0          | 34.99125      | 0              | 34.99125      | 0             | 34.99125      | 0         | 34.99125  | 0 | 34.99125 |
| 2022-05-25 | 10:07:00 | -29.6       | -65.75  | -149.425  | 272      | 0        | 0.08   | 0     | 0.08    | 38.8     | 0.43          | 0.43     | 0.25           | 38.8     | 0              | 65.94   | 9.82          | 0        | 34.99125 | 0       | 65.94         | 9.82    | 0              | 65.94  | 9.82          | 0          | 34.99125      | 0              | 34.99125      | 0             | 34.99125      | 0         | 34.99125  | 0 | 34.99125 |
| 2022-05-25 | 10:08:00 | -12.6       | -50.375 | -119.625  | 302.6875 | 0        | 0.08   | 0     | 0.08    | 30.3     | 0.43          | 0.43     | 0.02           | 30.3     | 0              | 47.42   | 10.28         | 0        | 34.755   | 0       | 47.42         | 10.28   | 0              | 47.42  | 10.28         | 0          | 34.755        | 0              | 34.755        | 0             | 34.755        | 0         | 34.755    | 0 | 34.755   |
| 2022-05-25 | 10:09:00 | -30.45      | -75.25  | -153.975  | 254.375  | 0        | 0.08   | 0     | 0.08    | 34       | 0.43          | 0.43     | 0.16           | 34       | 0              | 51.97   | 10.07         | 0        | 34.20375 | 0       | 51.97         | 10.07   | 0              | 51.97  | 10.07         | 0          | 34.20375      | 0              | 34.20375      | 0             | 34.20375      | 0         | 34.20375  | 0 | 34.20375 |
| 2022-05-25 | 10:10:00 | -15.45      | -57.625 | -127.688  | 289.625  | 0        | 0.08   | 0     | 0.08    | 25.8     | 0.43          | 0.43     | 0.12           | 25.8     | 0              | 37.11   | 10.4          | 0        | 34.09875 | 0       | 37.11         | 10.4    | 0              | 37.11  | 10.4          | 0          | 34.09875      | 0              | 34.09875      | 0             | 34.09875      | 0         | 34.09875  | 0 | 34.09875 |
| 2022-05-25 | 10:11:00 | -16.7       | -60.625 | -133.763  | 267.25   | 0        | 0.08   | 0     | 0.08    | 45.9     | 0.43          | 0.43     | 0.15           | 45.9     | 0              | 62.11   | 10.19         | 0        | 35.0175  | 0       | 62.11         | 10.19   | 0              | 62.11  | 10.19         | 0          | 35.0175       | 0              | 35.0175       | 0             | 35.0175       | 0         | 35.0175   | 0 | 35.0175  |
| 2022-05-25 | 10:12:00 | -14.75      | -51.625 | -127.688  | 271.8125 | 0        | 0.08   | 0     | 0.08    | 35.8     | 0.43          | 0.43     | 0.11           | 35.8     | 0              | 62.07   | 10.19         | 0        | 34.83375 | 0       | 62.07         | 10.19   | 0              | 62.07  | 10.19         | 0          | 34.83375      | 0              | 34.83375      | 0             | 34.83375      | 0         | 34.83375  | 0 | 34.83375 |
| 2022-05-25 | 10:13:00 | -13.3       | -48.625 | -124.313  | 287.375  | 0        | 0.08   | 0     | 0.08    | 42.9     | 0.43          | 0.43     | 0.08           | 42.9     | 0              | 60.5    | 10.19         | 0        | 34.0725  | 0       | 60.5          | 10.19   | 0              | 60.5   | 10.19         | 0          | 34.0725       | 0              | 34.0725       | 0             | 34.0725       | 0         | 34.0725   | 0 | 34.0725  |
| 2022-05-25 | 10:14:00 | -12.1       | -48.875 | -117.788  | 306      | 0        | 0.08   | 0     | 0.08    | 38.6     | 0.43          | 0.43     | 0.02           | 38.6     | 0              | 70.34   | 9.98          | 0        | 34.3875  | 0       | 70.34         | 9.98    | 0              | 70.34  | 9.98          | 0          | 34.3875       | 0              | 34.3875       | 0             | 34.3875       | 0         | 34.3875   | 0 | 34.3875  |
| 2022-05-25 | 10:15:00 | -8.45       | -45     | -110.138  | 322.9375 | 0        | 0.08   | 0     | 0.08    | 51.1     | 0.43          | 0.43     | 0.09           | 51.1     | 0              | 75.33   | 10.06         | 0        | 34.51875 | 0       | 75.33         | 10.06   | 0              | 75.33  | 10.06         | 0          | 34.51875      | 0              | 34.51875      | 0             | 34.51875      | 0         | 34.51875  | 0 | 34.51875 |
| 2022-05-25 | 10:16:00 | -17.3       | -60     | -127.875  | 296.5625 | 0        | 0.08   | 0     | 0.08    | 40       | 0.43          | 0.43     | 0.02           | 40       | 0              | 53.27   | 10.28         | 0        | 34.9125  | 0       | 53.27         | 10.28   | 0              | 53.27  | 10.28         | 0          | 34.9125       | 0              | 34.9125       | 0             | 34.9125       | 0         | 34.9125   | 0 | 34.9125  |
| 2022-05-25 | 10:17:00 | -10.65      | -48.5   | -117.375  | 307.125  | 0        | 0.08   | 0     | 0.08    | 43.9     | 0.43          | 0.43     | 0.1            | 43.9     | 0              | 77.17   | 9.86          | 0        | 34.0725  | 0       | 77.17         | 9.86    | 0              | 77.17  | 9.86          | 0          | 34.0725       | 0              | 34.0725       | 0             | 34.0725       | 0         | 34.0725   | 0 | 34.0725  |
| 2022-05-25 | 10:18:00 | -20.7       | -63.75  | -134.475  | 282.625  | 0        | 0.08   | 0     | 0.08    | 41.5     | 0.43          | 0.43     | 0.12           | 41.5     | 0              | 64.18   | 10.45         | 0        | 34.65    | 0       | 64.18         | 10.45   | 0              | 64.18  | 10.45         | 0          | 34.65         | 0              | 34.65         | 0             | 34.65         | 0         | 34.65     | 0 | 34.65    |
| 2022-05-25 | 10:19:00 | -14.85      | -53.25  | -123.488  | 291.5625 | 0        | 0.08   | 0     | 0.08    | 41.6     | 0.43          | 0.43     | 0.12           | 41.6     | 0              | 69.17   | 10.24         | 0        | 33.73125 | 0       | 69.17         | 10.24   | 0              | 69.17  | 10.24         | 0          | 33.73125      | 0              | 33.73125      | 0             | 33.73125      | 0         | 33.73125  | 0 | 33.73125 |
| 2022-05-25 | 10:20:00 | -20.25      | -61.875 | -134.438  | 263.625  | 0        | 0.08   | 0     | 0.08    | 44.1     | 0.43          | 0.43     | 0.15           | 44.1     | 0              | 69.17   | 10.24         | 0        | 33.73125 | 0       | 69.17         | 10.24   | 0              | 69.17  | 10.24         | 0          | 33.73125      | 0              | 33.73125      | 0             | 33.73125      | 0         | 33.73125  | 0 | 33.73125 |
| 2022-05-25 | 10:21:00 | -13.8       | -51     | -122.475  | 274.5625 | 0        | 0.08   | 0     | 0.08    | 43.8     | 0.43          | 0.43     | 0.15           | 43.8     | 0              | 73.43   | 10.07         | 0        | 34.15125 | 0       | 73.43         | 10.07   | 0              | 73.43  | 10.07         | 0          | 34.15125      | 0              | 34.15125      | 0             | 34.15125      | 0         | 34.15125  | 0 | 34.15125 |
| 2022-05-25 | 10:22:00 | -15.5       | -56.625 | -127.5    | 297      | 0        | 0.08   | 0     | 0.08    | 46.5     | 0.43          | 0.43     | 0.06           | 46.5     | 0              | 56.71   | 10.37         | 0        | 35.25375 | 0       | 56.71         | 10.37   | 0              | 56.71  | 10.37         | 0          | 35.25375      | 0              | 35.25375      | 0             | 35.25375      | 0         | 35.25375  | 0 | 35.25375 |
| 2022-05-25 | 10:23:00 | -8.85       | -47.375 | -110.888  | 310.3125 | 0        | 0.08   | 0     | 0.08    | 50.6     | 0.43          | 0.43     | 0.09           | 50.6     | 0              | 66.56   | 9.9           | 0        | 34.86    | 0       | 66.56         | 9.9     | 0              | 66.56  | 9.9           | 0          | 34.86         | 0              | 34.86         | 0             | 34.86         | 0         | 34.86     | 0 | 34.86    |
| 2022-05-25 | 10:24:00 | -28.8       | -73.875 | -155.663  | 255.9375 | 0        | 0.08   | 0     | 0.08    | 68.7     | 0.43          | 0.43     | 0.27           | 68.7     | 0              | 133.78  | 9.73          | 0        | 33.88875 | 0       | 133.78        | 9.73    | 0              | 133.78 | 9.73          | 0          | 33.88875      | 0              | 33.88875      | 0             | 33.88875      | 0         | 33.88875  | 0 | 33.88875 |
| 2022-05-25 | 10:25:00 | -10.4       | -46.875 | -118.5    | 300.8125 | 0        | 0.08   | 0     | 0.08    | 42.3     | 0.43          | 0.43     | 0.1            | 42.3     | 0              | 71.39   | 9.95          | 0        | 34.59375 | 0       | 71.39         | 9.95    | 0              | 71.39  | 9.95          | 0          | 34.59375      | 0              | 34.59375      | 0             | 34.59375      | 0         | 34.59375  | 0 | 34.59375 |
| 2022-05-25 | 10:26:00 | -26.25      | -71.625 | -146.363  | 253.8125 | 0        | 0.08   | 0     | 0.08    | 55.1     | 0.43          | 0.43     | 0.12           | 55.1     | 0              | 55.7    | 10.31         | 0        | 33.81    | 0       | 55.7          | 10.31   | 0              | 55.7   | 10.31         | 0          | 33.81         | 0              | 33.81         | 0             | 33.81         | 0         | 33.81     | 0 | 33.81    |
| 2022-05-25 | 10:27:00 | -15         | -54     | -124.238  | 288      | 0        | 0.08   | 0     | 0.08    | 38.5     | 0.43          | 0.43     | 0.15           | 38.5     | 0              | 72.54   | 10.1          | 0        | 34.545   | 0       | 72.54         | 10.1    | 0              | 72.54  | 10.1          | 0          | 34.545        | 0              | 34.545        | 0             | 34.545        | 0         | 34.545    | 0 | 34.545   |
| 2022-05-25 | 10:28:00 | -11.6       | -49.625 | -116.738  | 302.125  | 0        | 0.08   | 0     | 0.08    | 51       | 0.43          | 0.43     | 0.14           | 51       | 0              | 66.56   | 9.9           | 0        | 34.86    | 0       | 66.56         | 9.9     | 0              | 66.56  | 9.9           | 0          | 34.86         | 0              | 34.86         | 0             | 34.86         | 0         | 34.86     | 0 | 34.86    |
| 2022-05-25 | 10:29:00 | -14.4       | -51.25  | -123.188  | 272      | 0        | 0.08   | 0     | 0.08    | 40.4     | 0.43          | 0.43     | 0.11           | 40.4     | 0              | 93.04   | 10.1          | 0        | 33.8625  | 0       | 93.04         | 10.1    | 0              | 93.04  | 10.1          | 0          | 33.8625       | 0              | 33.8625       | 0             | 33.8625       | 0         | 33.8625   | 0 | 33.8625  |
| 2022-05-25 | 10:30:00 | -9.25       | -48     | -116.175  | 284.6875 | 0        | 0.08   | 0     | 0.08    | 48.4     | 0.43          | 0.43     | 0.06           | 48.4     | 0              | 81.24   | 9.9           | 0        | 34.1775  | 0       | 81.24         | 9.9     | 0              | 81.24  | 9.9           | 0          | 34.1775       | 0              | 34.1775       | 0             | 34.1775       | 0         | 34.1775   | 0 | 34.1775  |
| 2022-05-25 | 10:31:00 | -9.25       | -48     | -116.175  | 284.6875 | 0        | 0.08   | 0     | 0.08    | 48.4     | 0.43          | 0.43     | 0.06           | 48.4     | 0              | 81.24   | 9.9           | 0        | 34.1775  | 0       | 81.24         | 9.9     | 0              | 81.24  | 9.9           | 0          | 34.1775       | 0              | 34.1775       | 0             | 34.1775       | 0         | 34.1775   | 0 | 34.1775  |
| 2022-05-25 | 10:32:00 | -5.35       | -41.875 | -106.5    | 323.25   | 0        | 0.08   | 0     | 0.08    | 75.2     | 0.43          | 0.43     | 0.12           | 75.2     | 0              | 105.51  | 9.71          | 0        | 35.175   | 0       | 105.51        | 9.71    | 0              | 105.51 | 9.71          | 0          | 35.175        | 0              | 35.175        | 0             | 35.175        | 0         | 35.175    | 0 | 35.175   |
| 2022-05-25 | 10:33:00 | -15.4       | -58     | -126.263  | 295.9375 | 0        | 0.08   | 0     | 0.08    | 45.6     | 0.43          | 0.43     | 0.02           | 45.6     | 0              | 124.5   | 9.5           | 0        | 34.02    | 0       | 124.5         | 9.5     | 0              | 124.5  | 9.5           | 0          | 34.02         | 0              | 34.02         | 0             | 34.02         | 0         | 34.02     | 0 | 34.02    |
| 2022-05-25 | 10:34:00 | -9.05       | -44.5   | -114.675  | 306.125  | 0        | 0.08   | 0     | 0.08    | 48.4     | 0.43          | 0.43     | 0.02           | 48.4     | 0              | 51.62   | 10.21         | 0        | 34.59375 | 0       | 51.62         | 10.21   | 0              | 51.62  | 10.21         | 0          | 34.59375      | 0              | 34.59375      | 0             | 34.59375      | 0         | 34.59375  | 0 | 34.59375 |
| 2022-05-25 | 10:35:00 | -20.9       | -60.625 | -136.875  | 285.5625 | 0        | 0.08   | 0     | 0.08    | 48.7     | 0.43          | 0.43     | 0.11           | 48.7     | 0              | 76.51   | 9.81          | 0        | 34.09875 | 0       | 76.51         | 9.81    | 0              | 76.51  | 9.81          | 0          | 34.09875      | 0              | 34.09875      | 0             | 34.09875      | 0         | 34.09875  | 0 | 34.09875 |
| 2022-05-25 | 10:36:00 | -14.25      | -50.375 | -124.388  | 295.25   | 0        | 0.08   | 0     | 0.08    | 43       | 0.43          | 0.43     | 0.16           | 43       | 0              | 55.37   | 10.4          | 0        | 34.0725  | 0       | 55.37         | 10.4    | 0              | 55.37  | 10.4          | 0          | 34.0725       | 0              | 34.0725       | 0             | 34.0725       | 0         | 34.0725   | 0 | 34.0725  |
| 2022-05-25 | 10:37:00 | -20.7       | -59.75  | -136.238  | 266.3125 | 0        | 0.08   | 0     | 0.08    | 42.6     | 0.43          | 0.43     | 0.15           | 42.6     | 0              | 64.04   | 10.4          | 0        | 34.57125 | 0       | 64.04         | 10.4    | 0              | 64.04  | 10.4          | 0          | 34.57125      | 0              | 34.57125      | 0             | 34.57125      | 0         | 34.57125  | 0 | 34.57125 |
| 2022-05-25 | 10:38:00 | -15.75      | -52.625 | -124.5    | 278.75   | 0        | 0.08   | 0     | 0.08    | 42.5     | 0.43          | 0.43     | 0.12           | 42.5     | 0              | 72.23   | 10.4          | 0        | 33.915   | 0       | 72.23         | 10.4    | 0              | 72.23  | 10.4          | 0          | 33.915        | 0              | 33.915        | 0             | 33.915        | 0         | 33.915    | 0 | 33.915   |
| 2022-05-25 | 10:39:00 | -27.4       | -64.125 | -137.963  | 289.875  | 0        | 0.08   | 0     | 0.08    | 47.7     | 0.43          | 0.43     | 0.41           | 47.7     | 0              | 81.24   | 10.62         | 0        | 34.46625 | 0       | 81.24         | 10.62   | 0              | 81.24  | 10.62         | 0          | 34.46625      | 0              | 34.46625      | 0             | 34.46625      | 0         | 34.46625  | 0 | 34.46625 |
| 2022-05-25 | 10:40:00 | -9.3        | -43.25  | -113.513  | 3        |          |        |       |         |          |               |          |                |          |                |         |               |          |          |         |               |         |                |        |               |            |               |                |               |               |               |           |           |   |          |

| SDate               | Incinerator |         | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH dP | Main CO<br>PPM | Main HCl<br>PPM | Main CO2<br>% | Main H2O<br>% | THC<br>PPM | Main O2<br>% | Opacity<br>% | Main SO2<br>PPM | Backup CO<br>PPM | Backup O2<br>% | Backup SO2<br>PPM | PAC<br>Lbs/h |
|---------------------|-------------|---------|--------------------|-------------------|-------|----------------|-----------------|---------------|---------------|------------|--------------|--------------|-----------------|------------------|----------------|-------------------|--------------|
|                     | PT-242A     | PT-242A |                    |                   |       |                |                 |               |               |            |              |              |                 |                  |                |                   |              |
| 2022-05-25 11:19:00 | -9.55       | -45.875 | -118.125           | 304.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.3       | 0.43         | 0.12         | 0.00            | 26.26            | 10.4           | 0.00              | 33.8625      |
| 2022-05-25 11:20:00 | -13.55      | -51.625 | -125.7             | 274.75            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 21.5       | 0.43         | 0.05         | 0.00            | 27.53            | 10.19          | 0.00              | 33.6         |
| 2022-05-25 11:21:00 | -10.95      | -53.125 | -118.888           | 290.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.7       | 0.43         | 0.12         | 0.00            | 27.01            | 10.41          | 0.00              | 33.88875     |
| 2022-05-25 11:22:00 | -8.4        | -46.375 | -114.675           | 305.875           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.8       | 0.43         | 0.09         | 0.00            | 27.44            | 10.2           | 0.00              | 34.125       |
| 2022-05-25 11:23:00 | -5          | -39.375 | -106.875           | 321.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 29.5       | 0.43         | 0.05         | 0.00            | 28.98            | 10.17          | 0.00              | 34.9125      |
| 2022-05-25 11:24:00 | -14.2       | -54.25  | -127.613           | 299.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 31         | 0.43         | 0.09         | 0.00            | 45.37            | 9.74           | 0.00              | 35.175       |
| 2022-05-25 11:25:00 | -7.8        | -43.125 | -115.35            | 312.375           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.4       | 0.43         | 0.02         | 0.00            | 29.56            | 10.21          | 0.00              | 34.93875     |
| 2022-05-25 11:26:00 | -20.7       | -65.375 | -142.763           | 291.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.9       | 0.43         | 0.15         | 0.00            | 30.09            | 10.01          | 0.00              | 35.28        |
| 2022-05-25 11:27:00 | -11.35      | -50.375 | -122.888           | 297.5625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.9       | 0.43         | 0.15         | 0.00            | 30.09            | 10.01          | 0.00              | 35.28        |
| 2022-05-25 11:28:00 | -24.75      | -69.25  | -151.238           | 252.875           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.4       | 0.43         | 0.19         | 0.00            | 29.08            | 10.36          | 0.00              | 33.78375     |
| 2022-05-25 11:29:00 | -9.95       | -45.875 | -120.6             | 278.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.6       | 0.43         | 0.16         | 0.00            | 26.41            | 10.16          | 0.00              | 33.83625     |
| 2022-05-25 11:30:00 | -34.2       | -68.5   | -144.713           | 267               | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 28.2       | 0.43         | 0.29         | 0.00            | 33.51            | 9.95           | 0.00              | 34.965       |
| 2022-05-25 11:31:00 | -5.2        | -40.875 | -110.663           | 312.25            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25.9       | 0.43         | 0.02         | 0.00            | 29.89            | 9.96           | 0.00              | 34.665       |
| 2022-05-25 11:32:00 | -3.3        | -38.5   | -102.188           | 325.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 35.5       | 0.43         | 0.06         | 0.00            | 55.1             | 9.54           | 0.00              | 35.07        |
| 2022-05-25 11:33:00 | -9          | -48.5   | -116.85            | 302.75            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.1       | 0.43         | 0.03         | 0.00            | 60.28            | 9.76           | 0.00              | 34.8075      |
| 2022-05-25 11:34:00 | -4.8        | -40.375 | -110.25            | 314.5             | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 31.4       | 0.43         | 0.05         | 0.00            | 39.36            | 9.77           | 0.00              | 35.0175      |
| 2022-05-25 11:35:00 | -11.9       | -53     | -125.663           | 294.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24         | 0.43         | 0.05         | 0.00            | 46.68            | 10.18          | 0.00              | 34.51875     |
| 2022-05-25 11:36:00 | -8.5        | -45.875 | -118.725           | 305.75            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.5       | 0.43         | 0.11         | 0.00            | 32.51            | 9.98           | 0.00              | 34.335       |
| 2022-05-25 11:37:00 | -12.25      | -55     | -127.013           | 275.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24         | 0.43         | 0.11         | 0.00            | 33.13            | 9.77           | 0.00              | 34.1775      |
| 2022-05-25 11:38:00 | -7.1        | -45.375 | -115.688           | 286.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.4       | 0.43         | 0.15         | 0.00            | 27.7             | 10.18          | 0.00              | 34.3875      |
| 2022-05-25 11:39:00 | -7.35       | -46     | -114.225           | 305.3125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 27.9       | 0.43         | 0.12         | 0.00            | 35.66            | 9.77           | 0.00              | 34.0725      |
| 2022-05-25 11:40:00 | -1.35       | -35.25  | -104.138           | 320.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23         | 0.43         | 0.12         | 0.00            | 26.8             | 10.21          | 0.00              | 34.86        |
| 2022-05-25 11:41:00 | -13.7       | -51.875 | -127.05            | 298.375           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 33.7       | 0.43         | 0.1          | 0.00            | 36.82            | 9.81           | 0.00              | 34.41375     |
| 2022-05-25 11:42:00 | -6.8        | -43.25  | -112.425           | 308.75            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.1       | 0.43         | 0.02         | 0.00            | 39.57            | 10.02          | 0.00              | 34.965       |
| 2022-05-25 11:43:00 | -23.85      | -65.875 | -144.038           | 281.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 28.4       | 0.43         | 0.19         | 0.00            | 31.51            | 9.82           | 0.00              | 34.36125     |
| 2022-05-25 11:44:00 | -11.7       | -48.25  | -121.169           | 295.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23         | 0.43         | 0.12         | 0.00            | 26.8             | 10.21          | 0.00              | 34.86        |
| 2022-05-25 11:45:00 | -23.9       | -68.625 | -147.675           | 252.625           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25.3       | 0.43         | 0.16         | 0.00            | 27.18            | 10.21          | 0.00              | 33.705       |
| 2022-05-25 11:46:00 | -10.8       | -49.75  | -124.313           | 278.375           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.7       | 0.43         | 0.11         | 0.00            | 26.08            | 10.24          | 0.00              | 34.755       |
| 2022-05-25 11:47:00 | -16.15      | -66.625 | -136.763           | 269.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25.6       | 0.43         | 0.17         | 0.00            | 26.25            | 10.23          | 0.00              | 34.2825      |
| 2022-05-25 11:48:00 | -6.35       | -43.125 | -112.5             | 313.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.3       | 0.43         | 0.1          | 0.00            | 27.33            | 10.01          | 0.00              | 34.04625     |
| 2022-05-25 11:49:00 | -4.05       | -39.25  | -106.425           | 325.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 30.6       | 0.43         | 0.06         | 0.00            | 31.63            | 9.82           | 0.00              | 33.83625     |
| 2022-05-25 11:50:00 | -11.5       | -49.625 | -122.475           | 301.1875          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.6       | 0.43         | 0.05         | 0.00            | 35.62            | 10.08          | 0.00              | 34.5975      |
| 2022-05-25 11:51:00 | -6.85       | -42.25  | -112.275           | 312.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.6       | 0.43         | 0.05         | 0.00            | 31.95            | 10.07          | 0.00              | 33.88625     |
| 2022-05-25 11:52:00 | -14.45      | -54.75  | -129.3             | 289.625           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.6       | 0.43         | 0.09         | 0.00            | 33.94            | 10.44          | 0.00              | 34.1775      |
| 2022-05-25 11:53:00 | -11.7       | -51.5   | -122.963           | 299.625           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.5       | 0.43         | 0.09         | 0.00            | 27.43            | 10.23          | 0.00              | 34.25625     |
| 2022-05-25 11:54:00 | -12.9       | -55.125 | -130.538           | 270               | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.6       | 0.43         | 0.06         | 0.00            | 27.43            | 10.23          | 0.00              | 34.25625     |
| 2022-05-25 11:55:00 | -9.7        | -49.5   | -120.188           | 281.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26         | 0.43         | 0.12         | 0.00            | 29.72            | 10.26          | 0.00              | 34.2825      |
| 2022-05-25 11:56:00 | -10.5       | -49.75  | -122.55            | 304.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 28.2       | 0.43         | 0.15         | 0.00            | 36.09            | 9.86           | 0.00              | 33.5875      |
| 2022-05-25 11:57:00 | -5.45       | -42.5   | -110.438           | 315.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 30.1       | 0.43         | 0.06         | 0.00            | 31.06            | 10.05          | 0.00              | 33.67875     |
| 2022-05-25 11:58:00 | -20.3       | -63.875 | -139.313           | 292.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 33.4       | 0.43         | 0.19         | 0.00            | 49.81            | 9.65           | 0.00              | 34.20375     |
| 2022-05-25 11:59:00 | -10.85      | -50.125 | -117.263           | 304.1875          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.2       | 0.43         | 0.04         | 0.00            | 26.74            | 10.36          | 0.00              | 35.04375     |
| 2022-05-25 12:00:00 | -29.05      | -76.875 | -155.588           | 253.5             | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25.6       | 0.43         | 0.09         | 0.00            | 29.51            | 10.15          | 0.00              | 34.86625     |
| 2022-05-25 12:01:00 | -12.25      | -52     | -125.513           | 286.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 21.9       | 0.43         | 0.06         | 0.00            | 26.29            | 10.4           | 0.00              | 34.86        |
| 2022-05-25 12:02:00 | -25.15      | -69.375 | -149.663           | 247.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.9       | 0.43         | 0.12         | 0.00            | 25.42            | 10.4           | 0.00              | 35.30625     |
| 2022-05-25 12:03:00 | -13.8       | -51.375 | -126.15            | 274.4375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 21.8       | 0.43         | 0.1          | 0.00            | 28.2             | 10.4           | 0.00              | 34.86        |
| 2022-05-25 12:04:00 | -11.7       | -51.25  | -118.763           | 285.6875          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.3       | 0.43         | 0.12         | 0.00            | 26.72            | 10.4           | 0.00              | 33.83625     |
| 2022-05-25 12:05:00 | -8.8        | -47.75  | -117.863           | 308.9375          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.7       | 0.43         | 0.06         | 0.00            | 26.44            | 10.4           | 0.00              | 33.7575      |
| 2022-05-25 12:06:00 | -6.55       | -42.875 | -109.8             | 320.5             | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25.7       | 0.43         | 0.06         | 0.00            | 30.2             | 10.18          | 0.00              | 33.705       |
| 2022-05-25 12:07:00 | -13.3       | -53.875 | -126.638           | 300.5             | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22         | 0.43         | 0.0          | 0.00            | 30.05            | 10.41          | 0.00              | 34.545       |
| 2022-05-25 12:08:00 | -7.05       | -43.25  | -115.05            | 307.375           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 25         | 0.43         | 0.05         | 0.00            | 32.17            | 10.41          | 0.00              | 34.5975      |
| 2022-05-25 12:09:00 | -17.35      | -59.375 | -133.125           | 285.25            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.6       | 0.43         | 0.1          | 0.00            | 31.08            | 10.39          | 0.00              | 34.99125     |
| 2022-05-25 12:10:00 | -10.55      | -49.625 | -122.813           | 295.5             | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 22.5       | 0.43         | 0.1          | 0.00            | 31.69            | 10.65          | 0.00              | 34.99125     |
| 2022-05-25 12:11:00 | -16.9       | -60.75  | -135.875           | 269.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 27.9       | 0.43         | 0.09         | 0.00            | 36.51            | 10.21          | 0.00              | 35.04375     |
| 2022-05-25 12:12:00 | -11         | -53.125 | -124.388           | 281               | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.2       | 0.43         | 0.09         | 0.00            | 30.76            | 10.42          | 0.00              | 33.78375     |
| 2022-05-25 12:13:00 | -14.1       | -54.625 | -125.813           | 302.875           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 27.8       | 0.43         | 0.21         | 0.00            | 30.41            | 10.02          | 0.00              | 35.0175      |
| 2022-05-25 12:14:00 | -6.15       | -44     | -116.125           | 317.0625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 28.6       | 0.43         | 0.09         | 0.00            | 29.22            | 10.42          | 0.00              | 34.02        |
| 2022-05-25 12:15:00 | -21.95      | -64.75  | -146.738           | 280.75            | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 33.3       | 0.43         | 0.21         | 0.00            | 56.86            | 9.77           | 0.00              | 33.99375     |
| 2022-05-25 12:16:00 | -11.2       | -52.75  | -121.95            | 305.5625          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 31.1       | 0.43         | 0.09         | 0.00            | 30.51            | 10.23          | 0.00              | 35.09625     |
| 2022-05-25 12:17:00 | -27.95      | -77.875 | -157.913           | 258.125           | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 24.5       | 0.43         | 0.17         | 0.00            | 40.06            | 9.81           | 0.00              | 34.04625     |
| 2022-05-25 12:18:00 | -11.55      | -54.25  | -128.475           | 295               | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 23.5       | 0.43         | 0.05         | 0.00            | 31.94            | 10.32          | 0.00              | 34.83375     |
| 2022-05-25 12:19:00 | -19.35      | -68.5   | -138.375           | 265.8125          | -0.01 | 0.00           | 0.00            | 0.00          | 0.00          | 26.8       | 0.43         | 0.12         | 0.00            | 30.45            | 10.1           | 0.00              | 35.04375     |

| Test | Incinerator |  | SDA Inlet |  | BH Inlet |  | Main CO<br>PPM | Main HCl<br>PPM | Main CO2<br>% | Main H2O<br>% | THC<br>PPM | Main O2<br>% | Opacity<br>% | Main SO2<br>PPM | Backup CO<br>PPM | Backup O2<br>% |  |
|------|-------------|--|-----------|--|----------|--|----------------|-----------------|---------------|---------------|------------|--------------|--------------|-----------------|------------------|----------------|--|
|------|-------------|--|-----------|--|----------|--|----------------|-----------------|---------------|---------------|------------|--------------|--------------|-----------------|------------------|----------------|--|

| \$Date              | Incinerator |         | SDA Inlet |          | BH Inlet |        | BH OP |         | Main CO |            | Main HCl |             | Main CO2 |             | Main H2O |          | THC  |            | Main O2 |             | Opacity |        | Main SO2 |            | Backup CO |            | Backup O2 |             | Backup SO2 |            | PAC    |           |           |
|---------------------|-------------|---------|-----------|----------|----------|--------|-------|---------|---------|------------|----------|-------------|----------|-------------|----------|----------|------|------------|---------|-------------|---------|--------|----------|------------|-----------|------------|-----------|-------------|------------|------------|--------|-----------|-----------|
|                     | mmH2O       | PT-242A | mmH2O     | PT-249   | mmH2O    | PT-615 | mmH2O | POT-622 | PPM     | AT-205-NEW | PPM      | AT-213A-NEW | %        | AT-213B-NEW | %        | AT-213CB | PPM  | AT-259-NEW | %       | AT-261A-NEW | %       | AT-263 | PPM      | AT-264-NEW | PPM       | AT-205-NEW | %         | AT-261A-NEW | PPM        | AT-264-NEW | PPM    | SC-PAC-FT | SC-PAC-FT |
| 2022-05-25 12:37:00 | -11.65      | -53.25  | -128.175  | 275.6875 | 0        | 0      | 0     | 0.08    | 0       | 0.08       | 0        | 0           | 0        | 0           | 0.08     | 0        | 22.1 | 0.43       | 0.05    | 0           | 29.29   | 9.98   | 0        | 34.965     | 0         | 29.29      | 10.17     | 0           | 34.965     | 0          | 34.965 | 0         | 34.965    |
| 2022-05-25 12:38:00 | -9.05       | -51     | -119.775  | 285.4375 | -0.01    | 0      | 0.09  | 25.6    | 0.09    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 25.6     | 0.43 | 0.09       | 0       | 27.67       | 10.17   | 0      | 35.175   | 0          | 27.67     | 10.17      | 0         | 35.175      | 0          | 35.175     | 0      | 35.175    |           |
| 2022-05-25 12:39:00 | -7.2        | -47.375 | -116.738  | 308.4375 | -0.01    | 0      | 0.09  | 31.4    | 0.06    | 0.08       | 0        | 0           | 0        | 0           | 0.08     | 31.4     | 0.43 | 0.06       | 0       | 34.65       | 9.95    | 0      | 34.4925  | 0          | 34.65     | 9.95       | 0         | 34.4925     | 0          | 34.4925    | 0      | 34.4925   |           |
| 2022-05-25 12:40:00 | -4.05       | -41.375 | -108.263  | 320.125  | -0.01    | 0      | 0.08  | 26.4    | 0.08    | 0.08       | 0        | 0           | 0        | 0           | 0.08     | 26.4     | 0.43 | 0.08       | 0       | 44.36       | 9.53    | 0      | 33.57375 | 0          | 44.36     | 9.53       | 0         | 33.57375    | 0          | 33.57375   | 0      | 33.57375  |           |
| 2022-05-25 12:41:00 | -10.85      | -53.5   | -124.388  | 295.3125 | -0.01    | 0      | 0.09  | 26.9    | 0.09    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 26.9     | 0.43 | 0.06       | 0       | 28.22       | 9.97    | 0      | 35.0175  | 0          | 28.22     | 9.97       | 0         | 35.0175     | 0          | 35.0175    | 0      | 35.0175   |           |
| 2022-05-25 12:42:00 | -17         | -62.75  | -137.738  | 291.9375 | -0.01    | 0      | 0.09  | 27.4    | 0.09    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 27.4     | 0.43 | 0.16       | 0       | 36.57       | 9.77    | 0      | 33.7875  | 0          | 36.57     | 9.77       | 0         | 33.7875     | 0          | 33.7875    | 0      | 33.7875   |           |
| 2022-05-25 12:44:00 | -10.1       | -51     | -124.538  | 297.3125 | -0.01    | 0      | 0.08  | 23.5    | 0.43    | 0.11       | 0        | 0           | 0        | 0           | 0.08     | 23.5     | 0.43 | 0.11       | 0       | 26.06       | 10.33   | 0      | 34.41375 | 0          | 26.06     | 10.33      | 0         | 34.41375    | 0          | 34.41375   | 0      | 34.41375  |           |
| 2022-05-25 12:46:00 | -17.65      | -60.875 | -135.863  | 268.375  | -0.01    | 0      | 0.08  | 24.5    | 0.08    | 0.12       | 0        | 0           | 0        | 0           | 0.08     | 24.5     | 0.43 | 0.15       | 0       | 26.93       | 10.12   | 0      | 33.78375 | 0          | 26.93     | 10.12      | 0         | 33.78375    | 0          | 33.78375   | 0      | 33.78375  |           |
| 2022-05-25 12:47:00 | -21.6       | -59.75  | -136.338  | 292      | -0.01    | 0      | 0.08  | 23.8    | 0.43    | 0.11       | 0        | 0           | 0        | 0           | 0.08     | 23.8     | 0.43 | 0.11       | 0       | 28.14       | 10.56   | 0      | 34.0725  | 0          | 28.14     | 10.56      | 0         | 34.0725     | 0          | 34.0725    | 0      | 34.0725   |           |
| 2022-05-25 12:48:00 | -8.4        | -44.875 | -115.588  | 310.25   | -0.01    | 0      | 0.08  | 24.4    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 24.4     | 0.43 | 0.09       | 0       | 26.03       | 10.56   | 0      | 34.965   | 0          | 26.03     | 10.56      | 0         | 34.965      | 0          | 34.965     | 0      | 34.965    |           |
| 2022-05-25 12:49:00 | -30.45      | -77.25  | -158.475  | 260.9375 | -0.01    | 0      | 0.08  | 27      | 0.08    | 0.21       | 0        | 0           | 0        | 0           | 0.08     | 27       | 0.43 | 0.21       | 0       | 30.78       | 10.15   | 0      | 34.86    | 0          | 30.78     | 10.15      | 0         | 34.86       | 0          | 34.86      | 0      | 34.86     |           |
| 2022-05-25 12:50:00 | -13.05      | -50.75  | -122.925  | 301.4375 | -0.01    | 0      | 0.08  | 24.8    | 0.43    | 0.06       | 0        | 0           | 0        | 0           | 0.08     | 24.8     | 0.43 | 0.06       | 0       | 26.19       | 10.4    | 0      | 33.6725  | 0          | 26.19     | 10.4       | 0         | 33.6725     | 0          | 33.6725    | 0      | 33.6725   |           |
| 2022-05-25 12:52:00 | -19.65      | -69.5   | -138.038  | 271.3125 | -0.01    | 0      | 0.08  | 24.8    | 0.43    | 0.1        | 0        | 0           | 0        | 0           | 0.08     | 24.8     | 0.43 | 0.1        | 0       | 33.56       | 10.61   | 0      | 34.9375  | 0          | 33.56     | 10.61      | 0         | 34.9375     | 0          | 34.9375    | 0      | 34.9375   |           |
| 2022-05-25 12:53:00 | -17.25      | -60     | -134.588  | 289.5625 | -0.01    | 0      | 0.08  | 20.8    | 0.43    | 0.05       | 0        | 0           | 0        | 0           | 0.08     | 20.8     | 0.43 | 0.05       | 0       | 32.15       | 10.87   | 0      | 35.20375 | 0          | 32.15     | 10.87      | 0         | 35.20375    | 0          | 35.20375   | 0      | 35.20375  |           |
| 2022-05-25 12:54:00 | -14.05      | -54.25  | -126.45   | 301.6875 | -0.01    | 0      | 0.08  | 23.5    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 23.5     | 0.43 | 0.09       | 0       | 38.43       | 10.87   | 0      | 33.7875  | 0          | 38.43     | 10.87      | 0         | 33.7875     | 0          | 33.7875    | 0      | 33.7875   |           |
| 2022-05-25 12:55:00 | -18.05      | -58.875 | -133.688  | 269.875  | -0.01    | 0      | 0.08  | 21      | 0.08    | 0.43       | 0.1      | 0           | 0        | 0           | 0.08     | 21       | 0.43 | 0.1        | 0       | 36.19       | 10.66   | 0      | 33.915   | 0          | 36.19     | 10.66      | 0         | 33.915      | 0          | 33.915     | 0      | 33.915    |           |
| 2022-05-25 12:56:00 | -13.2       | -52     | -126.788  | 281.1875 | -0.01    | 0      | 0.09  | 22.4    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 22.4     | 0.43 | 0.09       | 0       | 36.66       | 10.9    | 0      | 33.9675  | 0          | 36.66     | 10.9       | 0         | 33.9675     | 0          | 33.9675    | 0      | 33.9675   |           |
| 2022-05-25 12:57:00 | -12.4       | -50.625 | -123.075  | 302.375  | -0.01    | 0      | 0.09  | 22.4    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 22.4     | 0.43 | 0.09       | 0       | 36.28       | 10.69   | 0      | 35.0925  | 0          | 36.28     | 10.69      | 0         | 35.0925     | 0          | 35.0925    | 0      | 35.0925   |           |
| 2022-05-25 12:58:00 | -8.7        | -47.25  | -114.938  | 315.0625 | -0.01    | 0      | 0.08  | 25.1    | 0.08    | 0.06       | 0        | 0           | 0        | 0           | 0.08     | 25.1     | 0.43 | 0.06       | 0       | 44.38       | 10.67   | 0      | 34.9875  | 0          | 44.38     | 10.67      | 0         | 34.9875     | 0          | 34.9875    | 0      | 34.9875   |           |
| 2022-05-25 12:59:00 | -17.75      | -61.75  | -133.913  | 297.3125 | -0.01    | 0      | 0.08  | 25.1    | 0.08    | 0.06       | 0        | 0           | 0        | 0           | 0.08     | 25.1     | 0.43 | 0.06       | 0       | 42.75       | 10.72   | 0      | 34.51875 | 0          | 42.75     | 10.72      | 0         | 34.51875    | 0          | 34.51875   | 0      | 34.51875  |           |
| 2022-05-25 13:00:00 | -15.85      | -55     | -125.438  | 310.25   | -0.01    | 0      | 0.08  | 23.2    | 0.43    | 0.12       | 0        | 0           | 0        | 0           | 0.08     | 23.2     | 0.43 | 0.12       | 0       | 35.56       | 10.52   | 0      | 34.545   | 0          | 35.56     | 10.52      | 0         | 34.545      | 0          | 34.545     | 0      | 34.545    |           |
| 2022-05-25 13:01:00 | -21.4       | -67     | -143.738  | 285.375  | -0.01    | 0      | 0.09  | 23.6    | 0.43    | 0.12       | 0        | 0           | 0        | 0           | 0.09     | 23.6     | 0.43 | 0.12       | 0       | 40.8        | 11.02   | 0      | 33.7575  | 0          | 40.8      | 11.02      | 0         | 33.7575     | 0          | 33.7575    | 0      | 33.7575   |           |
| 2022-05-25 13:02:00 | -15.35      | -55.25  | -129.3    | 292.0625 | -0.01    | 0      | 0.08  | 23.6    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 23.6     | 0.43 | 0.09       | 0       | 39.55       | 11.02   | 0      | 34.9375  | 0          | 39.55     | 11.02      | 0         | 34.9375     | 0          | 34.9375    | 0      | 34.9375   |           |
| 2022-05-25 13:03:00 | -15.45      | -58     | -131.7    | 279.25   | -0.01    | 0      | 0.08  | 24.6    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 24.6     | 0.43 | 0.09       | 0       | 36.43       | 10.85   | 0      | 35.0925  | 0          | 36.43     | 10.85      | 0         | 35.0925     | 0          | 35.0925    | 0      | 35.0925   |           |
| 2022-05-25 13:04:00 | -31.9       | -78.75  | -162.675  | 265.375  | -0.01    | 0      | 0.08  | 25.5    | 0.08    | 0.43       | 0.19     | 0           | 0        | 0           | 0.08     | 25.5     | 0.43 | 0.19       | 0       | 44.09       | 10.61   | 0      | 34.0625  | 0          | 44.09     | 10.61      | 0         | 34.0625     | 0          | 34.0625    | 0      | 34.0625   |           |
| 2022-05-25 13:05:00 | -11.1       | -51     | -121.05   | 310.4375 | -0.01    | 0      | 0.08  | 24.6    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 24.6     | 0.43 | 0.09       | 0       | 36.43       | 10.85   | 0      | 35.0925  | 0          | 36.43     | 10.85      | 0         | 35.0925     | 0          | 35.0925    | 0      | 35.0925   |           |
| 2022-05-25 13:06:00 | -28.65      | -77.75  | -158.588  | 281.0625 | -0.01    | 0      | 0.08  | 28.3    | 0.43    | 0.15       | 0        | 0           | 0        | 0           | 0.08     | 28.3     | 0.43 | 0.15       | 0       | 44.88       | 10.82   | 0      | 34.15125 | 0          | 44.88     | 10.82      | 0         | 34.15125    | 0          | 34.15125   | 0      | 34.15125  |           |
| 2022-05-25 13:07:00 | -11.2       | -53.125 | -126.525  | 298.4375 | -0.01    | 0      | 0.08  | 23.9    | 0.43    | 0.04       | 0        | 0           | 0        | 0           | 0.08     | 23.9     | 0.43 | 0.04       | 0       | 37.56       | 10.47   | 0      | 34.8075  | 0          | 37.56     | 10.47      | 0         | 34.8075     | 0          | 34.8075    | 0      | 34.8075   |           |
| 2022-05-25 13:08:00 | -9.4        | -49.125 | -118.388  | 310.0625 | -0.01    | 0      | 0.09  | 27.1    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.09     | 27.1     | 0.43 | 0.09       | 0       | 44.48       | 10.48   | 0      | 33.7575  | 0          | 44.48     | 10.48      | 0         | 33.7575     | 0          | 33.7575    | 0      | 33.7575   |           |
| 2022-05-25 13:09:00 | -16.55      | -59     | -134.663  | 284.75   | -0.01    | 0      | 0.08  | 12      | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 12       | 0.43 | 0.09       | 0       | 35.5        | 10.81   | 0      | 34.9875  | 0          | 35.5      | 10.81      | 0         | 34.9875     | 0          | 34.9875    | 0      | 34.9875   |           |
| 2022-05-25 13:10:00 | -14.35      | -58.125 | -130.575  | 301.9375 | -0.01    | 0      | 0.09  | 9.2     | 0.43    | 0.12       | 0        | 0           | 0        | 0           | 0.09     | 9.2      | 0.43 | 0.12       | 0       | 39.55       | 11.02   | 0      | 33.9675  | 0          | 39.55     | 11.02      | 0         | 33.9675     | 0          | 33.9675    | 0      | 33.9675   |           |
| 2022-05-25 13:11:00 | -14.4       | -58.75  | -132.45   | 267.3125 | -0.01    | 0      | 0.08  | 8.3     | 0.43    | 0.05       | 0        | 0           | 0        | 0           | 0.08     | 8.3      | 0.43 | 0.05       | 0       | 34.04625    | 10.33   | 0      | 35.07    | 0          | 34.04625  | 10.33      | 0         | 35.07       | 0          | 35.07      | 0      | 35.07     |           |
| 2022-05-25 13:12:00 | -9.95       | -53.125 | -122.138  | 302.5625 | -0.01    | 0      | 0.08  | 25.1    | 0.08    | 0.43       | 0.15     | 0           | 0        | 0           | 0.08     | 25.1     | 0.43 | 0.15       | 0       | 38.16       | 10.33   | 0      | 34.1775  | 0          | 38.16     | 10.33      | 0         | 34.1775     | 0          | 34.1775    | 0      | 34.1775   |           |
| 2022-05-25 13:13:00 | -6.3        | -45.125 | -116.213  | 320.3125 | -0.01    | 0      | 0.08  | 31.8    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 31.8     | 0.43 | 0.09       | 0       | 34.1        | 10.1    | 0      | 35.23375 | 0          | 34.1      | 10.1       | 0         | 35.23375    | 0          | 35.23375   | 0      | 35.23375  |           |
| 2022-05-25 13:14:00 | -14.5       | -60     | -134.4    | 295.8125 | -0.01    | 0      | 0.08  | -0.01   | 0       | 0.08       | 0.43     | 0.15        | 0        | 0           | 0.08     | -0.01    | 0.43 | 0.15       | 0       | 40.8        | 10.23   | 0      | 34.545   | 0          | 40.8      | 10.23      | 0         | 34.545      | 0          | 34.545     | 0      | 34.545    |           |
| 2022-05-25 13:15:00 | -7.65       | -50.25  | -119.325  | 306.1875 | -0.01    | 0      | 0.09  | 28.5    | 0.43    | 0.02       | 0        | 0           | 0        | 0           | 0.09     | 28.5     | 0.43 | 0.02       | 0       | 55.92       | 9.69    | 0      | 33.7575  | 0          | 55.92     | 9.69       | 0         | 33.7575     | 0          | 33.7575    | 0      | 33.7575   |           |
| 2022-05-25 13:16:00 | -18.45      | -62.5   | -142.275  | 286.6875 | -0.01    | 0      | 0.09  | 29.6    | 0.43    | 0.12       | 0        | 0           | 0        | 0           | 0.09     | 29.6     | 0.43 | 0.12       | 0       | 41.75       | 9.9     | 0      | 34.4925  | 0          | 41.75     | 9.9        | 0         | 34.4925     | 0          | 34.4925    | 0      | 34.4925   |           |
| 2022-05-25 13:17:00 | -11.3       | -54     | -128.813  | 283.8125 | -0.01    | 0      | 0.08  | 24.6    | 0.43    | 0.09       | 0        | 0           | 0        | 0           | 0.08     | 24.6     | 0.43 | 0.09       | 0       | 28.49       | 10.4    | 0      | 33.8875  | 0          | 28.49     | 10.4       | 0         | 33.8875     | 0          | 33.8875    | 0      | 33.8875   |           |
| 2022-05-25 13:18:00 | -33.65      | -69.125 | -150.113  | 257.375  | -0.01    | 0      | 0.08  | 26.9    | 0.43    | 0.12       | 0        | 0           | 0        | 0           | 0.08     | 26.9     | 0.43 | 0.         |         |             |         |        |          |            |           |            |           |             |            |            |        |           |           |

| Date       | Time       | Incinerator        |                   |                | Main CO2        |                 |               | Main HCl   |                 |              | Main H2O      |                 |               | THC        |                 |              | Main SO2      |                 |               | Backup CO2 |                   |                   | Backup SO2        |                 |                   |                   |                   |                 |
|------------|------------|--------------------|-------------------|----------------|-----------------|-----------------|---------------|------------|-----------------|--------------|---------------|-----------------|---------------|------------|-----------------|--------------|---------------|-----------------|---------------|------------|-------------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-----------------|
|            |            | SDA Inlet<br>mmH2O | BH Inlet<br>mmH2O | BH OP<br>mmH2O | Main CO2<br>PPM | Main HCl<br>PPM | Main H2O<br>% | THC<br>PPM | Main SO2<br>PPM | Opacity<br>% | Main CO2<br>% | Main HCl<br>PPM | Main H2O<br>% | THC<br>PPM | Main SO2<br>PPM | Opacity<br>% | Main CO2<br>% | Main HCl<br>PPM | Main H2O<br>% | THC<br>PPM | Backup CO2<br>PPM | Backup SO2<br>PPM | Backup HCl<br>PPM | Backup H2O<br>% | Backup THC<br>PPM | Backup SO2<br>PPM | Backup HCl<br>PPM | Backup H2O<br>% |
| 2022-05-25 | 14:00:00   | -13.6              | 56.625            | -138.875       | 285.1875        | -0.01           | 0             | 0.09       | 22.5            | 0.43         | 0.02          | 0.09            | 23.84         | 0.02       | 0.43            | 0.09         | 23.84         | 0.02            | 0.43          | 0.09       | 23.84             | 10.17             | 0                 | 34.25625        | 0                 | 33.88875          | 0                 | 34.04625        |
| 2022-05-25 | 14:01:00   | -9.4               | 52.125            | -126.525       | 298.625         | -0.01           | 0             | 0.08       | 23.4            | 0.43         | 0.09          | 0.08            | 23.4          | 0.09       | 0.43            | 0.06         | 23.76         | 0.09            | 0.43          | 0.06       | 23.76             | 10.4              | 0                 | 34.04625        | 0                 | 34.04625          | 0                 | 35.04375        |
| 2022-05-25 | 14:02:00   | -13.85             | 57.125            | -134.125       | 266.9375        | -0.01           | 0             | 0.09       | 23.6            | 0.43         | 0.12          | 0.09            | 23.6          | 0.09       | 0.43            | 0.12         | 23.95         | 0.10            | 0.43          | 0.12       | 23.95             | 10.19             | 0                 | 35.04375        | 0                 | 35.04375          | 0                 | 35.04375        |
| 2022-05-25 | 14:03:00   | -8.15              | 48                | -122.963       | 277.75          | -0.01           | 0             | 0.08       | 24.9            | 0.43         | 0.12          | 0.08            | 24.9          | 0.08       | 0.43            | 0.12         | 25.15         | 0.08            | 0.43          | 0.12       | 25.15             | 10.4              | 0                 | 34.545          | 0                 | 34.545            | 0                 | 35.0175         |
| 2022-05-25 | 14:04:00   | -4.2               | 42.125            | -112.5         | 313.875         | -0.01           | 0             | 0.08       | 28.2            | 0.43         | 0.21          | 0.08            | 28.2          | 0.08       | 0.43            | 0.21         | 30.32         | 0.08            | 0.43          | 0.21       | 30.32             | 9.77              | 0                 | 35.07           | 0                 | 35.07             | 0                 | 34.86           |
| 2022-05-25 | 14:05:00   | -6.2               | 46.25             | -119.738       | 302.25          | -0.01           | 0             | 0.09       | 24.3            | 0.43         | 0.16          | 0.09            | 24.3          | 0.09       | 0.43            | 0.16         | 24.38         | 0.09            | 0.43          | 0.16       | 24.38             | 10.26             | 0                 | 33.73125        | 0                 | 33.9675           | 0                 | 34.65           |
| 2022-05-25 | 14:06:00   | -25.45             | 75.125            | -158.625       | 254             | -0.01           | 0             | 0.08       | 27.6            | 0.43         | 0.12          | 0.08            | 27.6          | 0.08       | 0.43            | 0.12         | 28.53         | 0.08            | 0.43          | 0.12       | 28.53             | 10.32             | 0                 | 33.67875        | 0                 | 33.67875          | 0                 | 34.36125        |
| 2022-05-25 | 14:07:00   | -11.4              | 54                | -126.938       | 290.3125        | -0.01           | 0             | 0.09       | 24.8            | 0.43         | 0.16          | 0.09            | 24.8          | 0.09       | 0.43            | 0.16         | 24.74         | 0.09            | 0.43          | 0.16       | 24.74             | 10.11             | 0                 | 33.67875        | 0                 | 33.67875          | 0                 | 34.7025         |
| 2022-05-25 | 14:08:00   | -10.1              | 54.375            | -126.288       | 271.875         | -0.01           | 0             | 0.09       | 22.2            | 0.43         | 0.09          | 0.09            | 22.2          | 0.09       | 0.43            | 0.09         | 23.84         | 0.09            | 0.43          | 0.09       | 23.84             | 10.11             | 0                 | 33.67875        | 0                 | 33.67875          | 0                 | 34.9125         |
| 2022-05-25 | 14:09:00   | -7.35              | 48.75             | -118.888       | 305.1875        | -0.01           | 0             | 0.08       | 23.1            | 0.43         | 0.12          | 0.08            | 23.1          | 0.08       | 0.43            | 0.12         | 25.01         | 0.08            | 0.43          | 0.12       | 25.01             | 10.1              | 0                 | 34.36125        | 0                 | 34.36125          | 0                 | 34.9125         |
| 2022-05-25 | 14:10:00   | -3.9               | 45.125            | -113.663       | 324.4375        | -0.01           | 0             | 0.08       | 29.2            | 0.43         | 0.09          | 0.08            | 29.2          | 0.08       | 0.43            | 0.09         | 28.24         | 0.08            | 0.43          | 0.09       | 28.24             | 10.1              | 0                 | 34.9125         | 0                 | 34.9125           | 0                 | 34.9125         |
| 2022-05-25 | 14:11:00   | -10.85             | 55                | -127.875       | 296.6875        | -0.01           | 0             | 0.09       | 22.7            | 0.43         | 0.05          | 0.09            | 22.7          | 0.09       | 0.43            | 0.05         | 34.25         | 0.09            | 0.43          | 0.05       | 34.25             | 10.12             | 0                 | 34.25625        | 0                 | 34.25625          | 0                 | 34.965          |
| 2022-05-25 | 14:12:00   | -7.5               | 48                | -119.888       | 310.1875        | -0.01           | 0             | 0.09       | 26              | 0.43         | 0.09          | 0.09            | 26            | 0.09       | 0.43            | 0.09         | 25.32         | 0.09            | 0.43          | 0.09       | 25.32             | 10.11             | 0                 | 34.965          | 0                 | 34.965            | 0                 | 35.07           |
| 2022-05-25 | 14:13:00   | -15.65             | 58.5              | -137.363       | 285.25          | -0.01           | 0             | 0.08       | 23.8            | 0.43         | 0.12          | 0.08            | 23.8          | 0.08       | 0.43            | 0.12         | 26.86         | 0.08            | 0.43          | 0.12       | 26.86             | 10.11             | 0                 | 35.07           | 0                 | 35.07             | 0                 | 34.1775         |
| 2022-05-25 | 14:14:00   | -10.7              | 51.875            | -125.813       | 294.6875        | -0.01           | 0             | 0.09       | 23.7            | 0.43         | 0.15          | 0.09            | 23.7          | 0.09       | 0.43            | 0.15         | 23.86         | 0.09            | 0.43          | 0.15       | 23.86             | 10.38             | 0                 | 34.1775         | 0                 | 34.1775           | 0                 | 34.9125         |
| 2022-05-25 | 14:15:00   | -5.05              | 46.75             | -116.888       | 315.1875        | -0.01           | 0             | 0.08       | 26.6            | 0.43         | 0.09          | 0.08            | 26.6          | 0.08       | 0.43            | 0.09         | 24.59         | 0.08            | 0.43          | 0.09       | 24.59             | 10.19             | 0                 | 34.9125         | 0                 | 34.9125           | 0                 | 34.9125         |
| 2022-05-25 | 14:16:00   | -10.35             | 51.25             | -128.588       | 301.125         | -0.01           | 0             | 0.09       | 24.2            | 0.43         | 0.16          | 0.09            | 24.2          | 0.09       | 0.43            | 0.16         | 23.88         | 0.09            | 0.43          | 0.16       | 23.88             | 10.4              | 0                 | 33.94125        | 0                 | 33.94125          | 0                 | 34.9125         |
| 2022-05-25 | 14:17:00   | -20.25             | 65.5              | -149.363       | 277.375         | -0.01           | 0             | 0.08       | 28.8            | 0.43         | 0.17          | 0.08            | 28.8          | 0.08       | 0.43            | 0.17         | 36.28         | 0.08            | 0.43          | 0.17       | 36.28             | 9.77              | 0                 | 34.965          | 0                 | 34.965            | 0                 | 33.9375         |
| 2022-05-25 | 14:18:00   | -9.4               | 51.25             | -123.975       | 302.375         | -0.01           | 0             | 0.08       | 24              | 0.43         | 0.02          | 0.08            | 24            | 0.08       | 0.43            | 0.02         | 24.84         | 0.08            | 0.43          | 0.02       | 24.84             | 10.24             | 0                 | 33.9375         | 0                 | 33.9375           | 0                 | 34.925          |
| 2022-05-25 | 14:19:00   | -28.15             | 78.5              | -161.063       | 257.8125        | -0.01           | 0             | 0.08       | 26.4            | 0.43         | 0.12          | 0.08            | 26.4          | 0.08       | 0.43            | 0.12         | 26.85         | 0.08            | 0.43          | 0.12       | 26.85             | 10                | 0                 | 34.925          | 0                 | 34.925            | 0                 | 34.925          |
| 2022-05-25 | 14:20:00   | -6.65              | 46.5              | -118.313       | 304.6875        | -0.01           | 0             | 0.09       | 28.6            | 0.43         | 0.11          | 0.09            | 28.6          | 0.09       | 0.43            | 0.11         | 25.86         | 0.09            | 0.43          | 0.11       | 25.86             | 10.09             | 0                 | 34.99125        | 0                 | 34.99125          | 0                 | 34.99125        |
| 2022-05-25 | 14:21:00   | -6.5               | 44                | -114.713       | 322.4375        | -0.01           | 0             | 0.08       | 24.9            | 0.43         | 0.15          | 0.08            | 24.9          | 0.08       | 0.43            | 0.15         | 25.46         | 0.08            | 0.43          | 0.15       | 25.46             | 10.27             | 0                 | 35.09625        | 0                 | 35.09625          | 0                 | 35.09625        |
| 2022-05-25 | 14:22:00   | -11.3              | 53.625            | -129.825       | 290.625         | -0.01           | 0             | 0.08       | 22.3            | 0.43         | 0.09          | 0.08            | 22.3          | 0.08       | 0.43            | 0.09         | 24.34         | 0.08            | 0.43          | 0.09       | 24.34             | 10.12             | 0                 | 33.81           | 0                 | 33.81             | 0                 | 34.1525         |
| 2022-05-25 | 14:23:00   | -14.2              | 66.75             | -139.875       | 261.25          | -0.01           | 0             | 0.09       | 21.7            | 0.43         | 0.12          | 0.09            | 21.7          | 0.09       | 0.43            | 0.12         | 24.13         | 0.09            | 0.43          | 0.12       | 24.13             | 10.07             | 0                 | 33.7825         | 0                 | 33.7825           | 0                 | 33.7825         |
| 2022-05-25 | 14:24:00   | -12.75             | 54.25             | -129.6         | 273             | -0.01           | 0             | 0.09       | 24.7            | 0.43         | 0.19          | 0.09            | 24.7          | 0.09       | 0.43            | 0.19         | 23.93         | 0.09            | 0.43          | 0.19       | 23.93             | 10.33             | 0                 | 34.1525         | 0                 | 34.1525           | 0                 | 34.1525         |
| 2022-05-25 | 14:25:00   | -9.75              | 53                | -124.463       | 289.625         | -0.01           | 0             | 0.08       | 22.2            | 0.43         | 0.15          | 0.08            | 22.2          | 0.08       | 0.43            | 0.15         | 23.43         | 0.08            | 0.43          | 0.15       | 23.43             | 10.47             | 0                 | 33.88875        | 0                 | 33.88875          | 0                 | 33.88875        |
| 2022-05-25 | 14:26:00   | -6.4               | 47.125            | -117.563       | 313.5           | -0.01           | 0             | 0.09       | 24.3            | 0.43         | 0.22          | 0.09            | 24.3          | 0.09       | 0.43            | 0.22         | 23.09         | 0.09            | 0.43          | 0.22       | 23.09             | 10.72             | 0                 | 34.04625        | 0                 | 34.04625          | 0                 | 34.04625        |
| 2022-05-25 | 14:27:00   | -17.05             | 58.5              | -139.313       | 266.6875        | -0.01           | 0             | 0.08       | 28.4            | 0.43         | 0.06          | 0.08            | 28.4          | 0.08       | 0.43            | 0.06         | 27.9          | 0.08            | 0.43          | 0.06       | 27.9              | 10.11             | 0                 | 35.09625        | 0                 | 35.09625          | 0                 | 35.09625        |
| 2022-05-25 | 14:28:00   | -13.3              | 53.5              | -132.113       | 296.375         | -0.01           | 0             | 0.09       | 24.3            | 0.43         | 0.12          | 0.09            | 24.3          | 0.09       | 0.43            | 0.12         | 24.66         | 0.09            | 0.43          | 0.12       | 24.66             | 10.33             | 0                 | 34.04625        | 0                 | 34.04625          | 0                 | 34.04625        |
| 2022-05-25 | 14:29:00   | -6.4               | 47.125            | -117.563       | 313.5           | -0.01           | 0             | 0.08       | 28.4            | 0.43         | 0.06          | 0.08            | 28.4          | 0.08       | 0.43            | 0.06         | 27.9          | 0.08            | 0.43          | 0.06       | 27.9              | 10.11             | 0                 | 35.09625        | 0                 | 35.09625          | 0                 | 35.09625        |
| 2022-05-25 | 14:30:00   | -9.7               | 48.625            | -124.313       | 304.25          | -0.01           | 0             | 0.09       | 22.6            | 0.43         | 0.06          | 0.09            | 22.6          | 0.09       | 0.43            | 0.06         | 24.66         | 0.09            | 0.43          | 0.06       | 24.66             | 10.12             | 0                 | 34.2825         | 0                 | 34.2825           | 0                 | 33.7825         |
| 2022-05-25 | 14:31:00   | -25.5              | 73.125            | -159.9         | 259.1875        | -0.01           | 0             | 0.08       | 25.7            | 0.43         | 0.11          | 0.08            | 25.7          | 0.08       | 0.43            | 0.11         | 24.01         | 0.08            | 0.43          | 0.11       | 24.01             | 10.6              | 0                 | 35.14875        | 0                 | 35.14875          | 0                 | 35.14875        |
| 2022-05-25 | 14:32:00   | -15.25             | 60                | -134.025       | 291.9375        | -0.01           | 0             | 0.09       | 21.1            | 0.43         | 0.09          | 0.09            | 21.1          | 0.09       | 0.43            | 0.09         | 24.66         | 0.09            | 0.43          | 0.09       | 24.66             | 10.6              | 0                 | 33.705          | 0                 | 33.705            | 0                 | 33.915          |
| 2022-05-25 | 14:33:00   | -12.15             | 53                | -127.013       | 303.875         | -0.01           | 0             | 0.08       | 23.3            | 0.43         | 0.15          | 0.08            | 23.3          | 0.08       | 0.43            | 0.15         | 23.58         | 0.08            | 0.43          | 0.15       | 23.58             | 10.8              | 0                 | 33.7825         | 0                 | 33.7825           | 0                 | 33.7825         |
| 2022-05-25 | 14:34:00   | -15.15             | 55.875            | -134.588       | 274.4375        | -0.01           | 0             | 0.08       | 21.1            | 0.43         | 0.11          | 0.08            | 21.1          | 0.08       | 0.43            | 0.11         | 25.1          | 0.08            | 0.43          | 0.11       | 25.1              | 10.81             | 0                 | 33.915          | 0                 | 33.915            | 0                 | 33.915          |
| 2022-05-25 | 14:35:00   | -13.45             | 54                | -127.838       | 286.6875        | -0.01           | 0             | 0.09       | 22.8            | 0.43         | 0.19          | 0.09            | 22.8          | 0.09       | 0.43            | 0.19         | 25.34         | 0.09            | 0.43          | 0.19       | 25.34             | 10.61             | 0                 | 34.30875        | 0                 | 34.30875          | 0                 | 34.30875        |
| 2022-05-25 | 14:36:00   | -10.55             | 50.5              | -124.95        | 304.5           | -0.01           | 0             | 0.08       | 21.2            | 0.43         | 0.02          | 0.08            | 21.2          | 0.08       | 0.43            | 0.02         | 25.34         | 0.08            | 0.43          | 0.02       | 25.34             | 10.61             | 0                 | 34.83375        | 0                 | 34.83375          | 0                 | 34.83375        |
| 2022-05-25 | 14:37:00   | -7.25              | 47.875            | -117.098       | 320.25          | -0.01           | 0             | 0.09       | 24.6            | 0.43         | 0.11          | 0.09            | 24.6          | 0.09       | 0.43            | 0.11         | 25.49         | 0.09            | 0.43          | 0.11       | 25.49             | 10.4              | 0                 | 34.965          | 0                 | 34.965            | 0                 | 35.0175         |
| 2022-05-25 | 14:38:00   | -15.5              | 57.375            | -133.8         | 296.875         | -0.01           | 0             | 0.09       | 22.6            | 0.43         | 0.02          | 0.09            | 22.6          | 0.09       | 0.43            | 0.02         | 26.53         | 0.09            | 0.43          | 0.02       | 26.53             | 10.82             | 0                 | 34.965          | 0                 | 34.965            | 0                 | 35.0175         |
| 2022-05-25 | 14:39:00   | -10.25             | 50.375            | -123.263       | 308.125         | -0.01           | 0             | 0.08       | 23.8            | 0.43         | 0.12          | 0.08            | 23.8          | 0.08       | 0.43            | 0.12         | 28.6          | 0.08            | 0.43          | 0.12       | 28.6              | 10.4              | 0                 | 35.0175         | 0                 | 35.0175           | 0                 | 35.0175         |
| 2022-05-25 | 14:40:00   | -18.35             | 65.25             | -143.025       | 289.125         | -0.01           | 0             | 0.08       | 24.2            | 0.43         | 0.12          | 0.08            | 24.2          | 0.08       | 0.43            | 0.12         | 26.53         | 0.08            | 0.43          | 0.12       | 26.53             | 10.4              | 0                 | 35.0175         | 0                 | 35.0175           | 0                 | 35.0175         |
| 2022-05-25 | 14:41:00   | -14.9              | 58.625            | -133.288       | 298.25          | -0.01           | 0             | 0.08       | 23              | 0.43         | 0.15          | 0.08            | 23            | 0.08       | 0.43            | 0.15         | 25.9          | 0.08            | 0.43          | 0.15       | 25.9              | 10.94             | 0                 | 33.99375        | 0                 | 33.99375          | 0                 | 33.99375        |
| 2022-05-25 | 14:42:00</ |                    |                   |                |                 |                 |               |            |                 |              |               |                 |               |            |                 |              |               |                 |               |            |                   |                   |                   |                 |                   |                   |                   |                 |

| SDate      | Time     | Incinerator |         | SDA Inlet |          | BH Inlet |       | BH Inlet |     | Main CO |            | Main HCl    |             | Main CO2 |             | Main H2O |            | THC         |        | Main O2    |            | Opacity     |   | Main SO2   |            | Backup CO  |            | Backup O2  |     | Backup SO2 |     | PAC Flow<br>Lbs/h |         |          |          |          |          |
|------------|----------|-------------|---------|-----------|----------|----------|-------|----------|-----|---------|------------|-------------|-------------|----------|-------------|----------|------------|-------------|--------|------------|------------|-------------|---|------------|------------|------------|------------|------------|-----|------------|-----|-------------------|---------|----------|----------|----------|----------|
|            |          | PT-242A     | PT-249  | PT-615    | PT-615   | PDI-622  | PPM   | PPM      | PPM | %       | AT-205-NEW | AT-219A-NEW | AT-219A-NEW | %        | AT-219B-NEW | AT-213CB | AT-259-NEW | AT-261A-NEW | AT-263 | AT-264-NEW | AT-205-NEW | AT-261A-NEW | % | AT-205-NEW | AT-264-NEW | AT-264-NEW | AT-264-NEW | AT-264-NEW | PPM | PPM        | PPM |                   |         |          |          |          |          |
| 2022-05-25 | 15:35:00 | -10.75      | -49.5   | -124.275  | 310.375  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 34.5975 | 0        | 34.5975  |          |          |
| 2022-05-25 | 15:36:00 | -13.4       | -52.125 | -130.538  | 282.3125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 35.09625 | 0        | 35.09625 |          |
| 2022-05-25 | 15:37:00 | -9.4        | -49.375 | -122.963  | 295.8125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.1775  | 0        | 34.1775  |
| 2022-05-25 | 15:38:00 | -10.15      | -50.375 | -121.613  | 311.875  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.45875 | 0        | 35.45875 |
| 2022-05-25 | 15:39:00 | -3.75       | -40.375 | -109.238  | 327.125  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.51875 | 0        | 34.51875 |
| 2022-05-25 | 15:40:00 | -13.05      | -53     | -132.375  | 301.375  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 33.915   | 0        | 33.915   |
| 2022-05-25 | 15:41:00 | -7.75       | -43.375 | -116.025  | 310.8125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.04625 | 0        | 34.04625 |
| 2022-05-25 | 15:42:00 | -21         | -61.875 | -144.6    | 290.1875 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.2825  | 0        | 34.2825  |
| 2022-05-25 | 15:43:00 | -13.3       | -54.625 | -127.169  | 299.4375 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 33.94125 | 0        | 33.94125 |
| 2022-05-25 | 15:44:00 | -37.95      | -75.625 | -157.988  | 249.875  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.93875 | 0        | 34.93875 |
| 2022-05-25 | 15:45:00 | -14.8       | -54.375 | -129.638  | 282      | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 33.78375 | 0        | 33.78375 |
| 2022-05-25 | 15:46:00 | -25.6       | -73.25  | -152.513  | 269.25   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.67625 | 0        | 34.67625 |
| 2022-05-25 | 15:47:00 | -6.65       | -43.75  | -115.013  | 310.5625 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.30875 | 0        | 34.30875 |
| 2022-05-25 | 15:48:00 | -1.6        | -37.75  | -108.713  | 327.125  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.0175  | 0        | 35.0175  |
| 2022-05-25 | 15:49:00 | -8.8        | -48.625 | -122.85   | 305.75   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.67625 | 0        | 34.67625 |
| 2022-05-25 | 15:50:00 | -6.35       | -43.25  | -114.15   | 320.1875 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.67625 | 0        | 34.67625 |
| 2022-05-25 | 15:51:00 | -13.3       | -54.375 | -131.138  | 298.25   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.0175  | 0        | 35.0175  |
| 2022-05-25 | 15:52:00 | -8.45       | -47.25  | -119.563  | 307.6875 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.36125 | 0        | 34.36125 |
| 2022-05-25 | 15:53:00 | -13.15      | -53.75  | -129.975  | 278.75   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.20375 | 0        | 34.20375 |
| 2022-05-25 | 15:54:00 | -7.45       | -45.875 | -118.988  | 289.8125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 32.08    | 0        | 32.08    |
| 2022-05-25 | 15:55:00 | -8.55       | -46.375 | -121.163  | 307.3125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 32.08    | 0        | 32.08    |
| 2022-05-25 | 15:56:00 | -2.9        | -38     | -108.488  | 324.625  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.07    | 0        | 35.07    |
| 2022-05-25 | 15:57:00 | -16.9       | -56.875 | -136.538  | 299.75   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.67625 | 0        | 34.67625 |
| 2022-05-25 | 15:58:00 | -7.6        | -45.625 | -117.975  | 311.0625 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.1225  | 0        | 35.1225  |
| 2022-05-25 | 15:59:00 | -24.5       | -67.25  | -151.35   | 275.8125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.23    | 0        | 34.23    |
| 2022-05-25 | 16:00:00 | -11.4       | -51.625 | -127.875  | 298.125  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 33.78375 | 0        | 33.78375 |
| 2022-05-25 | 16:01:00 | -25.6       | -70.375 | -154.425  | 251.125  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.36125 | 0        | 34.36125 |
| 2022-05-25 | 16:02:00 | -11.25      | -50.625 | -126.113  | 274.75   | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.04625 | 0        | 34.04625 |
| 2022-05-25 | 16:03:00 | -17.2       | -65.25  | -136.95   | 272.125  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.66625 | 0        | 34.66625 |
| 2022-05-25 | 16:04:00 | -7          | -42.875 | -116.663  | 313.4375 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.3335  | 0        | 34.3335  |
| 2022-05-25 | 16:05:00 | -3.35       | -39.375 | -108.6    | 325.3125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 35.20125 | 0        | 35.20125 |
| 2022-05-25 | 16:06:00 | -10.05      | -49.875 | -124.763  | 303.375  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.51875 | 0        | 34.51875 |
| 2022-05-25 | 16:07:00 | -6.15       | -42.625 | -115.125  | 314.8125 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 33.73125 | 0        | 33.73125 |
| 2022-05-25 | 16:08:00 | -13.8       | -54     | -132.15   | 293.1875 | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.15125 | 0        | 34.15125 |
| 2022-05-25 | 16:09:00 | -11.3       | -49.625 | -124.65   | 305.875  | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.07625 | 0        | 34.07625 |
| 2022-05-25 | 16:10:00 | -14.1       | -54.5   | -131.1    | 273      | -0.01    | -0.01 | 0        | 0   | 0       | 0          | 0           | 0           | 0        | 0           | 0        | 0          | 0           | 0      | 0          | 0          | 0           | 0 | 0          | 0          | 0          | 0          | 0          | 0   | 0          | 0   | 0                 | 0       | 0        | 34.07625 | 0        | 34.07625 |
| 2022-05-25 | 16:11:00 |             |         |           |          |          |       |          |     |         |            |             |             |          |             |          |            |             |        |            |            |             |   |            |            |            |            |            |     |            |     |                   |         |          |          |          |          |



| Date       | Time     | Incinerator | SDA Inlet mmH2O | BH Inlet mmH2O | BHT OP mmH2O | Main CO PPM | Main HCl PPM | Main CO2 % | Main H2O % | THC PPM | Main O2 % | Opacity % | Main SO2 PPM | Backup CO PPM | Backup O2 % | Backup SO2 PPM | PAC Lbs/h |
|------------|----------|-------------|-----------------|----------------|--------------|-------------|--------------|------------|------------|---------|-----------|-----------|--------------|---------------|-------------|----------------|-----------|
|            |          |             |                 |                |              |             |              |            |            |         |           |           |              |               |             |                |           |
| 2022-05-25 | 16:49:00 | -7.05       | -44.875         | -118.913       | 304.75       | -0.01       | 0            | 0          | 0.09       | 28.2    | 0.43      | 0         | 96.36        | 0             | 9.48        | 0              | 34.36125  |
| 2022-05-25 | 16:50:00 | -23.1       | -70.875         | -150.263       | 262.5        | -0.01       | 0            | 0          | 0.08       | 34.1    | 0.43      | 0         | 51.6         | 0             | 9.68        | 0              | 35.28     |
| 2022-05-25 | 16:51:00 | -9.15       | -49             | -126.488       | 293.4375     | -0.01       | 0            | 0          | 0.08       | 23.9    | 0.43      | 0.05      | 55.05        | 0             | 9.95        | 0              | 34.04625  |
| 2022-05-25 | 16:52:00 | -7.5        | -45.75          | -119.813       | 305          | -0.01       | 0            | 0          | 0.08       | 28.7    | 0.43      | 0.05      | 30.69        | 0             | 9.95        | 0              | 34.65     |
| 2022-05-25 | 16:53:00 | -10.55      | -50.75          | -128.55        | 275.625      | -0.01       | 0            | 0          | 0.08       | 23.5    | 0.43      | 0         | 38.7         | 0             | 9.74        | 0              | 33.94125  |
| 2022-05-25 | 16:54:00 | -6.6        | -46.25          | -120.45        | 287.625      | -0.01       | 0            | 0          | 0.08       | 28.4    | 0.43      | 0.06      | 31.76        | 0             | 9.94        | 0              | 33.73125  |
| 2022-05-25 | 16:55:00 | -6.85       | -44             | -117.188       | 305.75       | -0.01       | 0            | 0          | 0.08       | 24.1    | 0.43      | 0         | 37.77        | 0             | 9.73        | 0              | 33.73125  |
| 2022-05-25 | 16:56:00 | -2.55       | -38.125         | -108.825       | 320.1875     | -0.01       | 0            | 0          | 0.08       | 31.4    | 0.43      | 0.06      | 31.64        | 0             | 9.77        | 0              | 33.7875   |
| 2022-05-25 | 16:57:00 | -12.1       | -50.75          | -126.675       | 296.1875     | -0.01       | 0            | 0          | 0.08       | 29.3    | 0.43      | 0         | 29.74        | 0             | 9.57        | 0              | 34.62375  |
| 2022-05-25 | 16:58:00 | -5.9        | -45             | -115.05        | 308.9375     | -0.01       | 0            | 0          | 0.09       | 29.6    | 0.43      | 0         | 49.24        | 0             | 9.57        | 0              | 33.94125  |
| 2022-05-25 | 16:59:00 | -14.05      | -54.625         | -134.663       | 288.125      | -0.01       | 0            | 0          | 0.09       | 29.6    | 0.43      | 0.06      | 49.24        | 0             | 9.57        | 0              | 35.1225   |
| 2022-05-25 | 17:00:00 | -7.45       | -47.375         | -122.513       | 296.4375     | -0.01       | 0            | 0          | 0.08       | 27.1    | 0.43      | 0.12      | 29.76        | 0             | 10.01       | 0              | 34.04625  |
| 2022-05-25 | 17:01:00 | -11.55      | -52.375         | -133.688       | 268.5        | -0.01       | 0            | 0          | 0.09       | 29.7    | 0.43      | 0.12      | 41.92        | 0             | 9.81        | 0              | 34.04625  |
| 2022-05-25 | 17:02:00 | -7.8        | -45.125         | -122.025       | 280.25       | -0.01       | 0            | 0          | 0.08       | 37.5    | 0.43      | 0.1       | 45.66        | 0             | 9.81        | 0              | 33.3375   |
| 2022-05-25 | 17:03:00 | -16.45      | -58.125         | -141.375       | 284.9375     | -0.01       | 0            | 0          | 0.09       | 32.4    | 0.43      | 0.37      | 48.18        | 0             | 9.6         | 0              | 34.93875  |
| 2022-05-25 | 17:04:00 | -3.8        | -39.875         | -111.6         | 313.3125     | -0.01       | 0            | 0          | 0.09       | 31.9    | 0.43      | 0.02      | 38.77        | 0             | 9.83        | 0              | 33.73125  |
| 2022-05-25 | 17:05:00 | -21.45      | -68.125         | -152.55        | 260.6875     | -0.01       | 0            | 0          | 0.08       | 47      | 0.43      | 0.16      | 84.88        | 0             | 9.41        | 0              | 33.81     |
| 2022-05-25 | 17:06:00 | -6.4        | -43.125         | -118.95        | 302.25       | -0.01       | 0            | 0          | 0.08       | 28.5    | 0.43      | 0.04      | 120.24       | 0             | 9.64        | 0              | 34.5975   |
| 2022-05-25 | 17:07:00 | -9.85       | -59.125         | -125.625       | 279.875      | -0.01       | 0            | 0          | 0.09       | 36.1    | 0.43      | 0.01      | 57.65        | 0             | 9.44        | 0              | 34.25625  |
| 2022-05-25 | 17:08:00 | -10.05      | -49.5           | -127.875       | 291.25       | -0.01       | 0            | 0          | 0.08       | 24.5    | 0.43      | 0.06      | 72.62        | 0             | 9.98        | 0              | 34.57125  |
| 2022-05-25 | 17:09:00 | -5.55       | -43.375         | -119.4         | 303.25       | -0.01       | 0            | 0          | 0.08       | 29      | 0.43      | 0.05      | 34.91        | 0             | 9.98        | 0              | 34.86     |
| 2022-05-25 | 17:10:00 | -11.7       | -50.375         | -127.688       | 270.75       | -0.01       | 0            | 0          | 0.08       | 23.6    | 0.43      | 0.05      | 40.15        | 0             | 9.77        | 0              | 34.62375  |
| 2022-05-25 | 17:11:00 | -7.65       | -44.125         | -119.55        | 283.75       | -0.01       | 0            | 0          | 0.09       | 22.7    | 0.43      | 0         | 27.97        | 0             | 10.02       | 0              | 33.705    |
| 2022-05-25 | 17:12:00 | -9.25       | -49.75          | -120.638       | 310          | -0.01       | 0            | 0          | 0.09       | 22.7    | 0.43      | 0         | 27.97        | 0             | 10.02       | 0              | 33.705    |
| 2022-05-25 | 17:13:00 | -5.75       | -40.875         | -112.425       | 320.9375     | -0.01       | 0            | 0          | 0.08       | 26.6    | 0.43      | 0         | 28.29        | 0             | 10.27       | 0              | 34.88625  |
| 2022-05-25 | 17:14:00 | -16.7       | -56.125         | -134.4         | 298.0625     | -0.01       | 0            | 0          | 0.08       | 25      | 0.43      | 0         | 27.22        | 0             | 10.07       | 0              | 34.67625  |
| 2022-05-25 | 17:15:00 | -10.4       | -49             | -117.638       | 306.125      | -0.01       | 0            | 0          | 0.08       | 23.2    | 0.43      | 0.02      | 25.66        | 0             | 10.68       | 0              | 34.9125   |
| 2022-05-25 | 17:16:00 | -20.25      | -60.25          | -139.538       | 287.5625     | -0.01       | 0            | 0          | 0.08       | 23.5    | 0.43      | 0.1       | 27.41        | 0             | 10.27       | 0              | 33.8625   |
| 2022-05-25 | 17:17:00 | -15.25      | -53.5           | -127.575       | 297.1875     | -0.01       | 0            | 0          | 0.09       | 21.9    | 0.43      | 0.06      | 26.83        | 0             | 10.79       | 0              | 34.335    |
| 2022-05-25 | 17:18:00 | -22.8       | -63.125         | -145.2         | 270.0625     | -0.01       | 0            | 0          | 0.08       | 22.8    | 0.43      | 0.09      | 29.79        | 0             | 10.58       | 0              | 33.88875  |
| 2022-05-25 | 17:19:00 | -16.6       | -55.875         | -128.325       | 279.9375     | -0.01       | 0            | 0          | 0.09       | 22.6    | 0.43      | 0.1       | 28.48        | 0             | 10.79       | 0              | 34.125    |
| 2022-05-25 | 17:20:00 | -31.1       | -76.25          | -158.55        | 261.125      | -0.01       | 0            | 0          | 0.08       | 25      | 0.43      | 0.34      | 29.37        | 0             | 10.58       | 0              | 34.67625  |
| 2022-05-25 | 17:21:00 | -9.75       | -46.5           | -118.35        | 308.75       | -0.01       | 0            | 0          | 0.09       | 23.8    | 0.43      | 0         | 30.18        | 0             | 10.57       | 0              | 34.965    |
| 2022-05-25 | 17:22:00 | -30.8       | -76.75          | -157.888       | 263.3125     | -0.01       | 0            | 0          | 0.09       | 27      | 0.43      | 0         | 36.4         | 0             | 10.15       | 0              | 34.755    |
| 2022-05-25 | 17:23:00 | -14.1       | -53.875         | -128.475       | 298.125      | -0.01       | 0            | 0          | 0.09       | 22.4    | 0.43      | 0         | 30.6         | 0             | 10.17       | 0              | 33.8625   |
| 2022-05-25 | 17:24:00 | -12.55      | -49.875         | -120.225       | 312.75       | -0.01       | 0            | 0          | 0.08       | 25      | 0.43      | 0         | 27.77        | 0             | 10.18       | 0              | 34.2825   |
| 2022-05-25 | 17:25:00 | -17.7       | -59.5           | -135.525       | 284.9375     | -0.01       | 0            | 0          | 0.08       | 21.2    | 0.43      | 0.02      | 26.86        | 0             | 10.49       | 0              | 34.3875   |
| 2022-05-25 | 17:26:00 | -13.85      | -52.25          | -127.013       | 295.9375     | -0.01       | 0            | 0          | 0.09       | 23.5    | 0.43      | 0.06      | 28.09        | 0             | 10.51       | 0              | 34.52375  |
| 2022-05-25 | 17:27:00 | -16.15      | -53.25          | -134.363       | 265.5625     | -0.01       | 0            | 0          | 0.09       | 21.4    | 0.43      | 0         | 28.52        | 0             | 10.31       | 0              | 34.25625  |
| 2022-05-25 | 17:28:00 | -13.65      | -50             | -126.45        | 279.25       | -0.01       | 0            | 0          | 0.08       | 23.6    | 0.43      | 0.02      | 28.77        | 0             | 10.52       | 0              | 35.20125  |
| 2022-05-25 | 17:29:00 | -7.75       | -44.875         | -116.175       | 315.125      | -0.01       | 0            | 0          | 0.09       | 25.9    | 0.43      | 0         | 29.34        | 0             | 10.11       | 0              | 33.5475   |
| 2022-05-25 | 17:30:00 | -7.75       | -44.875         | -116.175       | 315.125      | -0.01       | 0            | 0          | 0.09       | 25.9    | 0.43      | 0         | 27.76        | 0             | 10.3        | 0              | 33.88875  |
| 2022-05-25 | 17:31:00 | -17.9       | -57.25          | -135.488       | 299.4375     | -0.01       | 0            | 0          | 0.08       | 25.4    | 0.43      | 0         | 28.03        | 0             | 9.9         | 0              | 34.1775   |
| 2022-05-25 | 17:32:00 | -9.9        | -47             | -121.613       | 303.125      | -0.01       | 0            | 0          | 0.08       | 25.4    | 0.43      | 0         | 28.03        | 0             | 9.9         | 0              | 34.1775   |
| 2022-05-25 | 17:33:00 | -20.1       | -60.625         | -143.85        | 288.125      | -0.01       | 0            | 0          | 0.09       | 25.7    | 0.43      | 0.09      | 29.86        | 0             | 9.93        | 0              | 34.125    |
| 2022-05-25 | 17:34:00 | -13.1       | -50.5           | -130.5         | 297.5        | -0.01       | 0            | 0          | 0.08       | 23.1    | 0.43      | 0         | 25.55        | 0             | 10.39       | 0              | 33.9675   |
| 2022-05-25 | 17:35:00 | -26.8       | -65.25          | -152.25        | 254.3125     | -0.01       | 0            | 0          | 0.08       | 24.4    | 0.43      | 0.09      | 26.3         | 0             | 10.18       | 0              | 35.2275   |
| 2022-05-25 | 17:36:00 | -14.1       | -52.25          | -130.125       | 278.8125     | -0.01       | 0            | 0          | 0.09       | 22.8    | 0.43      | 0.02      | 25.61        | 0             | 10.18       | 0              | 34.93875  |
| 2022-05-25 | 17:37:00 | -27.6       | -70.875         | -157.725       | 264.4375     | -0.01       | 0            | 0          | 0.08       | 25      | 0.43      | 0.32      | 25.89        | 0             | 10.19       | 0              | 35.04375  |
| 2022-05-25 | 17:38:00 | -8.5        | -43.125         | -119.663       | 310.375      | -0.01       | 0            | 0          | 0.09       | 23.4    | 0.43      | 0         | 25.57        | 0             | 10.19       | 0              | 34.65     |
| 2022-05-25 | 17:39:00 | -16.15      | -67.25          | -133.088       | 282.0625     | -0.01       | 0            | 0          | 0.09       | 28.1    | 0.43      | 0         | 29.01        | 0             | 9.97        | 0              | 34.04625  |
| 2022-05-25 | 17:40:00 | -13.85      | -52.25          | -128.55        | 300.5625     | -0.01       | 0            | 0          | 0.08       | 21.6    | 0.43      | 0         | 31.55        | 0             | 10.04       | 0              | 34.93875  |
| 2022-05-25 | 17:41:00 | -9.4        | -46.125         | -120.563       | 314.8125     | -0.01       | 0            | 0          | 0.08       | 25.4    | 0.43      | 0         | 25.8         | 0             | 10.25       | 0              | 33.78375  |
| 2022-05-25 | 17:42:00 | -17.45      | -56             | -135.45        | 288.625      | -0.01       | 0            | 0          | 0.08       | 21.3    | 0.43      | 0.02      | 26.57        | 0             | 10.38       | 0              | 34.62375  |
| 2022-05-25 | 17:43:00 | -11.6       | -46.375         | -128.55        | 298.375      | -0.01       | 0            | 0          | 0.09       | 23.6    | 0.43      | 0.06      | 25.77        | 0             | 10.39       | 0              | 34.4925   |
| 2022-05-25 | 17:44:00 | -15.95      | -56             | -137.4         | 268.5625     | -0.01       | 0            | 0          | 0.08       | 21.8    | 0.43      | 0.02      | 26.4         | 0             | 10.19       | 0              | 34.99125  |
| 2022-05-25 | 17:45:00 | -11         | -45.75          | -127.913       | 287.5        | -0.01       | 0            | 0          | 0.08       | 24.2    | 0.43      | 0.06      | 25.33        | 0             | 10.4        | 0              | 34.93875  |
| 2022-05-25 | 17:46:00 | -11.8       | -48.25          | -125.4         | 301.6875     | -0.01       | 0            | 0          | 0.09       | 23.6    | 0.43      | 0         | 26.27        | 0             | 10.19       | 0              | 34.51875  |
| 2022-05-25 | 17:47:00 | -3.7        | -37.875         | -112.688       | 314.4375     | -0.01       | 0            | 0          | 0.09       | 26.2    | 0.43      | 0         | 25.62        | 0             | 10.39       | 0              | 33.88875  |
| 2022-05-25 | 17:48:00 | -16.6       | -56             | -136.688       | 294.5        | -0.01       | 0            | 0          | 0.09       | 32.6    | 0.43      | 0.02      | 57.74        | 0             | 9.77        | 0              | 33.7875   |
| 2022-05-25 | 17:49:00 | -9.05       | -43.25          | -121.313       | 304.125      | -0.01       | 0            | 0          | 0.09       | 25      | 0.43      | 0         | 28.96        | 0             | 10.02       | 0              | 34.8075   |

| Pressures |       |           |          |          |          |             |           |           |          |            |             |             | Analyzers |            |             |         |            | Backup Analyzers |             |            |          |          | Flows |  |  |
|-----------|-------|-----------|----------|----------|----------|-------------|-----------|-----------|----------|------------|-------------|-------------|-----------|------------|-------------|---------|------------|------------------|-------------|------------|----------|----------|-------|--|--|
| Test      | Units | Max       | Min      | Average  | Variance | Incinerator | SDA Inlet | SD Outlet | Baghouse | Main CO    | Main HCl    | Main CO2    | Main H2O  | THC        | Main O2     | Opacity | Main SO2   | Backup CO        | Backup O2   | Backup SO2 | PAC Flow |          |       |  |  |
| PT-242A   | mmH2O | mmH2O     | mmH2O    | mmH2O    | mmH2O    | PT-249      | PDT-615   | PDT-622   | PDT-622  | AT-205-NEW | AT-213A-NEW | AT-213B-NEW | AT-213C   | AT-259-NEW | AT-261A-NEW | AT-263  | AT-264-NEW | AT-205-NEW       | AT-261A-NEW | AT-264-NEW | PPM      | Lbs/h    |       |  |  |
|           |       | -4.6      | -37.9    | -108.8   | 320.9    |             |           |           |          | 0.0        | 0.0         | 0.0         | 0.1       | 47.0       | 0.4         | 0.4     | 0.0        | 120.2            | 10.8        | 10.8       | 0.0      | 35.3     |       |  |  |
|           |       | -31.1     | -76.8    | -158.6   | 254.3    |             |           |           |          | 0.0        | 0.0         | 0.0         | 0.1       | 21.2       | 0.4         | 0.0     | 0.0        | 37.0             | 10.1        | 10.1       | 0.0      | 34.4     |       |  |  |
|           |       | -13.1     | -52.1    | -128.9   | 291.7    |             |           |           |          | 0.0        | 0.0         | 0.0         | 0.1       | 26.2       | 0.4         | 0.0     | 0.0        | 34.9             | 10.9        | 10.9       | 0.0      | 33.88875 |       |  |  |
|           |       | 40.983638 | 78.17193 | 139.0172 | 282.4454 |             |           |           |          | 0          | 0           | 0           |           |            |             |         |            |                  |             |            |          |          |       |  |  |