



**2024 Q3  
INCINERATION  
REPORT**

October 31, 2024

District Manager  
Ministry of the Environment, Conservation and Parks  
Halton-Peel District Office  
300-4145 North Service Road  
Burlington, ON  
L7L 6A3

Dear District Manager,

**Re: Stericycle, ULC.  
Certificate of Approval for a Waste Disposal Site No. A680324**

As required by Condition 52 of the above-mentioned Certificate of Approval, please find attached the incinerator quarterly report for the third quarter of 2024.

During July 2024 there were 2 occurrences of the 4-hour CO alarm & 0 occurrences of the 12-hour CO alarm. In August 2024 there were 7 occurrences of the 4-hour CO alarm and 1 occurrence of the 12-hour CO alarm. In September 2024 there were 7 occurrences of the 4-hour CO alarm and 1 occurrences of the 12-hour CO alarm. Stericycle will continue to work with the incinerator operators to further reduce the number of CO alarms.

There were 0 occurrences of the 24-hour NOx alarm triggered in Q3 of 2024.

Throughout Q4 of 2023 the facility continued to have issues with the rotary atomizers. Newly built units are scheduled to arrive at the facility in Q2 of 2024. The facility will continue to operate on one rotary atomizer to ensure back-up units are in place until the new units arrive.

Details on the above noted alarms are available in the body of the attached report.

### THIRD QUARTER 2024 INCINERATOR QUARTERLY REPORT - SUPPLEMENTAL INFORMATION

- The Emergency Bypass stack was not used during Q3 2024.
- Throughout the quarter, minor issues with either the waste feed or the proper operation of certain pieces of equipment caused alarm conditions. In all cases, the problems were fixed, and normal operations resumed. Corrective actions included adjustments to the waste feed mix and rate and corrective maintenance on affected systems.
- Throughout the third quarter of 2024, the incinerator was run by trained Stericycle operators Ricky Pope, Said M. Said, Lamek Abraha, Nasif Ferdaus Ahad, John Diala, & Anuraj Singh.
- There were no complaints received regarding the operation of the incinerator during the second quarter of 2024.
- Stericycle ULC. operated the incinerator on the following days during the third quarter:

| Jul-24    |       |           |       | Aug-24    |       |           |       |
|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| Start-up  |       | Shutdown  |       | Start-up  |       | Shutdown  |       |
| Date      | Time  | Date      | Time  | Date      | Time  | Date      | Time  |
|           |       | 7/1/2024  | 19:26 | 8/2/2024  | 20:54 | 8/5/2024  | 09:14 |
| 7/1/2024  | 23:36 | 7/4/2024  | 03:08 | 8/5/2024  | 11:47 | 8/6/2024  | 19:20 |
| 7/4/2024  | 16:06 | 7/6/2024  | 19:59 | 8/7/2024  | 21:58 | 8/7/2024  | 23:43 |
| 7/7/2024  | 00:27 | 7/7/2024  | 19:04 | 8/8/2024  | 09:10 | 8/12/2024 | 07:10 |
| 7/7/2024  | 23:29 | 7/8/2024  | 22:01 | 8/13/2024 | 00:14 | 8/16/2024 | 16:44 |
| 7/9/2024  | 04:01 | 7/10/2024 | 07:45 | 8/16/2024 | 17:55 | 8/17/2024 | 17:31 |
| 7/11/2024 | 16:44 | 7/12/2024 | 20:59 | 8/17/2024 | 22:01 | 8/18/2024 | 19:00 |
| 7/13/2024 | 02:47 | 7/14/2024 | 03:32 | 8/18/2024 | 19:55 | 8/19/2024 | 01:01 |
| 7/15/2024 | 19:20 | 7/17/2024 | 09:35 | 8/21/2024 | 12:10 | 8/23/2024 | 15:57 |
| 7/18/2024 | 11:16 | 7/18/2024 | 19:58 | 8/23/2024 | 23:49 | 8/26/2024 | 03:48 |
| 7/18/2024 | 23:58 | 7/19/2024 | 04:26 | 8/26/2024 | 19:26 | 8/28/2024 | 11:04 |
| 7/19/2024 | 13:01 | 7/20/2024 | 20:18 | 8/28/2024 | 14:58 | 8/29/2024 | 01:44 |
| 7/21/2024 | 00:50 | 7/22/2024 | 01:58 | 8/29/2024 | 19:07 | 8/30/2024 | 04:42 |
| 7/22/2024 | 20:12 | 7/23/2024 | 21:24 | 8/30/2024 | 08:53 | 8/31/2024 | 05:38 |
| 7/25/2024 | 02:04 | 7/25/2024 | 23:50 | 8/31/2024 | 08:32 |           |       |
| 7/26/2024 | 04:31 | 7/26/2024 | 23:09 |           |       |           |       |

| Sep-24    |       |           |       |
|-----------|-------|-----------|-------|
| Start-up  |       | Shutdown  |       |
| Date      | Time  | Date      | Time  |
|           |       | 9/1/2024  | 00:10 |
| 9/12/2024 | 13:54 | 9/13/2024 | 04:39 |
| 9/13/2024 | 11:37 | 9/17/2024 | 18:33 |
| 9/18/2024 | 00:01 | 9/18/2024 | 07:23 |
| 9/18/2024 | 13:49 | 9/20/2024 | 14:30 |
| 9/20/2024 | 19:29 | 9/23/2024 | 03:51 |
| 9/23/2024 | 10:25 | 9/25/2024 | 08:30 |
| 9/25/2024 | 13:18 | 9/26/2024 | 11:58 |
| 9/26/2024 | 15:59 | 9/27/2024 | 14:46 |
| 9/27/2024 | 18:56 | 9/28/2024 | 17:42 |
| 9/28/2024 | 22:16 | 9/29/2024 | 11:46 |

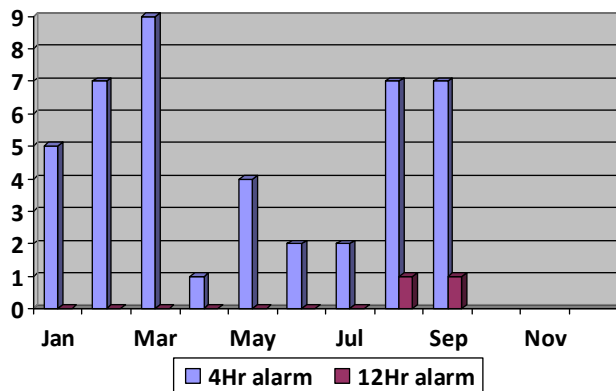
During Q3 of 2024 routine maintenance was performed on the incinerator during the scheduled shutdowns along with following additional repairs:

1. Replaced the refractory in the Primary Chamber
2. Replaced the Ash Hoe
3. Installed a new Quench T section
4. Replaced the city water pipeline
5. Calibrated the Draft Sensor
6. Replaced temperature probes in the Primary and Secondary Chambers
7. Installed a new Fire Door
8. Demister Nozzles changed
9. New Atomizer gear box
10. New steam valve



## CO Alarm Chart Q3 2024

| Month     | 4 Hour CO average alarms | 12 Hour CO average alarms |
|-----------|--------------------------|---------------------------|
| January   | 5                        | 0                         |
| February  | 7                        | 0                         |
| March     | 9                        | 0                         |
| April     | 1                        | 0                         |
| May       | 4                        | 0                         |
| June      | 2                        | 0                         |
| July      | 2                        | 0                         |
| August    | 7                        | 1                         |
| September | 7                        | 1                         |
| October   |                          |                           |
| November  |                          |                           |
| December  |                          |                           |



### **2023 CO alarms vs. 2024 CO alarms**

|                  | <b>2023</b>        |                     | <b>2024</b>        |                     |
|------------------|--------------------|---------------------|--------------------|---------------------|
| <b>Month</b>     | <b>4 Hr. Alarm</b> | <b>12 Hr. Alarm</b> | <b>4 Hr. Alarm</b> | <b>12 Hr. Alarm</b> |
| <b>January</b>   | 5                  | 0                   | 5                  | 0                   |
| <b>February</b>  | 11                 | 0                   | 7                  | 0                   |
| <b>March</b>     | 20                 | 4                   | 9                  | 0                   |
| <b>April</b>     | 20                 | 1                   | 1                  | 0                   |
| <b>May</b>       | 16                 | 1                   | 4                  | 0                   |
| <b>June</b>      | 15                 | 0                   | 2                  | 0                   |
| <b>July</b>      | 6                  | 0                   | 2                  | 0                   |
| <b>August</b>    | 0                  | 0                   | 7                  | 1                   |
| <b>September</b> | 9                  | 3                   | 7                  | 1                   |
| <b>October</b>   | 2                  | 0                   |                    |                     |
| <b>November</b>  | 7                  | 1                   |                    |                     |
| <b>December</b>  | 7                  | 0                   |                    |                     |

Stericycle warrants that it has exercised best efforts to adhere to all the applicable Terms & Conditions of its Waste Disposal Site Certificate of Approval including all inspection and reporting requirements through Q3 of 2024.

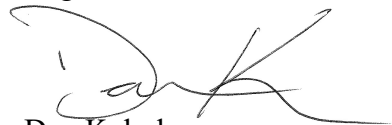
Stericycle is very committed to the full compliance with all conditions of its Provisional Certificate of Approval, throughout the year, whenever a situation of possible non-compliance was identified; immediate actions were taken to ensure full compliance. Stericycle has mechanisms in place to always ensure full compliance. Employees are aware of their responsibilities and are trained appropriately.

Stericycle believes that the current monitoring program is sufficient and enables both Stericycle and the MECP to have a good understanding of the Site operations and to assess its compliance with the Certificate of Approval and all the relevant regulations.

However, Stericycle is very committed to looking for ways to improve its operations through better procedures, training, inspections, and monitoring programs and will continue to do so.

I trust that this is the information required and that it meets with your approval. Should you have any questions or require additional information, please do not hesitate to contact me accordingly.

Regards,



Dan Kokol  
Operational EHS Manager  
Phone: 905-595-8532  
Email: [dkokol@stericycle.com](mailto:dkokol@stericycle.com)



## July 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin  | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp°C | IDFanTemp°C | QuenchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                              |
|-----------|---------|--------|--------|--------|------------|-----------|------|-----------|------------|------------|-------------|----------|--------|--------|-------|-------|--------|-----------------------------------------------------|
| 7/1/2024  | Average | 11.99  | 1.82   | 49.44  | 809.22     | 1058.62   | 6.64 | 37.14     | 51.90      | 14.76      | 41.71       | 8.16     | 7.50   | 6.79   | 39.30 | 0.00  | 0.82   | Preheat/Normal(O<br>N)/Shutdown/Off/P<br>reheat     |
|           | Min     | 8.68   | 0.00   | -2.27  | 559.83     | 708.03    | 6.11 | 28.12     | 48.59      | 10.84      | 34.63       | 7.57     | 7.24   | 6.74   | 35.76 | 0.00  | 0.00   |                                                     |
|           | Max     | 20.37  | 579.19 | 132.12 | 899.58     | 1083.21   | 7.08 | 41.76     | 54.52      | 22.06      | 45.66       | 8.95     | 8.15   | 6.80   | 39.65 | 0.00  | 1.00   |                                                     |
| 7/2/2024  | Average | 12.11  | 1.35   | 37.62  | 756.77     | 1062.44   | 6.83 | 36.26     | 51.94      | 15.68      | 42.48       | 8.09     | 7.48   | 6.78   | 39.50 | 0.00  | 0.91   | Preheat/Normal(O<br>N)/Shutdown/Off/<br>Preheat     |
|           | Min     | 10.04  | 0.23   | 8.46   | 676.11     | 1015.68   | 6.51 | 28.18     | 50.73      | 13.11      | 37.72       | 7.59     | 7.14   | 6.73   | 36.91 | 0.00  | 0.00   |                                                     |
|           | Max     | 14.11  | 13.39  | 162.16 | 830.25     | 1113.91   | 6.99 | 39.15     | 53.56      | 22.60      | 43.95       | 8.75     | 8.50   | 6.80   | 39.92 | 0.00  | 1.00   |                                                     |
| 7/3/2024  | Average | 12.31  | 1.37   | 48.89  | 623.71     | 1056.01   | 7.62 | 41.67     | 55.85      | 14.17      | 46.52       | 8.00     | 7.33   | 6.72   | 39.40 | 0.00  | 1.00   | Normal(ON)                                          |
|           | Min     | 10.87  | 0.54   | -0.11  | 573.46     | 1011.82   | 6.99 | 35.10     | 51.54      | 9.56       | 41.41       | 7.22     | 7.15   | 6.70   | 39.10 | 0.00  | 1.00   |                                                     |
|           | Max     | 13.57  | 10.47  | 211.33 | 685.80     | 1080.52   | 8.14 | 50.93     | 62.22      | 19.18      | 51.67       | 8.40     | 7.52   | 6.80   | 39.72 | 0.00  | 1.00   |                                                     |
| 7/4/2024  | Average | 14.77  | 1.69   | 27.14  | 541.15     | 792.96    | 7.95 | 51.59     | 48.84      | -2.75      | 40.45       | 8.30     | 7.39   | 6.76   | 24.63 | 0.00  | 0.52   | Normal(ON)/Shutd<br>own/Off/Preheat/<br>Normal(ON)  |
|           | Min     | 7.40   | 0.00   | 0.00   | 317.41     | 248.73    | 7.35 | 29.51     | 36.11      | -39.14     | 29.53       | 7.45     | 7.18   | 6.70   | 0.10  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.41  | 602.96 | 143.07 | 695.47     | 1075.70   | 8.88 | 76.45     | 57.59      | 23.38      | 49.99       | 9.01     | 7.80   | 6.80   | 40.17 | 0.00  | 1.00   |                                                     |
| 7/5/2024  | Average | 11.92  | 2.26   | 50.81  | 746.42     | 1058.46   | 7.56 | 43.46     | 57.36      | 13.90      | 48.45       | 8.06     | 7.54   | 6.72   | 39.56 | 0.00  | 1.00   | Normal(ON)                                          |
|           | Min     | 10.01  | 0.49   | 0.21   | 621.62     | 1019.64   | 7.42 | 39.42     | 56.00      | 11.46      | 45.85       | 7.42     | 7.34   | 6.70   | 39.10 | 0.00  | 1.00   |                                                     |
|           | Max     | 13.60  | 350.62 | 226.68 | 971.93     | 1095.68   | 7.71 | 46.09     | 58.13      | 17.70      | 50.32       | 8.69     | 8.13   | 6.80   | 39.84 | 0.00  | 1.00   |                                                     |
| 7/6/2024  | Average | 12.12  | 2.97   | 41.78  | 905.21     | 1060.01   | 7.59 | 44.70     | 57.37      | 12.67      | 47.27       | 7.72     | 7.57   | 6.70   | 39.43 | 0.00  | 1.00   | Normal(ON)/Shutd<br>own/Off                         |
|           | Min     | 9.97   | 0.61   | 5.66   | 868.08     | 1017.49   | 7.40 | 40.59     | 53.88      | 10.60      | 44.54       | 7.30     | 7.34   | 6.70   | 39.09 | 0.00  | 1.00   |                                                     |
|           | Max     | 14.09  | 553.27 | 118.34 | 956.09     | 1165.18   | 7.72 | 48.79     | 59.61      | 16.56      | 49.34       | 9.36     | 8.63   | 6.70   | 40.10 | 0.00  | 1.00   |                                                     |
| 7/7/2024  | Average | 12.53  | 2.02   | 27.34  | 880.95     | 1047.54   | 7.40 | 41.67     | 56.08      | 14.42      | 45.37       | 8.87     | 8.37   | 6.70   | 38.53 | 0.00  | 1.44   | Off/Preheat/Norm<br>al(ON)/Shutdown/<br>Off/Preheat |
|           | Min     | 9.47   | 0.00   | -2.48  | 748.27     | 652.23    | 7.10 | 35.99     | 51.44      | 9.90       | 40.57       | 8.16     | 7.56   | 6.70   | 33.34 | 0.00  | 1.00   |                                                     |
|           | Max     | 20.37  | 34.73  | 73.02  | 973.52     | 1084.43   | 7.68 | 45.21     | 59.00      | 19.56      | 49.79       | 9.67     | 9.23   | 6.70   | 40.42 | 0.00  | 2.00   |                                                     |
| 7/8/2024  | Average | 12.05  | 3.03   | 36.13  | 865.32     | 1061.85   | 7.57 | 43.31     | 56.55      | 13.24      | 46.70       | 8.20     | 8.00   | 6.70   | 39.11 | 0.00  | 1.06   | Preheat/Normal(O<br>N)/Shutdown                     |
|           | Min     | 10.12  | 0.00   | -1.25  | 705.81     | 1008.48   | 7.16 | 37.31     | 49.89      | 7.97       | 42.41       | 6.94     | 7.18   | 6.70   | 33.75 | 0.00  | 1.00   |                                                     |
|           | Max     | 19.35  | 374.60 | 458.79 | 934.40     | 1101.67   | 7.80 | 50.19     | 60.59      | 19.01      | 52.22       | 9.56     | 9.24   | 6.70   | 40.99 | 0.00  | 2.00   |                                                     |
| 7/9/2024  | Average | 12.77  | 2.32   | 41.49  | 814.80     | 1015.46   | 7.81 | 43.64     | 57.73      | 14.09      | 46.37       | 8.36     | 8.05   | 6.70   | 36.66 | 0.00  | 1.07   | Shutdown/Off/Pre<br>heat/Normal(ON)                 |
|           | Min     | 9.32   | 0.00   | -1.79  | 668.22     | 416.30    | 7.34 | 37.13     | 54.90      | 5.45       | 38.07       | 7.32     | 7.47   | 6.67   | 14.04 | 0.00  | 0.00   |                                                     |
|           | Max     | 20.37  | 30.46  | 157.54 | 885.19     | 1087.13   | 8.09 | 50.98     | 60.19      | 22.18      | 49.67       | 10.12    | 9.09   | 6.70   | 40.52 | 0.00  | 2.00   |                                                     |
| 7/10/2024 | Average | 16.29  | 1.07   | 29.34  | 603.84     | 690.14    | 7.80 | 44.03     | 40.58      | -3.46      | 33.86       | 9.25     | 7.59   | 6.70   | 22.16 | 0.00  | 0.51   | Normal(ON)/Shutd<br>own/Off                         |
|           | Min     | 10.81  | 0.00   | 0.00   | 268.68     | 174.36    | 7.35 | 26.24     | 26.96      | -34.24     | 21.44       | 7.25     | 7.31   | 6.70   | 0.06  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.41  | 149.92 | 127.82 | 816.59     | 1090.26   | 8.30 | 62.58     | 54.97      | 14.87      | 45.02       | 12.92    | 7.74   | 6.70   | 39.87 | 0.00  | 1.00   |                                                     |
| 7/11/2024 | Average | 17.79  | 4.44   | 9.26   | 224.12     | 334.88    | 7.78 | 27.80     | 31.32      | 3.52       | 26.15       | 11.80    | 7.56   | 6.70   | 8.83  | 0.00  | 0.07   | Off/Preheat                                         |
|           | Min     | 7.45   | 0.00   | 0.00   | 107.55     | 69.04     | 7.35 | 25.00     | 25.56      | 0.56       | 20.77       | 8.29     | 7.00   | 6.70   | 0.00  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.42  | 684.91 | 80.77  | 538.67     | 1070.59   | 8.16 | 36.57     | 57.68      | 23.29      | 40.67       | 12.81    | 7.89   | 6.70   | 40.05 | 0.00  | 1.00   |                                                     |
| 7/12/2024 | Average | 11.98  | 1.74   | 51.29  | 604.81     | 1060.48   | 7.49 | 41.09     | 56.25      | 15.16      | 45.02       | 7.28     | 7.50   | 6.70   | 39.62 | 0.00  | 0.97   | Preheat/Normal(O<br>N)/Shutdown                     |
|           | Min     | 9.62   | 0.90   | 17.03  | 539.11     | 990.61    | 7.11 | 36.49     | 52.57      | 11.48      | 40.72       | 7.07     | 7.36   | 6.70   | 39.32 | 0.00  | 0.00   |                                                     |
|           | Max     | 13.29  | 17.03  | 165.65 | 645.21     | 1096.37   | 7.79 | 44.45     | 59.00      | 17.01      | 46.98       | 8.28     | 7.59   | 6.70   | 40.08 | 0.00  | 1.00   |                                                     |
| 7/13/2024 | Average | 12.81  | 2.41   | 37.22  | 742.70     | 1026.63   | 7.47 | 43.56     | 55.11      | 11.55      | 44.24       | 7.24     | 7.46   | 6.69   | 36.62 | 0.00  | 0.91   | Shutdown/Off/Pre<br>heat/Normal(ON)                 |
|           | Min     | 9.14   | 0.00   | -1.98  | 626.59     | 511.62    | 7.21 | 37.85     | 44.13      | -9.10      | 31.08       | 7.06     | 7.34   | 6.60   | 16.03 | 0.00  | 0.00   |                                                     |
|           | Max     | 20.37  | 166.01 | 149.44 | 802.34     | 1082.81   | 7.69 | 53.79     | 57.82      | 17.84      | 48.63       | 7.73     | 7.68   | 6.70   | 39.75 | 0.00  | 1.00   |                                                     |
| 7/14/2024 | Average | 17.72  | 0.57   | 16.56  | 500.86     | 552.03    | 8.16 | 57.01     | 43.66      | -13.35     | 35.50       | 7.66     | 7.34   | 6.70   | 15.03 | 0.00  | 0.39   | Normal(ON)/Shutd<br>own/Off                         |
|           | Min     | 10.76  | 0.00   | 0.00   | 214.16     | 162.78    | 7.32 | 33.32     | 33.18      | -38.88     | 26.52       | 7.13     | 7.25   | 6.69   | 0.10  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.41  | 4.77   | 131.44 | 754.06     | 1095.29   | 8.90 | 73.90     | 57.54      | 15.97      | 46.13       | 8.09     | 7.53   | 6.70   | 39.27 | 0.00  | 1.00   |                                                     |
| 7/15/2024 | Average | 19.29  | 1.34   | 0.45   | 165.16     | 236.77    | 8.47 | 30.20     | 31.30      | 1.11       | 27.73       | 8.20     | 7.32   | 6.62   | 5.07  | 0.00  | 0.00   | Off/Preheat                                         |
|           | Min     | 7.31   | 0.00   | -16.67 | 91.12      | 71.84     | 7.25 | 26.20     | 28.81      | -0.11      | 25.76       | 7.51     | 7.22   | 6.59   | 0.01  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.42  | 23.12  | 52.35  | 481.04     | 1053.10   | 8.88 | 33.29     | 33.18      | 2.79       | 30.50       | 8.40     | 7.49   | 6.70   | 38.77 | 0.00  | 0.00   |                                                     |
| 7/16/2024 | Average | 13.02  | 8.48   | 37.21  | 579.52     | 933.33    | 7.78 | 38.63     | 50.70      | 12.07      | 41.44       | 7.41     | 7.45   | 6.68   | 33.53 | 0.00  | 0.71   | Preheat/Normal(O<br>N)                              |
|           | Min     | 7.29   | 0.00   | -6.66  | 288.06     | 243.60    | 7.34 | 26.43     | 28.63      | 2.19       | 25.00       | 7.09     | 7.24   | 6.60   | 0.10  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.37  | 511.87 | 204.38 | 688.08     | 1082.79   | 8.08 | 47.33     | 59.00      | 21.56      | 48.95       | 8.10     | 7.64   | 6.70   | 40.71 | 0.00  | 1.00   |                                                     |
| 7/17/2024 | Average | 15.78  | 1.22   | 27.16  | 576.96     | 762.58    | 7.63 | 45.63     | 47.08      | 1.45       | 38.36       | 7.83     | 7.71   | 6.61   | 25.67 | 0.00  | 0.59   | Normal(ON)/Shutd<br>own/Off                         |
|           | Min     | 10.73  | 0.00   | 0.00   | 314.44     | 217.08    | 7.10 | 30.78     | 31.21      | -29.82     | 24.35       | 7.09     | 7.33   | 6.59   | 0.10  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.41  | 18.07  | 118.27 | 733.33     | 1096.82   | 8.40 | 65.23     | 59.35      | 17.70      | 47.42       | 8.95     | 8.10   | 6.65   | 40.38 | 0.00  | 1.00   |                                                     |
| 7/18/2024 | Average | 18.27  | 10.16  | 12.13  | 253.26     | 306.61    | 7.76 | 26.55     | 30.24      | 3.71       | 24.66       | 8.79     | 7.80   | 6.59   | 8.68  | 0.00  | 0.00   | Off/Preheat                                         |
|           | Min     | 8.61   | 0.00   | 0.00   | 127.20     | 69.97     | 6.14 | 21.82     | 26.47      | 0.44       | 20.56       | 7.67     | 6.88   | 6.56   | 0.00  | 0.00  | 0.00   |                                                     |
|           | Max     | 20.42  | 601.07 | 118.27 | 733.33     | 1096.82   | 8.40 | 65.23     | 59.35      | 27.71      | 47.42       | 9.10     | 8.10   | 6.65   | 40.38 | 0.00  | 1.00   |                                                     |



## July 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin  | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp°C | IDFanTemp°C | QunchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                                      |
|-----------|---------|--------|--------|--------|------------|-----------|------|-----------|------------|------------|-------------|---------|--------|--------|-------|-------|--------|-------------------------------------------------------------|
| 7/19/2024 | Average | 13.61  | 9.05   | 41.54  | 564.78     | 911.61    | 6.70 | 35.98     | 52.92      | 16.94      | 40.37       | 7.57    | 7.44   | 6.64   | 32.10 | 0.00  | 0.71   | Preheat/Shutdown<br>/Off/Preheat/Nor<br>mal(ON)             |
|           | Min     | 6.52   | 0.00   | 0.00   | 358.07     | 284.29    | 6.14 | 24.12     | 32.10      | -13.45     | 25.59       | 6.06    | 5.54   | 6.60   | 0.04  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.37  | 683.49 | 140.94 | 673.45     | 1075.97   | 7.24 | 50.64     | 60.15      | 32.22      | 48.00       | 8.38    | 8.36   | 6.71   | 40.75 | 0.00  | 2.00   |                                                             |
| 7/20/2024 | Average | 12.21  | 2.37   | 64.95  | 724.49     | 1058.25   | 7.01 | 40.38     | 52.13      | 11.75      | 42.36       | 7.07    | 7.43   | 6.60   | 39.42 | 0.00  | 1.00   | Normal(ON)/Shutd<br>own                                     |
|           | Min     | 10.15  | 1.19   | 13.01  | 673.56     | 1005.12   | 6.63 | 36.14     | 49.76      | 9.52       | 39.30       | 7.01    | 7.12   | 6.60   | 38.28 | 0.00  | 1.00   |                                                             |
|           | Max     | 14.15  | 28.56  | 141.99 | 803.88     | 1092.11   | 7.23 | 43.32     | 55.94      | 13.77      | 45.00       | 7.14    | 7.70   | 6.63   | 40.32 | 0.00  | 1.00   |                                                             |
| 7/21/2024 | Average | 12.52  | 3.34   | 33.41  | 853.98     | 1054.63   | 7.23 | 41.43     | 52.33      | 10.90      | 42.54       | 7.09    | 7.44   | 6.60   | 38.86 | 0.00  | 0.90   | Shutdown/Off/Pre<br>heat/Normal(ON)                         |
|           | Min     | 10.30  | 0.00   | -1.98  | 734.02     | 684.80    | 6.94 | 36.81     | 49.57      | 8.74       | 38.10       | 6.99    | 7.23   | 6.60   | 32.18 | 0.00  | 0.00   |                                                             |
|           | Max     | 20.36  | 76.66  | 176.47 | 937.14     | 1120.04   | 7.58 | 45.26     | 54.62      | 13.69      | 45.46       | 7.30    | 7.86   | 6.62   | 40.05 | 0.00  | 1.00   |                                                             |
| 7/22/2024 | Average | 17.03  | 1.40   | 20.65  | 538.71     | 595.79    | 7.30 | 53.95     | 41.07      | -12.88     | 33.19       | 7.83    | 7.50   | 6.60   | 16.11 | 0.00  | 0.37   | Normal(ON)/Shutd<br>own/Off/Preheat                         |
|           | Min     | 7.58   | 0.00   | 0.00   | 250.20     | 180.57    | 6.54 | 26.96     | 30.89      | -35.84     | 21.74       | 7.04    | 7.21   | 6.60   | 0.08  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.41  | 35.77  | 139.90 | 920.35     | 1073.02   | 8.37 | 69.38     | 56.58      | 22.48      | 43.67       | 8.37    | 7.65   | 6.60   | 39.57 | 0.00  | 1.00   |                                                             |
| 7/23/2024 | Average | 12.21  | 2.94   | 51.26  | 749.52     | 1055.05   | 7.18 | 40.25     | 55.77      | 15.52      | 44.91       | 7.11    | 7.24   | 6.60   | 40.24 | 0.00  | 1.21   | Preheat/Normal(O<br>N)                                      |
|           | Min     | 8.41   | 1.01   | 16.56  | 494.62     | 968.81    | 6.79 | 26.60     | 45.74      | 12.74      | 36.65       | 7.03    | 7.16   | 6.60   | 39.05 | 0.00  | 0.00   |                                                             |
|           | Max     | 14.39  | 168.89 | 154.19 | 877.11     | 1085.44   | 7.51 | 43.96     | 58.23      | 19.22      | 47.75       | 7.46    | 7.36   | 6.61   | 40.68 | 0.00  | 2.00   |                                                             |
| 7/24/2024 | Average | 12.46  | 5.69   | 42.54  | 901.96     | 1057.55   | 7.47 | 43.49     | 56.13      | 12.63      | 45.83       | 7.17    | 7.36   | 6.60   | 39.88 | 0.00  | 1.14   | Preheat/Normal(O<br>N)                                      |
|           | Min     | 10.65  | 1.13   | 16.13  | 810.32     | 1008.33   | 7.09 | 38.73     | 54.74      | 10.99      | 43.48       | 7.01    | 7.23   | 6.60   | 39.18 | 0.00  | 1.00   |                                                             |
|           | Max     | 14.49  | 690.34 | 232.30 | 958.95     | 1086.97   | 7.75 | 46.82     | 57.84      | 17.20      | 47.72       | 7.69    | 7.62   | 6.60   | 41.30 | 0.00  | 2.00   |                                                             |
| 7/25/2024 | Average | 12.79  | 3.23   | 49.11  | 915.92     | 1056.50   | 6.85 | 39.12     | 53.20      | 14.08      | 42.76       | 7.21    | 7.50   | 6.59   | 39.00 | 0.00  | 1.48   | Normal(ON)/Shutdo<br>wn/Off/Preheat/Nor<br>mal(ON)/Shutdown |
|           | Min     | 10.99  | 0.00   | 0.00   | 849.31     | 960.24    | 6.62 | 35.93     | 51.17      | 12.35      | 40.39       | 7.11    | 7.33   | 6.55   | 36.87 | 0.00  | 1.00   |                                                             |
|           | Max     | 20.28  | 528.19 | 184.67 | 966.02     | 1100.39   | 7.09 | 42.71     | 55.44      | 16.08      | 45.68       | 7.37    | 7.90   | 6.60   | 41.20 | 0.00  | 2.00   |                                                             |
| 7/26/2024 | Average | 13.17  | 2.73   | 45.42  | 855.03     | 1045.47   | 6.81 | 39.16     | 54.53      | 15.37      | 42.76       | 7.17    | 7.43   | 6.60   | 38.63 | 0.00  | 2.36   | Shutdown/Off/Prehe<br>at/Normal(ON)/Shut<br>down            |
|           | Min     | 10.54  | 0.00   | -4.30  | 793.42     | 703.02    | 6.45 | 36.34     | 48.38      | 9.10       | 35.11       | 7.03    | 7.10   | 6.59   | 30.68 | 0.00  | 1.00   |                                                             |
|           | Max     | 20.38  | 24.20  | 166.13 | 936.34     | 1083.58   | 7.13 | 42.41     | 58.49      | 19.50      | 45.58       | 7.57    | 8.04   | 6.60   | 40.77 | 0.00  | 4.00   |                                                             |
| 7/27/2024 | Average | 19.29  | 0.47   | 3.89   | 471.94     | 381.70    | 7.52 | 33.31     | 38.27      | 4.96       | 31.29       | 8.12    | 7.86   | 6.65   | 8.05  | 0.00  | 0.74   | Shutdown/Off                                                |
|           | Min     | 12.10  | 0.00   | 0.00   | 210.16     | 136.56    | 6.73 | 30.30     | 31.21      | 0.47       | 20.39       | 7.07    | 7.21   | 6.60   | 0.09  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.41  | 16.96  | 49.20  | 869.54     | 1073.07   | 8.30 | 39.72     | 56.60      | 20.44      | 43.31       | 8.50    | 8.03   | 6.80   | 39.11 | 0.00  | 4.00   |                                                             |
| 7/28/2024 | Average | 20.25  | 0.00   | 0.00   | 134.64     | 79.25     | 8.09 | 30.87     | 31.83      | 0.96       | 30.67       | 8.74    | 8.54   | 6.73   | 0.10  | 0.00  | 0.00   | Off                                                         |
|           | Min     | 20.07  | 0.00   | 0.00   | 85.86      | 46.14     | 7.90 | 28.85     | 29.03      | 0.17       | 27.71       | 8.50    | 8.00   | 6.51   | 0.07  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.42  | 0.00   | 0.00   | 210.01     | 136.44    | 8.30 | 31.67     | 32.78      | 1.58       | 32.22       | 9.10    | 9.77   | 6.80   | 0.10  | 0.00  | 0.00   |                                                             |
| 7/29/2024 | Average | 20.25  | 0.00   | 0.00   | 66.09      | 39.58     | 8.12 | 29.27     | 30.26      | 0.99       | 27.43       | 8.94    | 9.78   | 6.69   | 0.09  | 0.00  | 0.00   | Off                                                         |
|           | Min     | 20.09  | 0.00   | 0.00   | 55.12      | 0.00      | 7.90 | 26.07     | 27.77      | -0.05      | 23.58       | 8.64    | 9.61   | 6.68   | 0.05  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.40  | 0.00   | 0.00   | 85.81      | 50.00     | 8.40 | 32.56     | 33.19      | 1.70       | 30.62       | 9.20    | 9.91   | 6.70   | 0.10  | 0.00  | 0.00   |                                                             |
| 7/30/2024 | Average | 20.25  | 0.00   | 0.00   | 48.25      | 46.11     | 8.39 | 30.10     | 31.59      | 1.49       | 30.10       | 8.95    | 10.07  | 6.69   | 0.10  | 0.00  | 0.00   | Off                                                         |
|           | Min     | 20.05  | 0.00   | 0.00   | 44.91      | 41.21     | 8.30 | 28.47     | 30.52      | 0.48       | 28.89       | 8.90    | 9.91   | 6.61   | 0.09  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.44  | 0.00   | 0.00   | 55.10      | 48.83     | 8.50 | 31.67     | 32.69      | 2.13       | 31.11       | 9.00    | 10.20  | 6.70   | 0.10  | 0.00  | 0.00   |                                                             |
| 7/30/2024 | Average | 20.25  | 0.00   | 0.00   | 42.26      | 41.15     | 8.45 | 30.38     | 31.38      | 1.01       | 30.28       | 4.71    | 5.25   | 6.66   | 0.10  | 0.00  | 0.00   | Off                                                         |
|           | Min     | 20.10  | 0.00   | 0.00   | 39.63      | 0.00      | 8.30 | 27.92     | 29.44      | 0.05       | 28.79       | 0.00    | 0.00   | 6.60   | 0.10  | 0.00  | 0.00   |                                                             |
|           | Max     | 20.43  | 0.00   | 0.00   | 44.91      | 46.71     | 8.70 | 32.94     | 33.75      | 1.86       | 32.10       | 9.10    | 10.20  | 6.70   | 0.10  | 0.00  | 0.00   |                                                             |

[illegible]

## July 2024 CEM Calibration Log



**Stericycle®**

**O2 6 minute average < 7.5**

**O2 < 7.5**

|           | Start | Stop  |          | Op.    | Stack |                                                                                     | Actions                                                                |
|-----------|-------|-------|----------|--------|-------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode   | O2 %  | Explanation                                                                         | Taken                                                                  |
| 7/16/2024 | 10:14 | 10:16 | 00:02    | Normal | 7.4   | Low O2% levels were caused by a CO spike that occurred during the charging process. | No waste was fed until the O2% returned to the normal operating range. |

# Carbon Monoxide > 8ppm 4 hour alarm



## Carbon Monoxide > 8ppm 4 hour alarm

|           | Start | Stop  |          | Op.      | Stack CO | Stack CO             |                                                            | Actions                                                                                                          |
|-----------|-------|-------|----------|----------|----------|----------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode     | @ 11% O2 | as mg/m <sup>3</sup> | Explanation                                                | Taken                                                                                                            |
| 7/24/2024 | 16:00 | 19:00 | 03:00    | Normal   | 9.3      | 10.7                 | CO spike occurred during the cycling of the internal rams. | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |
| 7/25/2024 | 0:00  | 3:00  | 03:00    | Shutdown | 11.5     | 13.3                 | CO spike occurred during the cycling of the internal rams. | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |



# Differential from Demister < 10 C



## Differential from Demister < 10°C

|           | Start | Stop  |          | Op.      | Differential Temp |                                                                                                    | Actions                                                                                                                   |
|-----------|-------|-------|----------|----------|-------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode     | Outlet °C         | Explanation                                                                                        | Taken                                                                                                                     |
| 7/10/2024 | 8:37  | 11:43 | 03:06    | Shutdown | 5.2               | Low differential temperature was caused by a lack of reheat steam due to an issue with the boiler. | The incinerator was brought to a controlled shutdown to allow repairs to the boiler. No waste was fed during this period. |



## August 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin   | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp°C | IDFanTemp°C | QuenchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                             |
|-----------|---------|--------|---------|--------|------------|-----------|------|-----------|------------|------------|-------------|----------|--------|--------|-------|-------|--------|----------------------------------------------------|
| 8/1/2024  | Average | 20.25  | 0.00    | 0.00   | 37.19      | 36.69     | 8.49 | 28.95     | 30.82      | 1.87       | 30.05       | 0.01     | 0.01   | 6.66   | 0.16  | 0.00  | 0.00   | Off                                                |
|           | Min     | 20.07  | 0.00    | 0.00   | 36.36      | 22.11     | 8.03 | 26.30     | 29.46      | 0.06       | 27.80       | 0.00     | 0.00   | 6.50   | 0.09  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.42  | 0.00    | 0.00   | 39.62      | 38.89     | 8.70 | 31.71     | 33.21      | 3.38       | 31.67       | 1.07     | 1.09   | 6.70   | 1.53  | 0.00  | 0.00   |                                                    |
| 8/2/2024  | Average | 20.24  | 0.00    | 0.00   | 35.65      | 34.27     | 7.75 | 29.24     | 31.31      | 2.07       | 29.85       | 8.31     | 8.39   | 6.65   | 1.74  | 0.00  | 0.03   | Off/Preheat                                        |
|           | Min     | 20.09  | 0.00    | 0.00   | 35.17      | 27.23     | 7.05 | 24.62     | 27.22      | 1.02       | 27.97       | 1.12     | 1.14   | 6.50   | 0.10  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.41  | 0.00    | 0.00   | 36.50      | 36.92     | 8.33 | 31.65     | 33.07      | 3.48       | 31.96       | 8.81     | 9.08   | 6.70   | 19.10 | 0.00  | 1.00   |                                                    |
| 8/3/2024  | Average | 20.22  | 0.40    | -0.07  | 64.41      | 100.39    | 7.47 | 28.54     | 30.09      | 1.55       | 29.47       | 8.94     | 8.69   | 6.67   | 2.30  | 0.00  | 0.00   | Preheat                                            |
|           | Min     | 19.20  | 0.00    | -5.37  | 33.01      | 32.22     | 6.92 | 24.22     | 26.00      | 0.56       | 27.78       | 7.49     | 6.90   | 6.56   | 0.10  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.42  | 15.32   | 0.00   | 397.46     | 567.87    | 8.05 | 30.81     | 31.47      | 2.43       | 31.11       | 9.10     | 9.08   | 6.70   | 23.03 | 0.00  | 0.00   |                                                    |
| 8/4/2024  | Average | 14.60  | 17.00   | 37.69  | 580.95     | 826.26    | 6.92 | 32.67     | 44.66      | 11.99      | 37.24       | 8.27     | 7.80   | 6.69   | 36.48 | 0.00  | 0.71   | Preheat/Normal(ON)                                 |
|           | Min     | 8.94   | 0.00    | -4.77  | 398.32     | 568.58    | 6.43 | 22.78     | 25.55      | -18.13     | 27.86       | 7.24     | 6.90   | 6.50   | 3.05  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.37  | 241.72  | 130.92 | 670.56     | 1131.19   | 7.40 | 54.12     | 58.76      | 20.62      | 48.28       | 9.00     | 8.59   | 6.80   | 40.23 | 0.00  | 3.00   |                                                    |
| 8/5/2024  | Average | 12.47  | 14.38   | 44.24  | 711.76     | 1044.11   | 7.39 | 41.20     | 55.34      | 14.14      | 45.51       | 9.56     | 8.33   | 6.58   | 39.63 | 0.00  | 2.79   | Normal(ON)/Shutdo<br>wn/Off/Preheat/Nor<br>mal(ON) |
|           | Min     | 8.27   | 1.86    | 14.53  | 543.53     | 416.08    | 7.12 | 30.86     | 53.75      | 11.19      | 42.06       | 8.48     | 7.62   | 6.50   | 38.74 | 0.00  | 1.00   |                                                    |
|           | Max     | 18.91  | 1122.00 | 124.52 | 772.78     | 1546.20   | 7.77 | 45.00     | 57.30      | 23.84      | 48.77       | 10.60    | 8.98   | 6.80   | 40.27 | 0.00  | 5.00   |                                                    |
| 8/6/2024  | Average | 12.73  | 2.88    | 54.50  | 736.78     | 1050.92   | 7.01 | 40.36     | 56.27      | 15.91      | 44.64       | 9.70     | 7.94   | 6.61   | 39.97 | 0.00  | 3.82   | Normal(ON)/Shutdo<br>wn/Off                        |
|           | Min     | 11.08  | 0.00    | 0.00   | 677.26     | 575.26    | 6.80 | 36.24     | 52.63      | 12.43      | 41.85       | 8.68     | 7.37   | 6.60   | 33.29 | 0.00  | 3.00   |                                                    |
|           | Max     | 20.37  | 18.05   | 161.62 | 810.40     | 1082.49   | 7.38 | 44.70     | 59.19      | 19.92      | 48.18       | 10.55    | 8.51   | 6.64   | 40.48 | 0.00  | 5.00   |                                                    |
| 8/7/2024  | Average | 18.84  | 4.86    | 11.45  | 439.27     | 485.26    | 7.22 | 57.13     | 39.18      | -17.96     | 29.21       | 11.78    | 8.78   | 6.64   | 11.88 | 0.00  | 0.80   | Off/Preheat/Shutdow<br>n                           |
|           | Min     | 8.41   | 0.00    | -4.62  | 192.50     | 119.17    | 6.19 | 29.48     | 30.33      | -44.57     | 24.63       | 9.94     | 8.00   | 6.51   | 0.05  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.41  | 1111.88 | 79.61  | 805.85     | 1060.82   | 8.21 | 75.42     | 56.44      | 26.78      | 42.33       | 13.03    | 9.46   | 6.70   | 39.77 | 0.00  | 4.00   |                                                    |
| 8/8/2024  | Average | 11.39  | 8.74    | 53.42  | 624.69     | 1020.89   | 7.04 | 34.16     | 57.96      | 23.80      | 43.19       | 9.87     | 8.98   | 6.67   | 37.85 | 0.00  | 0.39   | Shutdown/Off/Prehe<br>at/Normal(ON)                |
|           | Min     | 7.08   | 0.00    | 0.00   | 328.74     | 754.73    | 6.17 | 22.65     | 40.83      | -14.21     | 31.25       | 8.34     | 7.69   | 6.58   | 14.95 | 0.00  | 0.00   |                                                    |
|           | Max     | 20.30  | 312.71  | 142.98 | 746.11     | 1089.02   | 7.63 | 55.04     | 62.35      | 34.53      | 47.34       | 12.64    | 10.35  | 6.75   | 39.62 | 0.00  | 1.00   |                                                    |
| 8/9/2024  | Average | 11.80  | 2.73    | 52.60  | 818.43     | 1059.88   | 7.51 | 43.19     | 56.61      | 13.42      | 44.70       | 9.44     | 8.13   | 6.76   | 40.10 | 0.00  | 1.00   | Normal(ON)                                         |
|           | Min     | 10.12  | 1.81    | 12.98  | 706.10     | 992.34    | 6.74 | 37.69     | 54.93      | 11.11      | 41.97       | 7.78     | 7.46   | 6.70   | 38.80 | 0.00  | 1.00   |                                                    |
|           | Max     | 13.98  | 9.95    | 156.23 | 922.53     | 1102.44   | 7.79 | 46.39     | 58.86      | 17.46      | 47.01       | 10.74    | 8.82   | 6.80   | 40.61 | 0.00  | 1.00   |                                                    |
| 8/10/2024 | Average | 12.31  | 2.75    | 48.80  | 763.81     | 1053.82   | 6.73 | 37.74     | 54.34      | 16.60      | 41.77       | 10.65    | 8.44   | 6.65   | 39.91 | 0.00  | 1.42   | Normal(ON)                                         |
|           | Min     | 10.37  | 1.75    | 12.79  | 676.19     | 997.88    | 6.64 | 33.92     | 53.55      | 14.05      | 40.53       | 10.23    | 7.79   | 6.56   | 39.68 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.07  | 8.73    | 193.83 | 844.31     | 1086.83   | 6.85 | 40.93     | 55.66      | 19.98      | 44.20       | 11.26    | 8.77   | 6.76   | 40.13 | 0.00  | 3.00   |                                                    |
| 8/11/2024 | Average | 11.95  | 2.74    | 51.50  | 802.81     | 1058.53   | 6.73 | 39.79     | 53.92      | 14.14      | 43.72       | 10.51    | 7.96   | 6.60   | 39.95 | 0.00  | 1.70   | Normal(ON)                                         |
|           | Min     | 9.66   | 1.62    | 11.36  | 648.60     | 995.33    | 6.63 | 33.66     | 51.21      | 11.39      | 40.55       | 10.30    | 7.61   | 6.60   | 39.69 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.04  | 50.06   | 159.97 | 887.32     | 1098.70   | 6.81 | 43.82     | 55.52      | 20.20      | 46.01       | 11.26    | 8.30   | 6.60   | 40.17 | 0.00  | 2.00   |                                                    |
| 8/12/2024 | Average | 14.84  | 6.20    | 38.39  | 655.55     | 859.11    | 6.81 | 41.56     | 49.00      | 7.45       | 37.85       | 11.15    | 8.23   | 6.60   | 30.42 | 0.00  | 1.00   | Normal(ON)/Shutdo<br>wn/Off/Preheat/Shut<br>down   |
|           | Min     | 9.82   | 0.00    | 0.00   | 392.92     | 288.34    | 6.42 | 26.42     | 32.94      | -36.58     | 25.56       | 10.34    | 7.56   | 6.57   | 0.10  | 0.00  | 0.00   |                                                    |
|           | Max     | 20.39  | 226.94  | 107.29 | 909.90     | 1078.72   | 7.65 | 70.48     | 55.25      | 24.43      | 45.08       | 12.71    | 8.60   | 6.60   | 40.82 | 0.00  | 2.00   |                                                    |
| 8/13/2024 | Average | 11.84  | 4.27    | 49.89  | 701.25     | 1053.50   | 6.81 | 37.13     | 53.63      | 16.51      | 43.94       | 9.60     | 8.08   | 6.60   | 40.33 | 0.00  | 1.37   | Shutdown/Preheat/N<br>ormal(ON)                    |
|           | Min     | 10.01  | 1.70    | 5.88   | 533.80     | 960.14    | 6.45 | 26.80     | 51.19      | 12.35      | 39.45       | 7.73     | 7.35   | 6.60   | 40.12 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.09  | 390.43  | 185.68 | 808.63     | 1086.46   | 7.11 | 42.59     | 55.14      | 25.00      | 47.42       | 10.92    | 8.49   | 6.60   | 40.75 | 0.00  | 2.00   |                                                    |
| 8/14/2024 | Average | 12.28  | 3.48    | 48.72  | 790.64     | 1057.34   | 6.81 | 37.48     | 53.29      | 15.80      | 44.02       | 9.73     | 8.30   | 6.58   | 40.17 | 0.00  | 2.04   | Normal(ON)                                         |
|           | Min     | 10.41  | 1.88    | 9.96   | 721.49     | 981.92    | 6.48 | 34.75     | 50.50      | 13.40      | 41.14       | 9.22     | 7.94   | 6.50   | 39.96 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.33  | 585.04  | 186.88 | 864.84     | 1090.39   | 6.96 | 40.61     | 54.39      | 19.01      | 45.76       | 10.28    | 8.82   | 6.61   | 40.37 | 0.00  | 3.00   |                                                    |
| 8/15/2024 | Average | 12.31  | 3.44    | 58.15  | 760.41     | 1053.22   | 7.01 | 38.92     | 54.52      | 15.60      | 45.16       | 9.21     | 8.31   | 6.57   | 40.02 | 0.00  | 2.09   | Normal(ON)                                         |
|           | Min     | 9.97   | 1.85    | 13.39  | 675.10     | 977.32    | 6.73 | 32.28     | 53.10      | 13.20      | 42.50       | 8.25     | 7.59   | 6.50   | 39.85 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.37  | 243.15  | 171.52 | 826.20     | 1088.10   | 7.24 | 42.72     | 56.16      | 20.82      | 47.83       | 10.38    | 8.84   | 6.63   | 40.15 | 0.00  | 3.00   |                                                    |
| 8/16/2024 | Average | 12.08  | 7.85    | 47.53  | 841.00     | 1053.07   | 7.21 | 40.70     | 55.82      | 15.12      | 46.06       | 9.10     | 8.66   | 6.58   | 39.68 | 0.00  | 1.90   | Normal(ON)/Shutdo<br>wn/Normal(ON)                 |
|           | Min     | 9.25   | 1.99    | 8.05   | 742.16     | 911.51    | 6.78 | 33.78     | 52.77      | 11.37      | 43.06       | 8.04     | 8.26   | 6.52   | 39.36 | 0.00  | 1.00   |                                                    |
|           | Max     | 14.88  | 574.94  | 196.87 | 936.50     | 1081.40   | 7.49 | 47.51     | 58.88      | 20.27      | 50.72       | 10.26    | 8.92   | 6.63   | 39.95 | 0.00  | 3.00   |                                                    |
| 8/17/2024 | Average | 12.83  | 11.72   | 33.05  | 849.64     | 1048.36   | 7.60 | 41.20     | 57.05      | 15.85      | 46.60       | 9.28     | 9.06   | 6.58   | 38.04 | 0.00  | 2.04   | Normal(ON)/Shutdo<br>wn/Off/Preheat                |
|           | Min     | 6.89   | 0.00    | -4.50  | 598.16     | 701.43    | 7.31 | 30.44     | 54.13      | 12.61      | 42.59       | 8.47     | 8.73   | 6.50   | 21.23 | 0.00  | 1.00   |                                                    |
|           | Max     | 20.36  | 708.46  | 135.66 | 923.07     | 1113.03   | 7.81 | 46.58     | 59.22      | 23.69      | 50.26       | 9.92     | 9.69   | 6.60   | 39.67 | 0.00  | 3.00   |                                                    |
| 8/18/2024 | Average | 11.92  | 5.82    | 27.80  | 804.12     | 1058.41   | 7.44 | 39.80     | 55.70      | 15.90      | 45.89       | 8.38     | 8.64   | 6.54   | 38.23 | 0.00  | 1.87   | Preheat/Normal(ON)/<br>Shutdown/Normal(O<br>n)     |
|           | Min     | 9.46   | 2.22    | -2.75  | 590.59     | 987.96    | 7.05 | 30.01     | 53.27      | 12.94      | 42.41       | 6.94     | 7.99   | 6.50   | 21.45 | 0.00  | 1.00   |                                                    |
|           | Max     | 19.15  | 935.68  | 127.20 | 960.77     | 1123.22   | 7.57 | 44.73     | 57.69      | 24.03      | 49.36       | 9.27     | 9.84   | 6.60   | 39.75 | 0.00  | 2.00   |                                                    |



## August 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin  | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp°C | IDFanTemp°C | QunchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                     |
|-----------|---------|--------|--------|--------|------------|-----------|------|-----------|------------|------------|-------------|---------|--------|--------|-------|-------|--------|--------------------------------------------|
| 8/19/2024 | Average | 18.69  | 0.84   | 10.74  | 494.21     | 423.06    | 7.18 | 29.00     | 34.36      | 5.36       | 26.35       | 10.18   | 8.24   | 6.50   | 11.00 | 0.00  | 0.58   | Normal(ON)/Shutdown/Off                    |
|           | Min     | 11.09  | 0.00   | 0.00   | 203.34     | 120.60    | 6.47 | 23.23     | 24.03      | 0.34       | 17.37       | 8.02    | 7.76   | 6.50   | 0.00  | 0.00  | 0.00   |                                            |
|           | Max     | 20.41  | 12.45  | 96.04  | 925.48     | 1077.39   | 7.40 | 39.28     | 53.57      | 19.38      | 43.71       | 11.06   | 8.39   | 6.54   | 39.43 | 0.00  | 3.00   |                                            |
| 8/20/2024 | Average | 20.23  | 0.82   | -0.13  | 129.89     | 80.07     | 6.88 | 21.73     | 23.04      | 1.30       | 19.48       | 10.31   | 8.92   | 6.45   | 1.16  | 0.00  | 0.00   | Off                                        |
|           | Min     | 19.65  | 0.00   | -6.29  | 85.17      | 58.38     | 5.51 | 16.42     | 18.53      | 0.49       | 16.24       | 9.42    | 8.30   | 6.30   | 0.00  | 0.00  | 0.00   |                                            |
|           | Max     | 20.42  | 25.76  | 0.00   | 203.18     | 120.54    | 7.45 | 23.23     | 24.14      | 2.49       | 23.01       | 11.04   | 10.02  | 6.50   | 9.16  | 0.00  | 0.00   |                                            |
| 8/21/2024 | Average | 16.06  | 4.25   | 16.75  | 278.18     | 464.18    | 6.40 | 23.05     | 37.91      | 14.85      | 28.73       | 8.95    | 8.80   | 6.51   | 17.32 | 0.00  | 0.28   | Off/Preheat/Normal(ON)                     |
|           | Min     | 7.40   | 0.00   | -7.36  | 59.84      | 44.44     | 5.81 | 19.60     | 21.73      | -4.85      | 16.65       | 7.76    | 7.00   | 6.40   | 0.00  | 0.00  | 0.00   |                                            |
|           | Max     | 20.40  | 105.29 | 125.41 | 660.48     | 1060.19   | 6.88 | 32.92     | 57.88      | 38.20      | 43.29       | 9.63    | 10.01  | 6.80   | 39.21 | 0.00  | 2.00   |                                            |
| 8/22/2024 | Average | 12.33  | 3.60   | 52.15  | 742.63     | 1049.86   | 6.49 | 38.80     | 55.89      | 17.09      | 45.39       | 8.40    | 7.91   | 6.59   | 38.12 | 0.00  | 2.94   | Normal(ON)                                 |
|           | Min     | 10.35  | 2.50   | 10.29  | 656.70     | 988.16    | 6.06 | 32.44     | 53.70      | 12.04      | 42.59       | 7.68    | 6.92   | 6.50   | 36.58 | 0.00  | 2.00   |                                            |
|           | Max     | 14.65  | 238.73 | 181.01 | 804.16     | 1077.04   | 6.82 | 42.35     | 56.80      | 23.68      | 47.25       | 10.47   | 8.86   | 6.61   | 39.65 | 0.00  | 4.00   |                                            |
| 8/23/2024 | Average | 13.49  | 3.68   | 51.18  | 728.89     | 995.74    | 6.69 | 38.32     | 54.92      | 16.60      | 44.13       | 9.71    | 8.59   | 6.59   | 37.95 | 0.00  | 4.56   | Normal(ON)/Shutdown/Off/Preheat            |
|           | Min     | 9.61   | 0.00   | 0.00   | 525.37     | 392.08    | 6.27 | 31.08     | 42.81      | -15.77     | 34.14       | 8.87    | 8.14   | 6.50   | 8.09  | 0.00  | 1.00   |                                            |
|           | Max     | 20.37  | 142.53 | 153.62 | 804.11     | 1080.64   | 7.52 | 58.58     | 56.79      | 23.50      | 47.38       | 11.50   | 9.04   | 6.64   | 40.28 | 0.00  | 7.00   |                                            |
| 8/24/2024 | Average | 12.68  | 5.05   | 40.40  | 784.21     | 1034.98   | 7.00 | 42.06     | 51.61      | 9.55       | 42.13       | 10.07   | 8.33   | 6.57   | 34.05 | 0.00  | 0.77   | Preheat/Normal(ON)                         |
|           | Min     | 8.91   | 0.00   | -3.05  | 502.50     | 390.79    | 6.35 | 31.63     | 29.14      | -35.73     | 25.05       | 8.98    | 7.66   | 6.50   | 0.10  | 0.00  | 0.00   |                                            |
|           | Max     | 20.37  | 288.55 | 225.84 | 930.75     | 1085.66   | 7.89 | 67.27     | 56.55      | 21.17      | 46.95       | 11.91   | 9.26   | 6.62   | 40.30 | 0.00  | 1.00   |                                            |
| 8/25/2024 | Average | 12.03  | 4.60   | 42.73  | 841.38     | 1062.84   | 7.07 | 40.71     | 55.26      | 14.55      | 44.56       | 9.43    | 8.31   | 6.59   | 38.82 | 0.00  | 1.23   | Normal(ON)                                 |
|           | Min     | 10.72  | 2.72   | 16.37  | 769.97     | 1012.27   | 6.69 | 36.65     | 53.26      | 11.54      | 40.63       | 8.96    | 7.85   | 6.50   | 38.50 | 0.00  | 1.00   |                                            |
|           | Max     | 13.32  | 286.91 | 118.68 | 939.91     | 1090.63   | 7.39 | 44.82     | 56.58      | 17.32      | 47.58       | 9.96    | 8.85   | 6.70   | 39.09 | 0.00  | 2.00   |                                            |
| 8/26/2024 | Average | 16.49  | 6.13   | 23.71  | 655.97     | 641.39    | 7.40 | 50.93     | 45.55      | -5.39      | 36.66       | 10.45   | 9.40   | 6.54   | 22.20 | 0.00  | 0.57   | Normal(ON)/Shutdown/Off/Preheat            |
|           | Min     | 10.57  | 0.00   | 0.00   | 330.29     | 209.61    | 6.74 | 24.83     | 33.67      | -42.09     | 27.29       | 8.41    | 7.92   | 6.50   | 0.10  | 0.00  | 0.00   |                                            |
|           | Max     | 20.41  | 128.98 | 149.29 | 952.72     | 1074.20   | 8.66 | 77.59     | 55.39      | 24.68      | 44.64       | 14.00   | 13.40  | 6.60   | 40.40 | 0.00  | 1.00   |                                            |
| 8/27/2024 | Average | 11.41  | 4.86   | 52.14  | 742.68     | 1056.89   | 7.56 | 39.83     | 56.62      | 16.79      | 46.44       | 8.16    | 7.93   | 6.53   | 39.32 | 0.00  | 1.18   | Preheat/Normal(ON)                         |
|           | Min     | 7.65   | 2.29   | 5.85   | 533.80     | 952.26    | 6.93 | 24.17     | 51.76      | 11.40      | 38.64       | 7.20    | 7.20   | 6.50   | 37.93 | 0.00  | 0.00   |                                            |
|           | Max     | 15.82  | 379.74 | 160.73 | 825.40     | 1091.83   | 7.98 | 45.51     | 62.59      | 38.15      | 49.68       | 10.05   | 8.86   | 6.60   | 40.10 | 0.00  | 2.00   |                                            |
| 8/28/2024 | Average | 11.76  | 5.67   | 38.96  | 899.72     | 1053.44   | 7.32 | 38.27     | 55.64      | 17.37      | 45.27       | 7.46    | 7.54   | 6.50   | 39.99 | 0.00  | 1.87   | Normal(ON)/Shutdown/Normal(ON)             |
|           | Min     | 8.77   | 2.52   | 3.29   | 826.17     | 946.97    | 6.77 | 26.10     | 53.48      | 14.39      | 40.77       | 6.92    | 7.10   | 6.50   | 39.58 | 0.00  | 0.00   |                                            |
|           | Max     | 13.62  | 699.31 | 275.79 | 952.28     | 1104.27   | 7.73 | 42.19     | 56.63      | 29.58      | 48.31       | 7.86    | 8.05   | 6.50   | 40.63 | 0.00  | 2.00   |                                            |
| 8/29/2024 | Average | 16.42  | 3.04   | 15.80  | 560.56     | 525.29    | 6.92 | 53.10     | 40.60      | -12.50     | 30.03       | 7.72    | 7.67   | 6.58   | 17.66 | 0.00  | 0.76   | Normal(ON)/Shutdown/Off/Preheat            |
|           | Min     | 6.69   | 0.00   | 0.00   | 294.50     | 57.23     | 6.23 | 20.50     | 29.15      | -43.85     | 20.20       | 7.17    | 7.21   | 6.50   | 0.04  | 0.00  | 0.00   |                                            |
|           | Max     | 20.41  | 429.99 | 107.39 | 895.48     | 1083.49   | 7.74 | 75.47     | 55.62      | 35.12      | 43.67       | 7.95    | 8.19   | 6.68   | 40.50 | 0.00  | 3.00   |                                            |
| 8/30/2024 | Average | 10.37  | 4.52   | 48.45  | 679.61     | 1027.69   | 6.83 | 31.26     | 56.77      | 25.51      | 44.06       | 7.55    | 7.52   | 6.65   | 38.71 | 0.00  | 1.71   | Preheat/Shutdown/Off/Preheat/Normal(ON)    |
|           | Min     | 3.90   | 0.00   | 0.00   | 518.66     | 827.41    | 5.83 | 18.33     | 49.44      | 13.52      | 38.00       | 6.87    | 7.04   | 6.57   | 37.20 | 0.00  | 0.00   |                                            |
|           | Max     | 16.22  | 654.04 | 174.91 | 810.03     | 1087.51   | 7.60 | 42.19     | 61.31      | 42.97      | 48.72       | 7.90    | 10.50  | 6.86   | 40.71 | 0.00  | 5.00   |                                            |
| 8/31/2024 | Average | 12.00  | 5.19   | 39.70  | 814.08     | 1043.65   | 7.20 | 34.14     | 55.07      | 20.92      | 44.23       | 7.58    | 7.50   | 6.53   | 40.02 | 0.00  | 2.86   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 7.30   | 0.00   | 8.56   | 714.54     | 890.83    | 6.89 | 22.58     | 51.40      | 14.73      | 41.20       | 7.06    | 7.00   | 6.50   | 39.68 | 0.00  | 0.00   |                                            |
|           | Max     | 15.46  | 755.30 | 116.58 | 883.54     | 1084.99   | 7.62 | 41.66     | 60.97      | 38.38      | 48.16       | 8.00    | 8.70   | 6.60   | 40.77 | 0.00  | 5.00   |                                            |



## August 2024 Incineration Feed Log

| TheDate   | 00:00  | 01:00  | 02:00  | 03:00  | 04:00  | 05:00  | 06:00  | 07:00  | 08:00  | 09:00  | 10:00  | 11:00  | 12:00  | 13:00  | 14:00  | 15:00  | 16:00  | 17:00  | 18:00  | 19:00  | 20:00  | 21:00  | 22:00  | 23:00  | DailySum | Monthly Sum |          |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|----------|
| 01-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 0.00        | 203226.8 |
| 02-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 0.00        |          |
| 03-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 0.00        |          |
| 04-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 504.20 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 263.70 | 515.40 | 515.60 | 513.80 | 510.30 | 542.40 | 223.00 | 551.40 | 551.80 | 551.30 | 552.10 | 552.10   | 5795.00     |          |
| 05-Aug-24 | 571.50 | 570.30 | 572.70 | 570.20 | 570.90 | 570.90 | 405.10 | 451.00 | 201.90 | 15.30  | 0.00   | 0.00   | 514.50 | 251.00 | 403.50 | 515.00 | 519.60 | 504.50 | 508.60 | 508.00 | 571.90 | 572.10 | 596.10 | 34.40  | 9999.00  |             |          |
| 06-Aug-24 | 578.40 | 575.10 | 573.30 | 571.30 | 558.30 | 554.40 | 552.20 | 429.20 | 509.80 | 503.30 | 502.20 | 501.30 | 514.20 | 554.00 | 557.70 | 562.30 | 550.10 | 503.30 | 349.60 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 07-Aug-24 | 0.00   | 0.00   | 59.00  | 501.40 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 560.40      |          |
| 08-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 272.60 | 231.90 | 138.90 | 551.30 | 567.50 | 563.40 | 503.00 | 530.00 | 550.50 | 550.70 | 550.20 | 551.20 | 552.90 | 6114.10  |             |          |
| 09-Aug-24 | 550.30 | 550.00 | 550.60 | 554.90 | 550.70 | 553.80 | 406.30 | 238.70 | 507.10 | 562.70 | 558.50 | 553.00 | 568.20 | 344.50 | 566.60 | 429.40 | 579.30 | 526.00 | 501.20 | 291.00 | 57.20  | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 10-Aug-24 | 555.80 | 553.50 | 557.20 | 553.30 | 551.60 | 557.90 | 550.90 | 551.30 | 551.10 | 551.30 | 551.10 | 554.40 | 551.50 | 569.70 | 551.70 | 554.40 | 554.50 | 578.80 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 11-Aug-24 | 552.40 | 560.50 | 553.40 | 555.70 | 552.80 | 551.90 | 488.70 | 341.40 | 501.50 | 329.10 | 504.50 | 500.40 | 305.10 | 501.90 | 400.60 | 302.10 | 401.20 | 301.60 | 302.10 | 555.90 | 557.90 | 379.30 | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 12-Aug-24 | 565.10 | 616.20 | 401.80 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 1583.10     |          |
| 13-Aug-24 | 0.00   | 566.70 | 573.50 | 557.50 | 552.40 | 504.60 | 604.50 | 297.70 | 556.90 | 557.60 | 554.40 | 555.40 | 552.20 | 543.00 | 563.30 | 423.20 | 407.90 | 355.00 | 504.20 | 514.40 | 248.70 | 0.00   | 0.00   | 0.00   | 0.00     | 9993.10     |          |
| 14-Aug-24 | 552.30 | 550.40 | 551.20 | 552.80 | 552.10 | 549.60 | 406.80 | 560.10 | 570.50 | 566.30 | 562.10 | 573.60 | 559.80 | 567.50 | 567.70 | 508.80 | 510.20 | 434.30 | 301.60 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 9997.70     |          |
| 15-Aug-24 | 550.20 | 551.90 | 553.40 | 556.10 | 553.30 | 550.20 | 550.80 | 470.80 | 603.50 | 557.10 | 551.40 | 501.20 | 547.00 | 531.50 | 501.00 | 501.70 | 502.00 | 500.90 | 366.00 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 16-Aug-24 | 554.80 | 550.90 | 559.10 | 550.70 | 550.50 | 551.60 | 556.50 | 525.80 | 563.40 | 567.20 | 504.20 | 500.10 | 501.60 | 436.60 | 561.50 | 504.20 | 500.50 | 0.00   | 200.40 | 529.70 | 230.70 | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 17-Aug-24 | 551.50 | 559.70 | 557.00 | 601.80 | 600.20 | 606.40 | 409.20 | 327.80 | 486.40 | 503.00 | 310.80 | 504.40 | 447.50 | 261.70 | 510.40 | 411.30 | 440.40 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 8089.50     |          |
| 18-Aug-24 | 33.80  | 429.20 | 553.00 | 553.00 | 501.50 | 407.00 | 404.30 | 394.00 | 514.40 | 503.90 | 506.30 | 501.30 | 501.70 | 504.00 | 504.90 | 228.80 | 115.00 | 0.00   | 0.00   | 0.00   | 505.30 | 490.20 | 505.80 | 561.00 | 9218.40  |             |          |
| 19-Aug-24 | 71.60  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 71.60       |          |
| 20-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 0.00        |          |
| 21-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 503.60 | 504.50 | 505.70 | 1513.80  |             |          |
| 22-Aug-24 | 568.80 | 560.20 | 597.60 | 503.20 | 570.40 | 614.60 | 490.00 | 553.60 | 560.80 | 542.50 | 563.80 | 554.40 | 566.00 | 496.00 | 555.00 | 554.20 | 570.40 | 578.50 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 23-Aug-24 | 552.50 | 550.20 | 550.40 | 551.50 | 550.40 | 550.90 | 469.60 | 196.30 | 604.30 | 552.50 | 601.00 | 558.70 | 555.00 | 568.10 | 559.00 | 572.30 | 424.60 | 174.20 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 9141.50     |          |
| 24-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 514.20 | 504.30 | 515.20 | 504.30 | 506.00 | 502.00 | 501.20 | 500.20 | 301.80 | 501.80 | 501.40 | 508.90 | 501.10 | 500.50 | 200.70 | 605.30 | 624.90 | 600.70 | 610.20 | 495.30 | 10000.00 |             |          |
| 25-Aug-24 | 573.50 | 584.40 | 572.60 | 576.20 | 573.20 | 573.70 | 571.10 | 501.30 | 500.00 | 501.10 | 406.30 | 401.20 | 300.60 | 401.90 | 401.80 | 400.60 | 401.20 | 402.50 | 401.60 | 528.00 | 427.20 | 0.00   | 0.00   | 0.00   | 0.00     | 10000.00    |          |
| 26-Aug-24 | 501.40 | 515.10 | 500.60 | 509.20 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 2026.30     |          |
| 27-Aug-24 | 504.90 | 504.50 | 504.30 | 457.40 | 509.30 | 454.70 | 510.80 | 513.90 | 552.30 | 552.20 | 595.70 | 556.40 | 556.00 | 554.10 | 339.00 | 0.00   | 0.00   | 91.80  | 500.60 | 560.90 | 557.40 | 554.80 | 69.00  | 0.00   | 10000.00 |             |          |
| 28-Aug-24 | 551.40 | 552.30 | 550.20 | 551.20 | 550.40 | 551.80 | 366.00 | 572.00 | 562.70 | 534.00 | 570.90 | 25.60  | 0.00   | 0.00   | 0.00   | 574.30 | 581.50 | 501.90 | 505.00 | 551.00 | 365.40 | 553.80 | 428.60 | 0.00   | 10000.00 |             |          |
| 29-Aug-24 | 564.30 | 553.30 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00     | 1117.60     |          |
| 30-Aug-24 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 276.00 | 559.50 | 551.60 | 561.10 | 579.30 | 552.10 | 551.40 | 550.60 | 552.70 | 552.30 | 553.30 | 550.30 | 557.60 | 562.50 | 495.40 | 8005.70  |             |          |
| 31-Aug-24 | 501.30 | 500.60 | 508.70 | 504.50 | 473.80 | 236.90 | 0.00   | 0.00   | 0.00   | 0.00   | 233.00 | 506.80 | 339.00 | 527.30 | 517.50 | 379.10 | 512.00 | 439.50 | 502.40 | 319.50 | 564.60 | 630.30 | 606.20 | 637.60 | 559.40   | 10000.00    |          |



## August 2024 CEM Calibration Log

[illegible]



# O2 6 minute average < 7.5

O2 < 7.5

|           | Start | Stop  |          | Op.      | Stack |                                                                                                    | Actions                                                                                                                                         |
|-----------|-------|-------|----------|----------|-------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode     | O2 %  | Explanation                                                                                        | Taken                                                                                                                                           |
| 8/17/2024 | 17:34 | 17:37 | 00:03    | Normal   | 7.1   | Low O2% levels were caused by high CO levels due to a malfunction of the flameport VFD.            | The incinerator was brought to a controlled shutdown to allow for repairs to the flameport VFD. No waste was fed during this period.            |
| 8/31/2024 | 7:13  | 7:14  | 00:01    | Shutdown | 7.3   | Low O2% levels were caused by high CO levels due to a malfunction of the secondary chamber burner. | The incinerator was brought to a controlled shutdown to allow for repairs to the secondary chamber burner. No waste was fed during this period. |

# Carbon Monoxide > 8ppm 12 hour alarm



## Carbon Monoxide > 8ppm 12 hour alarm

|           | Start | Stop |          | Op.      | Stack CO | Stack CO             |                                                                 | Actions                                                                                                                              |
|-----------|-------|------|----------|----------|----------|----------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time | Duration | Mode     | @ 11% O2 | as mg/m <sup>3</sup> | Explanation                                                     | Taken                                                                                                                                |
| 8/17/2024 | 18:00 | 7:00 | 13:00    | Shutdown | 18.2     | 21.0                 | Hi CO levels were caused due a malfunction of the flamport VFD. | The incinerator was brought to a controlled shutdown to allow for repairs to the flameport VFD. No waste was fed during this period. |

# Carbon Monoxide > 8ppm 4 hour alarm



## Carbon Monoxide > 8ppm 4 hour alarm

|           | Start | Stop  |          | Op.      | Stack CO | Stack CO             |                                                                              | Actions                                                                                                                       |
|-----------|-------|-------|----------|----------|----------|----------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode     | @ 11% O2 | as mg/m <sup>3</sup> | Explanation                                                                  | Taken                                                                                                                         |
| 8/5/2024  | 9:00  | 12:00 | 03:00    | Shutdown | 20.7     | 23.9                 | CO spike occurred during the cycling of the internal rams.                   | No waste was fed at this time. The incinerator was brought to a controlled shutdown                                           |
| 8/7/2024  | 6:00  | 8:00  | 02:00    | Shutdown | 11.9     | 13.7                 | High CO levels were caused by an issue with the incinerators draft control.  | No waste was fed at this time. The incinerator was brought to a controlled shutdown to allow for repair of the draft control. |
| 8/16/2024 | 1:00  | 5:00  | 04:00    | Normal   | 16.3     | 18.8                 | High CO levels were caused by a malfunction of the secondary chamber burner. | No waste was fed at this time. The incinerator was brought to a controlled shutdown                                           |
| 8/16/2024 | 18:00 | 22:00 | 04:00    | Shutdown | 16.1     | 18.6                 | High CO levels were caused by a malfunction of the secondary chamber burner. | No waste was fed at this time. The incinerator was brought to a controlled shutdown                                           |
| 8/24/2024 | 6:00  | 7:00  | 01:00    | Normal   | 9.2      | 10.6                 | CO spike occurred during the cycling of the internal rams.                   | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range.              |
| 8/31/2024 | 07:00 | 9:00  | 02:00    | Shutdown | 11.8     | 13.6                 | CO spike occurred during the cycling of the internal rams.                   | No waste was fed at this time. The incinerator was brought to a controlled shutdown                                           |
| 8/31/2024 | 14:00 | 19:00 | 05:00    | Normal   | 18.1     | 20.9                 | High CO levels were caused by a malfunction of the secondary chamber burner. | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range.              |



## Secondary Chamber Temperature < 1000°C

| Date      | Start Time | Stop Time | Duration | Op. Mode | Temp. °C | Explanation                                                                                                         | Actions Taken                                                                                                            |
|-----------|------------|-----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 8/5/2024  | 9:34       | 9:52      | 00:18    | Shutdown | 904      | Low secondary chamber temperature was caused by failure of the secondary chamber thermocouple..                     | The incinerator was brought to a controlled shutdown to allow maintenance to replace the secondary chamber thermocouple. |
| 8/5/2024  | 10:39      | 11:59     | 01:20    | Shutdown | 792      | Low secondary chamber temperature was caused by failure of the secondary chamber thermocouple..                     | The incinerator was brought to a controlled shutdown to allow maintenance to replace the secondary chamber thermocouple. |
| 8/23/2024 | 18:59      | 20:02     | 01:03    | Shutdown | 986      | Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.                    | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                     |
| 8/27/2024 | 17:33      | 18:06     | 00:33    | Shutdown | 964      | Low secondary chamber temperature was caused by an incorrect flame port air setting while the incinerator was idle. | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                     |
| 8/29/2024 | 4:27       | 5:44      | 01:17    | Shutdown | 966      | Low upper chamber temperature was caused by a malfunction of the secondary chamber burner.                          | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                     |
| 8/31/2024 | 7:35       | 8:31      | 00:56    | Shutdown | 923      | Low upper chamber temperature was caused by a malfunction of the secondary chamber burner.                          | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                     |



## September 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin   | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp | IDFanTemp°C | QuenchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                                 |
|-----------|---------|--------|---------|--------|------------|-----------|------|-----------|------------|----------|-------------|----------|--------|--------|-------|-------|--------|--------------------------------------------------------|
| 9/1/2024  | Average | 18.96  | 1.07    | 10.21  | 434.60     | 387.78    | 7.63 | 68.24     | 44.87      | -23.37   | 30.03       | 7.85     | 7.26   | 6.73   | 9.49  | 0.00  | 0.43   | Normal(ON)/Shutdown/Off                                |
|           | Min     | 8.09   | 0.00    | 0.00   | 189.82     | 122.36    | 6.49 | 23.58     | 35.38      | -41.76   | 22.41       | 6.70     | 7.14   | 6.50   | 0.10  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.41  | 513.97  | 81.23  | 793.50     | 1070.73   | 8.46 | 84.92     | 54.88      | 30.23    | 45.19       | 8.10     | 8.09   | 6.80   | 40.12 | 0.00  | 5.00   |                                                        |
| 9/2/2024  | Average | 20.25  | 0.00    | 0.00   | 122.82     | 80.62     | 8.00 | 32.67     | 28.23      | -4.43    | 21.41       | 8.43     | 7.20   | 6.67   | 0.07  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.07  | 0.00    | 0.00   | 80.92      | 56.26     | 7.60 | 24.34     | 25.41      | -41.50   | 18.53       | 8.10     | 7.20   | 6.60   | 0.04  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.42  | 0.00    | 0.00   | 189.68     | 122.26    | 8.41 | 81.83     | 40.46      | 1.43     | 23.65       | 8.80     | 7.20   | 6.70   | 0.10  | 0.00  | 0.00   |                                                        |
| 9/3/2024  | Average | 20.25  | 0.00    | 0.00   | 61.98      | 47.28     | 7.57 | 50.20     | 38.83      | -11.38   | 21.54       | 8.59     | 7.26   | 6.60   | 0.02  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.09  | 0.00    | 0.00   | 50.19      | 37.52     | 7.40 | 23.06     | 24.18      | -39.03   | 17.05       | 8.20     | 7.20   | 6.60   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.40  | 0.00    | 0.00   | 80.88      | 56.21     | 7.87 | 78.09     | 50.28      | 1.12     | 26.11       | 8.80     | 7.31   | 6.60   | 0.07  | 0.00  | 0.00   |                                                        |
| 9/4/2024  | Average | 20.25  | 0.00    | 0.00   | 42.47      | 37.93     | 7.73 | 56.50     | 43.55      | -12.95   | 23.05       | 8.05     | 7.30   | 6.60   | 0.03  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.07  | 0.00    | 0.00   | 37.97      | 36.14     | 7.55 | 52.75     | 34.79      | -23.00   | 18.52       | 7.41     | 7.30   | 6.60   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.44  | 0.00    | 0.00   | 50.18      | 42.73     | 7.90 | 60.98     | 51.66      | -1.87    | 26.67       | 8.40     | 7.30   | 6.60   | 0.07  | 0.00  | 0.00   |                                                        |
| 9/5/2024  | Average | 19.52  | 0.11    | 2.32   | 129.11     | 103.28    | 7.48 | 31.52     | 39.44      | 7.92     | 27.21       | 7.29     | 7.24   | 6.65   | 5.62  | 0.00  | 0.17   | Off                                                    |
|           | Min     | 7.67   | 0.00    | -1.52  | 33.98      | 32.57     | 6.51 | 21.56     | 26.42      | -11.89   | 20.55       | 6.40     | 7.09   | 6.60   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.43  | 15.03   | 33.33  | 418.01     | 655.31    | 7.90 | 57.94     | 56.62      | 24.84    | 36.16       | 7.84     | 7.35   | 6.89   | 40.42 | 0.00  | 1.00   |                                                        |
| 9/6/2024  | Average | 20.25  | 0.00    | 0.00   | 54.89      | 35.71     | 7.73 | 35.27     | 47.86      | 12.59    | 31.64       | 6.37     | 7.20   | 6.79   | 0.04  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.07  | 0.00    | 0.00   | 40.41      | 26.11     | 7.69 | 25.44     | 28.54      | 2.67     | 27.30       | 5.34     | 7.20   | 6.65   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.42  | 0.00    | 0.00   | 83.86      | 51.67     | 7.80 | 42.25     | 56.64      | 22.13    | 35.63       | 7.34     | 7.21   | 7.05   | 0.08  | 0.00  | 0.00   |                                                        |
| 9/7/2024  | Average | 20.25  | 0.00    | 0.00   | 33.81      | 27.99     | 7.56 | 28.33     | 43.14      | 14.81    | 31.26       | 5.28     | 7.20   | 6.54   | 0.00  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.10  | 0.00    | 0.00   | 28.68      | 25.03     | 7.34 | 21.30     | 23.01      | 1.71     | 24.29       | 4.95     | 7.20   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.40  | 0.00    | 0.00   | 40.40      | 29.44     | 7.72 | 36.51     | 55.50      | 26.58    | 34.56       | 5.40     | 7.21   | 6.65   | 0.01  | 0.00  | 0.00   |                                                        |
| 9/8/2024  | Average | 20.25  | 0.00    | 0.00   | 26.01      | 23.34     | 7.08 | 20.90     | 21.97      | 1.08     | 22.02       | 5.08     | 7.20   | 6.50   | 0.00  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.07  | 0.00    | 0.00   | 24.75      | 22.78     | 7.00 | 19.80     | 20.94      | 0.72     | 21.43       | 4.88     | 7.20   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.44  | 0.00    | 0.00   | 28.68      | 25.04     | 7.34 | 21.68     | 23.00      | 1.70     | 24.28       | 5.12     | 7.20   | 6.50   | 0.01  | 0.00  | 0.00   |                                                        |
| 9/9/2024  | Average | 20.25  | 0.00    | 0.00   | 24.47      | 24.19     | 7.05 | 31.81     | 42.23      | 10.42    | 26.34       | 4.89     | 7.27   | 6.50   | 0.00  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.05  | 0.00    | 0.00   | 23.89      | 22.43     | 6.90 | 20.05     | 21.67      | 1.27     | 20.82       | 4.83     | 7.20   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.43  | 0.00    | 0.00   | 25.00      | 26.11     | 7.30 | 39.69     | 56.39      | 21.79    | 33.37       | 4.90     | 7.30   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
| 9/10/2024 | Average | 20.25  | 0.00    | 0.00   | 24.21      | 25.61     | 7.26 | 40.66     | 53.64      | 12.98    | 29.27       | 4.79     | 7.30   | 6.50   | 0.00  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.10  | 0.00    | 0.00   | 23.33      | 23.89     | 7.10 | 36.12     | 50.79      | 7.88     | 26.82       | 4.70     | 7.30   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.42  | 0.00    | 0.00   | 25.00      | 27.22     | 7.50 | 44.54     | 56.32      | 17.71    | 32.08       | 4.93     | 7.30   | 6.50   | 0.03  | 0.00  | 0.00   |                                                        |
| 9/11/2024 | Average | 20.25  | 0.00    | 0.00   | 24.67      | 26.55     | 7.43 | 42.52     | 52.22      | 9.70     | 28.66       | 4.67     | 7.30   | 6.50   | 0.01  | 0.00  | 0.00   | Off                                                    |
|           | Min     | 20.07  | 0.00    | 0.00   | 23.89      | 25.00     | 7.30 | 35.18     | 44.44      | 2.47     | 26.06       | 4.60     | 7.30   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.41  | 0.00    | 0.00   | 25.55      | 27.78     | 7.60 | 49.91     | 56.32      | 15.21    | 32.93       | 4.70     | 7.30   | 6.50   | 0.02  | 0.00  | 0.00   |                                                        |
| 9/12/2024 | Average | 16.98  | 4.37    | 11.46  | 170.13     | 355.83    | 7.37 | 38.37     | 43.36      | 4.99     | 30.50       | 5.74     | 7.72   | 6.58   | 14.24 | 0.00  | 0.57   | Off/Preheat/Normal(ON)                                 |
|           | Min     | 9.55   | 0.00    | -2.72  | 25.02      | 23.88     | 6.57 | 20.37     | 30.36      | -1.04    | 23.96       | 4.66     | 7.30   | 6.50   | 0.00  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.41  | 418.54  | 129.64 | 647.41     | 1069.24   | 7.61 | 51.33     | 61.27      | 16.89    | 55.10       | 8.64     | 9.61   | 7.00   | 40.28 | 0.00  | 2.00   |                                                        |
| 9/13/2024 | Average | 13.21  | 3.90    | 36.03  | 664.65     | 965.15    | 7.35 | 49.01     | 55.12      | 6.12     | 47.24       | 8.88     | 8.27   | 6.56   | 33.40 | 0.00  | 1.17   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON)             |
|           | Min     | 7.88   | 0.00    | -2.20  | 491.51     | 297.02    | 6.79 | 40.67     | 29.00      | -30.77   | 26.66       | 7.48     | 7.90   | 6.50   | 0.08  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.37  | 163.01  | 160.82 | 758.05     | 1092.50   | 7.99 | 59.78     | 61.75      | 15.58    | 55.98       | 9.81     | 8.76   | 6.61   | 40.39 | 0.00  | 2.00   |                                                        |
| 9/14/2024 | Average | 12.27  | 4.73    | 33.86  | 783.00     | 1063.65   | 7.27 | 46.80     | 59.27      | 12.47    | 50.22       | 9.68     | 8.64   | 6.60   | 39.65 | 0.00  | 1.17   | Normal(ON)                                             |
|           | Min     | 10.60  | 3.27    | -0.30  | 721.35     | 1028.09   | 6.91 | 39.49     | 55.85      | 10.22    | 45.76       | 8.35     | 8.13   | 6.56   | 39.32 | 0.00  | 1.00   |                                                        |
|           | Max     | 14.20  | 21.84   | 144.72 | 817.64     | 1122.59   | 7.58 | 51.39     | 61.62      | 16.36    | 53.37       | 10.28    | 9.08   | 6.60   | 40.90 | 0.00  | 2.00   |                                                        |
| 9/15/2024 | Average | 12.39  | 4.66    | 32.31  | 857.88     | 1059.20   | 7.00 | 43.19     | 55.05      | 11.86    | 47.15       | 9.93     | 8.70   | 6.60   | 40.70 | 0.00  | 1.52   | Normal(ON)                                             |
|           | Min     | 9.55   | 3.29    | -0.21  | 705.65     | 1016.13   | 6.57 | 37.97     | 52.86      | 9.38     | 44.65       | 9.57     | 8.50   | 6.55   | 40.57 | 0.00  | 1.00   |                                                        |
|           | Max     | 14.48  | 10.39   | 96.79  | 929.71     | 1080.84   | 7.37 | 47.70     | 57.47      | 17.45    | 50.32       | 10.25    | 9.13   | 6.60   | 40.85 | 0.00  | 2.00   |                                                        |
| 9/16/2024 | Average | 12.77  | 5.22    | 48.29  | 833.30     | 1065.43   | 6.86 | 37.65     | 52.87      | 15.22    | 43.47       | 9.76     | 8.43   | 6.60   | 40.95 | 0.00  | 2.41   | Normal(ON)                                             |
|           | Min     | 10.78  | 3.46    | -1.12  | 703.25     | 1005.27   | 6.53 | 32.83     | 48.90      | 10.42    | 39.51       | 9.21     | 7.94   | 6.55   | 40.60 | 0.00  | 2.00   |                                                        |
|           | Max     | 14.62  | 21.16   | 224.63 | 925.88     | 1089.20   | 7.11 | 42.43     | 56.11      | 20.22    | 46.11       | 10.49    | 9.10   | 6.70   | 41.21 | 0.00  | 4.00   |                                                        |
| 9/17/2024 | Average | 13.00  | 6.02    | 43.77  | 852.56     | 1043.57   | 6.68 | 37.73     | 52.67      | 14.94    | 43.38       | 9.51     | 8.37   | 6.59   | 38.80 | 0.01  | 2.89   | Normal(ON)/Shutdown/Off                                |
|           | Min     | 9.85   | 0.00    | -0.11  | 682.13     | 494.67    | 6.43 | 32.46     | 48.97      | -2.03    | 39.83       | 8.76     | 7.63   | 6.54   | 13.87 | 0.00  | 1.00   |                                                        |
|           | Max     | 20.37  | 1016.11 | 160.97 | 977.52     | 1115.56   | 7.08 | 52.95     | 55.67      | 18.19    | 47.81       | 10.50    | 9.08   | 6.62   | 41.32 | 0.10  | 4.00   |                                                        |
| 9/18/2024 | Average | 13.41  | 7.82    | 41.74  | 750.04     | 991.64    | 6.76 | 40.27     | 49.91      | 9.64     | 40.64       | 9.43     | 8.58   | 6.57   | 33.57 | 0.00  | 2.77   | Off/Preheat/Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 9.62   | 0.00    | -0.25  | 540.64     | 435.19    | 6.22 | 31.68     | 33.57      | -28.75   | 30.91       | 8.00     | 7.65   | 6.50   | 2.82  | 0.00  | 0.00   |                                                        |
|           | Max     | 20.37  | 2400.30 | 157.87 | 856.66     | 1127.34   | 7.70 | 62.38     | 55.02      | 21.30    | 46.75       | 10.30    | 9.13   | 6.61   | 40.04 | 0.00  | 8.00   |                                                        |



## September 2024 Incineration Averages and Ranges

| TheDate   |         | OX6min | COmin  | NOXmin | PrimTemp°C | SecTemp°C | SNCR | DemTemp°C | CarbTemp°C | DiffTemp | IDFanTemp°C | QuenchPH | CondPH | AtomPH | AtomA | AtomB | HEPADP | OpMode                                     |
|-----------|---------|--------|--------|--------|------------|-----------|------|-----------|------------|----------|-------------|----------|--------|--------|-------|-------|--------|--------------------------------------------|
| 9/19/2024 | Average | 12.36  | 5.62   | 36.45  | 837.65     | 1063.43   | 6.85 | 38.63     | 53.09      | 14.46    | 43.57       | 9.47     | 8.63   | 6.56   | 40.25 | 0.00  | 1.53   | Normal(ON)                                 |
|           | Min     | 10.61  | 3.64   | -0.32  | 776.38     | 1025.58   | 6.41 | 32.05     | 48.54      | 12.13    | 39.67       | 8.87     | 8.33   | 6.51   | 39.01 | 0.00  | 1.00   |                                            |
|           | Max     | 13.66  | 38.90  | 130.04 | 928.49     | 1088.07   | 7.28 | 42.83     | 55.83      | 20.13    | 46.81       | 9.87     | 9.01   | 6.60   | 41.54 | 0.00  | 3.00   |                                            |
| 9/20/2024 | Average | 13.33  | 5.39   | 29.29  | 858.23     | 1032.29   | 6.87 | 40.41     | 52.49      | 12.08    | 41.87       | 8.85     | 9.03   | 6.55   | 37.61 | 0.00  | 3.38   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 9.37   | 0.00   | -1.10  | 667.64     | 567.36    | 6.36 | 35.43     | 37.22      | -19.96   | 31.78       | 6.90     | 8.10   | 6.50   | 10.36 | 0.00  | 0.00   |                                            |
|           | Max     | 20.37  | 166.49 | 111.87 | 964.40     | 1116.93   | 7.65 | 57.73     | 57.26      | 19.37    | 45.93       | 9.70     | 9.64   | 6.61   | 41.67 | 0.00  | 7.00   |                                            |
| 9/21/2024 | Average | 12.54  | 5.90   | 32.02  | 901.77     | 1062.74   | 7.26 | 44.20     | 58.28      | 14.08    | 47.16       | 8.22     | 8.52   | 6.56   | 40.69 | 0.00  | 1.00   | Normal(ON)                                 |
|           | Min     | 10.69  | 3.87   | -0.33  | 801.97     | 1013.07   | 6.99 | 40.05     | 53.25      | 11.08    | 45.31       | 7.17     | 7.74   | 6.50   | 39.33 | 0.00  | 1.00   |                                            |
|           | Max     | 14.57  | 119.58 | 173.55 | 948.67     | 1128.23   | 7.57 | 47.13     | 60.75      | 18.17    | 49.38       | 8.90     | 8.97   | 6.64   | 42.04 | 0.00  | 1.00   |                                            |
| 9/22/2024 | Average | 12.63  | 7.40   | 37.36  | 909.62     | 1065.22   | 7.22 | 42.80     | 58.77      | 15.97    | 46.52       | 8.13     | 8.44   | 6.53   | 41.49 | 0.00  | 1.83   | Normal(ON)                                 |
|           | Min     | 11.26  | 4.05   | 3.95   | 844.41     | 999.49    | 6.76 | 38.76     | 56.51      | 13.28    | 44.30       | 7.61     | 8.01   | 6.50   | 40.32 | 0.00  | 1.00   |                                            |
|           | Max     | 14.51  | 607.81 | 117.27 | 977.04     | 1119.90   | 7.49 | 48.31     | 61.75      | 17.93    | 48.93       | 9.09     | 8.87   | 6.60   | 42.34 | 0.00  | 3.00   |                                            |
| 9/23/2024 | Average | 12.94  | 11.76  | 35.93  | 845.76     | 974.69    | 7.22 | 46.15     | 54.40      | 8.26     | 43.80       | 8.11     | 8.29   | 6.52   | 35.70 | 0.00  | 1.57   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 8.00   | 0.00   | 0.00   | 632.76     | 438.22    | 6.80 | 28.89     | 33.16      | -29.65   | 23.70       | 6.76     | 7.53   | 6.50   | 1.48  | 0.00  | 0.00   |                                            |
|           | Max     | 20.37  | 528.38 | 148.28 | 1045.74    | 1102.04   | 7.54 | 62.84     | 60.02      | 23.89    | 51.12       | 9.26     | 8.75   | 6.58   | 41.23 | 0.00  | 4.00   |                                            |
| 9/24/2024 | Average | 11.67  | 5.80   | 30.72  | 880.00     | 1062.44   | 7.03 | 44.96     | 59.43      | 14.47    | 48.63       | 7.73     | 8.69   | 6.56   | 40.62 | 0.00  | 1.00   | Normal(ON)                                 |
|           | Min     | 9.97   | 0.00   | 8.32   | 825.74     | 1022.18   | 6.92 | 42.51     | 57.48      | 12.06    | 47.15       | 7.55     | 8.41   | 6.50   | 38.62 | 0.00  | 1.00   |                                            |
|           | Max     | 13.81  | 186.78 | 102.44 | 908.80     | 1107.54   | 7.11 | 48.97     | 61.35      | 16.38    | 50.94       | 8.39     | 9.14   | 6.80   | 41.11 | 0.00  | 1.00   |                                            |
| 9/25/2024 | Average | 12.05  | 6.09   | 30.30  | 851.98     | 1045.10   | 7.25 | 46.16     | 58.62      | 12.46    | 48.34       | 7.76     | 8.61   | 6.64   | 39.71 | 0.00  | 1.00   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 8.50   | 0.00   | 0.00   | 765.19     | 578.70    | 6.92 | 40.00     | 53.70      | 8.77     | 43.33       | 7.27     | 7.96   | 6.50   | 29.29 | 0.00  | 1.00   |                                            |
|           | Max     | 20.37  | 371.87 | 165.38 | 945.84     | 1138.54   | 7.63 | 51.47     | 61.83      | 17.06    | 51.66       | 8.76     | 9.34   | 6.80   | 43.04 | 0.00  | 1.00   |                                            |
| 9/26/2024 | Average | 11.95  | 9.88   | 31.56  | 861.00     | 1066.27   | 6.79 | 41.44     | 56.77      | 15.32    | 46.57       | 7.45     | 8.05   | 6.51   | 41.79 | 0.00  | 1.10   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 9.09   | 0.00   | 0.00   | 704.79     | 975.97    | 6.49 | 28.90     | 53.06      | 11.21    | 39.49       | 6.80     | 7.10   | 6.50   | 38.62 | 0.00  | 1.00   |                                            |
|           | Max     | 17.37  | 811.47 | 165.11 | 926.38     | 1114.27   | 7.14 | 47.50     | 59.73      | 24.64    | 49.53       | 7.82     | 8.79   | 6.54   | 43.88 | 0.00  | 2.00   |                                            |
| 9/27/2024 | Average | 12.18  | 8.06   | 35.77  | 902.48     | 1058.21   | 6.63 | 42.53     | 56.41      | 13.88    | 46.92       | 7.51     | 8.41   | 6.50   | 40.95 | 0.00  | 2.05   | Normal(ON)/Shutdown/Off/Preheat/Normal(ON) |
|           | Min     | 10.31  | 0.00   | 0.00   | 856.43     | 799.56    | 6.31 | 32.86     | 51.23      | 10.00    | 35.93       | 7.07     | 7.53   | 6.50   | 30.67 | 0.00  | 1.00   |                                            |
|           | Max     | 20.35  | 719.97 | 122.90 | 978.43     | 1122.40   | 6.93 | 48.30     | 58.91      | 18.41    | 50.00       | 8.40     | 9.97   | 6.52   | 41.76 | 0.00  | 3.00   |                                            |
| 9/28/2024 | Average | 12.25  | 7.12   | 35.44  | 922.49     | 1060.64   | 6.88 | 41.14     | 54.87      | 13.74    | 45.44       | 8.55     | 8.43   | 6.50   | 40.49 | 0.00  | 2.19   | Normal(ON)/Shutdown/Off/Preheat            |
|           | Min     | 9.54   | 0.00   | 0.00   | 741.10     | 647.39    | 6.58 | 30.56     | 52.25      | 8.64     | 41.58       | 7.40     | 7.68   | 6.40   | 33.41 | 0.00  | 1.00   |                                            |
|           | Max     | 20.37  | 491.81 | 128.22 | 993.39     | 1144.46   | 7.19 | 45.18     | 56.61      | 22.22    | 48.23       | 10.10    | 9.09   | 6.54   | 41.84 | 0.00  | 3.00   |                                            |
| 9/29/2024 | Average | 14.66  | 4.09   | 19.96  | 800.99     | 840.96    | 7.19 | 42.94     | 49.98      | 7.03     | 41.41       | 8.58     | 8.71   | 6.38   | 29.92 | 0.00  | 1.79   | Preheat/Normal(ON)/Shutdown/Off            |
|           | Min     | 10.43  | 0.00   | 0.00   | 438.14     | 231.29    | 6.76 | 28.90     | 29.55      | -34.45   | 25.54       | 6.62     | 7.87   | 6.30   | 0.10  | 0.00  | 0.00   |                                            |
|           | Max     | 20.39  | 22.35  | 81.09  | 930.08     | 1106.78   | 7.96 | 69.23     | 56.05      | 21.95    | 47.68       | 10.04    | 9.60   | 6.40   | 40.42 | 0.00  | 3.00   |                                            |
| 9/30/2024 | Average | 19.96  | 0.00   | 3.10   | 225.24     | 115.84    | 7.38 | 25.60     | 26.64      | 1.04     | 24.47       | 7.53     | 9.63   | 6.31   | 0.07  | 0.00  | 0.00   | Off                                        |
|           | Min     | 11.50  | 0.00   | 0.00   | 90.61      | 47.28     | 7.19 | 23.89     | 25.00      | 0.67     | 21.11       | 6.64     | 9.60   | 6.30   | 0.00  | 0.00  | 0.00   |                                            |
|           | Max     | 20.41  | 0.00   | 95.00  | 437.63     | 231.00    | 7.80 | 28.87     | 29.54      | 1.17     | 25.94       | 8.00     | 9.70   | 6.40   | 0.10  | 0.00  | 0.00   |                                            |



**163204.90**



# Carbon Monoxide > 8ppm 12 hour alarm



## Carbon Monoxide > 8ppm 12 hour alarm

|           | Start | Stop |          | Op.      | Stack CO | Stack CO             |                                                                             | Actions                                                                                                                                         |
|-----------|-------|------|----------|----------|----------|----------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time | Duration | Mode     | @ 11% O2 | as mg/m <sup>3</sup> | Explanation                                                                 | Taken                                                                                                                                           |
| 9/23/2024 | 16:00 | 6:00 | 14:00    | Shutdown | 16.8     | 19.4                 | Hi CO levels were caused due a malfunction of the secondary chamber burner. | The incinerator was brought to a controlled shutdown to allow for repairs to the secondary chamber burner. No waste was fed during this period. |

# Carbon Monoxide > 8ppm 4 hour alarm



## Carbon Monoxide > 8ppm 4 hour alarm

|           | Start | Stop  |          | Op.      | Stack CO             | Stack CO             |                                                                              | Actions                                                                                                          |
|-----------|-------|-------|----------|----------|----------------------|----------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Date      | Time  | Time  | Duration | Mode     | @ 11% O <sub>2</sub> | as mg/m <sup>3</sup> | Explanation                                                                  | Taken                                                                                                            |
| 9/17/2024 | 19:30 | 22:00 | 02:30    | Shutdown | 17.9                 | 20.7                 | CO spike occurred during the cycling of the internal rams.                   | No waste was fed at this time. The incinerator was brought to a controlled shutdown                              |
| 9/18/2024 | 19:00 | 23:00 | 04:00    | Normal   | 12.3                 | 14.2                 | CO spike occurred during the cycling of the internal rams.                   | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |
| 9/23/2024 | 06:00 | 8:00  | 02:00    | Shutdown | 13.8                 | 15.9                 | CO spike occurred during the cycling of the internal rams.                   | No waste was fed at this time. The incinerator was brought to a controlled shutdown                              |
| 9/23/2024 | 17:00 | 18:00 | 01:00    | Shutdown | 44.6                 | 51.5                 | High CO levels were caused by a malfunction of the secondary chamber burner. | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |
| 9/26/2024 | 02:00 | 4:00  | 02:00    | Normal   | 15.4                 | 17.8                 | CO spike occurred during the cycling of the internal rams.                   | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |
| 9/26/2024 | 11:00 | 16:00 | 05:00    | Normal   | 13.4                 | 15.5                 | High CO levels were caused by a malfunction of the secondary chamber burner. | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |
| 9/28/2024 | 15:00 | 19:00 | 04:00    | Normal   | 11.6                 | 13.4                 | CO spike occurred during the cycling of the internal rams.                   | The operator monitored the CO level. No waste was fed until the CO level returned to the normal operating range. |

## Secondary Chamber Temperature < 1000°C

| Date      | Start Time | Stop Time | Duration | Op. Mode | Temp. °C | Explanation                                                                                      | Actions Taken                                                                                                                             |
|-----------|------------|-----------|----------|----------|----------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 9/1/2024  | 1:32       | 2:30      | 00:58    | Shutdown | 990      | Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown. | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                                      |
| 9/1/2024  | 2:49       | 4:11      | 01:22    | Shutdown | 980      | Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown. | No waste was fed at this time. The incinerator was brought to a controlled shutdown.                                                      |
| 9/23/2024 | 15:48      | 17:01     | 01:13    | Shutdown | 747      | Low upper chamber temperatures were the result of a failure of the secondary chamber burner.     | No waste was fed at this time. The incinerator was brought to a controlled shutdown to allow for repairs to the secondary chamber burner. |