

Stericycle®

**2024 Q2
INCINERATION
REPORT**

July 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 second quarter of 2024.

During April 2024 there was 1 occurrence of the 4-hour CO alarm & 0 occurrences of the 12-hour CO alarm. In May 2024 there were 4 occurrences of the 4-hour CO alarm and 0 occurrences of the 12-hour CO alarm. In June 2024 there were 2 occurrences of the 4-hour CO alarm and 0 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 Q2 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.

In May of 2024 the annual source test was completed by RWDI at the Stericycle incineration facility.

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

SECOND QUARTER 2024 INCINERATOR QUARTERLY REPORT - SUPPLEMENTAL INFORMATION

- The Emergency Bypass stack was used once during Q2 2024. Details of the stack opening can be found in the sections below.
- 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 second 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 Inc. operated the incinerator on the following days during the second quarter:

Start-up		Shutdown	
Date	Time	Date	Time
4/1/2024	12:17	4/2/2024	07:00
4/2/2024	18:29	4/3/2024	20:26
4/4/2024	01:21	4/4/2024	19:47
4/4/2024	23:48	4/5/2024	20:27
4/6/2024	00:53	4/6/2024	11:58
4/6/2024	17:37	4/7/2024	18:16
4/7/2024	22:25	4/8/2024	12:03
4/9/2024	12:26	4/10/2024	15:58
4/11/2024	05:31	4/11/2024	13:25
4/11/2024	19:32	4/12/2024	17:14
4/12/2024	23:22	4/13/2024	18:12
4/13/2024	23:41	4/14/2024	21:19
4/15/2024	01:38	4/15/2024	21:15
4/16/2024	01:37	4/16/2024	20:45
4/17/2024	00:53	4/17/2024	20:12
4/18/2024	00:21	4/18/2024	19:45
4/19/2024	02:17	4/19/2024	04:29
4/19/2024	08:49	4/20/2024	23:06
4/23/2024	12:30	4/23/2024	21:47
4/24/2024	04:26	4/25/2024	21:25
4/26/2024	03:11	4/26/2024	21:00
4/27/2024	01:07	4/27/2024	04:07

Start-up		Shutdown	
Date	Time	Date	Time
		1-Jun	23:04
4-Jun	19:23	5-Jun	09:29
5-Jun	16:22	6-Jun	18:28
6-Jun	22:40	7-Jun	20:01
8-Jun	00:12	8-Jun	20:29
9-Jun	00:47	9-Jun	17:13
10-Jun	05:58	11-Jun	19:25
14-Jun	14:11	15-Jun	07:56
15-Jun	12:17	17-Jun	11:11
18-Jun	13:51	19-Jun	13:48
20-Jun	00:21	20-Jun	07:59
20-Jun	13:59	21-Jun	09:42
21-Jun	14:13	22-Jun	10:01
26-Jun	17:05	27-Jun	02:37
27-Jun	05:40	28-Jun	18:22
29-Jun	02:07	30-Jun	17:44
30-Jun	22:15		

Start-up		Shutdown	
Date	Time	Date	Time
1-May	10:15	2-May	14:06
2-May	20:57	3-May	08:22
4-May	22:01	5-May	19:24
5-May	23:31	6-May	19:30
6-May	23:35	7-May	19:28
7-May	23:49	8-May	19:29
8-May	23:41	9-May	19:35
9-May	23:53	10-May	04:56
11-May	01:15	11-May	11:18
11-May	16:48	12-May	19:23
12-May	23:41	13-May	20:43
14-May	01:00	15-May	17:51
15-May	21:57	16-May	22:12
17-May	02:30	17-May	09:47
21-May	04:55	22-May	19:26
23-May	00:43	23-May	19:23
23-May	23:28	24-May	03:35
24-May	12:03	25-May	19:18
25-May	23:33	26-May	02:51
26-May	06:52	27-May	05:50
28-May	04:43	28-May	17:06
28-May	22:48	29-May	14:38
29-May	21:02	30-May	18:41
30-May	22:53	31-May	19:23
31-May	23:29		

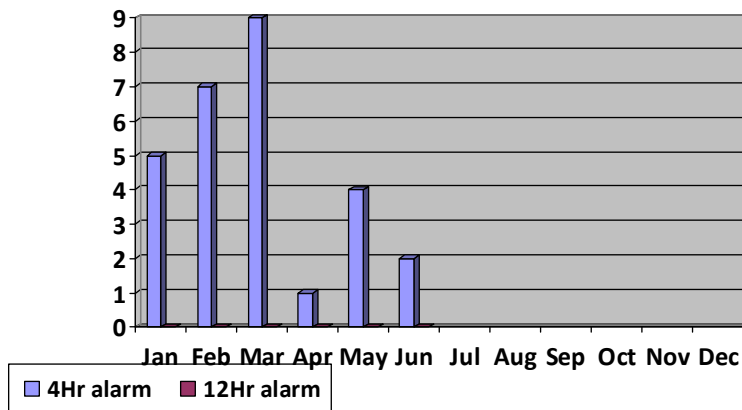
During Q2 of 2024 routine maintenance was performed on the incinerator during the scheduled shutdowns .

Emergency Bypass Stack Usage

Date	Start Time	End Time	Duration	Emission Volume (m ³)	Reason	Corrective Action
5/26/2024	2:37:00	3:37:00	1:00:00	218.75	Preliminary investigations reveal that air compressor ratings dropped to 43psi and 54psi respectively. Several attempts were made to get the stack cap to close but were initially unsuccessful. We pushed the shutdown button to initiate the burndown period and a call was placed to Spills Action Centre with reference number 1-712M58.	Upon further investigation at the roof, it was discovered that the 1-inch air hose connected to the stack cap cylinder (close position) got disconnected which led to a massive and continuous loss of air pressure over a period of time. The air hose was reconnected with double clamps and the stack cap was closed by 3:37 am, we continued with and completed the burndown period by 7:00 am

CO Alarm Chart Q2 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		
August		
September		
October		
November		
December		



2023 CO alarms vs. 2024 CO alarms

	2023		2024	
Month	4 Hr. Alarm	12 Hr. Alarm	4 Hr. Alarm	12 Hr. Alarm
January	5	0	5	0
February	11	0	7	0
March	20	4	9	0
April	20	1	1	0
May	16	1	4	0
June	15	0	2	0
July	6	0		
August	0	0		
September	9	3		
October	2	0		
November	7	1		
December	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 Q2 of 2024.

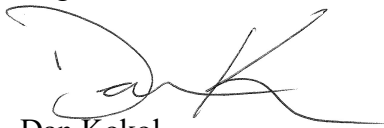
Stericycle is very committed to the full compliance with all conditions of its Provisional Certificate of Approval, throughout the year, whenever a situation of possible non-compliance was identified; immediate actions were taken to ensure full compliance. Stericycle has mechanisms in place to always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

A handwritten signature in black ink, appearing to read 'Dan Kokol', with a stylized flourish extending from the end.

Dan Kokol
Operational EHS Manager
Phone: 905-595-8532
Email: dkokol@stericycle.com



June 3, 2024

Christelle Broux Senior Environmental Officer
Ministry of Environment, Conservation and Parks
Halton-Peel District Office
4145 North Service Road, Suite 300
Burlington, Ontario
L7L 6A3

Dear Christelle Broux,

RE: Stericycle Site Certificate of Approval No. A680324
Use of the Emergency Bypass Stack
Ref #: 1-712M58

On May 26, 2024 at approximately 02:37 the emergency bypass stack cap was opened due to a loss of air pressure to the solenoid that controls the stack cap.

As required by conditions 36 and 38(1) (b) & (2) of the above referenced ECA, the incinerator was brought into a controlled shutdown during this time. The emergency bypass stack was open for a duration of one (1) hour. During this period, no waste was injected into the incinerator and the upper chamber was maintained at 1000°C by natural gas only.

On May 26, 2024 a call was placed to the Spills Action Control center by Stericycle Operations to report the use of the emergency bypass stack. At approximately 12:04 the emergency bypass stack opened due to a loss of air pressure to the solenoid that controls the stack cap. Preliminary investigations revealed that air compressor ratings dropped to 43psi and 54psi respectively. Several attempts were made to get the stack cap to close but were initially unsuccessful. A controlled shutdown was initiated and a call was placed to Spills Action Centre with reference number 1-712M58. Upon further investigation on the roof, it was discovered that the 1-inch air hose connected to the stack cap cylinder (close position) became disconnected which led to a massive and continuous loss of air pressure over a period of time. The air hose was reconnected with double clamps and the stack cap was closed by 3:37 am. The site continued with and completed the burndown period by 7:00 am

During the period stack cap was open the ID fan, atomizer, quench, and the rest of the APC were online and functioning, the secondary temperature remained at around 1950 degrees with no CO spikes, and the draft was at -0.23.

Operations and Maintenance verified the data and parameters and called back Spills Action Centre to inform them that the situation was resolved and there was no emission as all APC systems were online and retained optimal operating parameters.

If you require any additional information, please do not hesitate to call me directly at (905) 595-8532.

Yours truly,

Dan Kokol

Operational EHS Manager
Stericycle ULC
905-595-8532
dkokol@stericycle.com

Kokol, Dan

From: Broux, Christelle (MECP) <Christelle.Broux@ontario.ca>
Sent: Monday, June 3, 2024 16:39
To: Kokol, Dan
Cc: Onyeka, Emeka
Subject: RE: Bypass Stack-cap use follow-up - ref no. 1-712M58

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Good afternoon Dan,

I've received your report and noted no exceedances from this incident. I've added it to the file and will proceed to close this off.

Thank you,

Christelle Broux

Senior Environmental Officer (P.O. #1896)

Halton Peel District Office | Ministry of Environment, Conservation and Parks (MECP)
4145 North Service Rd, Suite 300 | Burlington, ON | L7L 6A3
christelle.broux@ontario.ca | **289-208-5057**

Spills/After-Hours: 1-800-268-6060

Ontario

From: Kokol, Dan <DKokol@STERICYCLE.com>
Sent: Monday, June 3, 2024 2:08 PM
To: Broux, Christelle (MECP) <Christelle.Broux@ontario.ca>
Cc: Onyeka, Emeka <Emeka.Onyeka@STERICYCLE.com>
Subject: Bypass Stack-cap use follow-up - ref no. 1-712M58

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Good afternoon Christelle,

Attached is the follow-up letter for the reported opening of the emergency bypass stack cap that occurred on May 26th 2024. As noted in the attached letter and the report to SAC, the Air Pollution Control system remained operational during the event, thus due to the negative draft created by the system, emissions did not exit the bypass stack.

Those who rise highest lift along the way

Dan Kokol

Manager Operational EHS

O: +1 905-595-8532 | M: +1 416-702-5470 | stericycle.ca | shredit.ca [Stericycle's 10 Critical Safety Rules](#)

95 Deerhurst Dr, Brampton, ON L6T 5R7

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April 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
4/1/2024	Average	17.46	0.06	13.69	314.08	494.95	6.50	21.33	29.39	8.06	19.65	7.61	7.75	6.82	10.96	0.00	0.51	Off/Preheat/Normal(ON)
	Min	8.28	0.00	-7.70	122.80	71.11	5.00	17.41	20.67	0.56	10.70	7.47	6.78	6.80	0.10	0.00	0.00	
	Max	20.42	39.26	88.82	807.76	1065.92	7.10	32.23	52.94	34.19	43.60	8.19	8.24	6.90	39.68	0.00	3.00	
4/2/2024	Average	15.64	212.60	34.26	691.41	889.73	5.25	31.52	45.38	13.86	32.58	9.63	7.79	6.82	26.94	0.00	1.83	Normal(ON)/Shutdown/Off/Preheat
	Min	8.36	0.00	-0.43	419.78	297.67	4.99	16.79	24.63	-32.93	13.78	7.52	7.28	6.80	0.10	0.00	0.00	
	Max	20.37	4395.60	128.09	960.76	1082.70	5.80	74.94	53.12	33.43	43.77	12.46	8.32	6.90	41.60	0.00	4.00	
4/3/2024	Average	12.64	2.48	52.30	878.02	1054.14	5.50	34.60	52.41	17.81	41.63	8.15	7.41	6.87	38.74	0.00	4.14	Preheat/Normal(ON)/Shutdown
	Min	8.67	0.00	0.05	566.36	1001.92	5.01	23.24	43.21	-20.26	24.65	7.22	7.24	6.80	13.98	0.00	1.00	
	Max	14.90	1208.89	431.57	1001.24	1083.33	5.70	63.47	54.46	24.86	45.30	9.48	7.78	6.93	40.63	0.00	7.00	
4/4/2024	Average	13.14	2.32	49.64	915.55	1044.68	5.06	29.83	50.25	20.41	36.39	8.22	7.37	6.87	38.18	0.00	2.46	Shutdown/Off/Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	9.49	0.00	-7.02	750.59	524.94	5.00	25.73	46.55	11.94	29.43	6.40	7.05	6.80	29.84	0.00	1.00	
	Max	20.37	653.36	261.87	974.57	1085.47	5.17	34.64	51.95	24.57	38.46	9.40	8.06	6.93	40.64	0.00	4.00	
4/5/2024	Average	13.25	0.16	59.69	935.54	1055.18	5.05	31.87	52.17	20.30	41.27	8.89	7.64	6.87	38.99	0.00	3.86	Preheat/Normal(ON)/Shutdown
	Min	10.70	0.00	16.78	766.58	975.56	5.00	23.69	49.83	14.59	37.11	8.23	7.18	6.80	38.06	0.00	2.00	
	Max	15.70	23.79	208.44	995.94	1150.24	5.16	37.80	53.97	26.78	44.21	9.71	8.10	6.95	39.25	0.00	5.00	
4/6/2024	Average	13.99	0.30	38.96	873.51	1018.35	5.17	28.53	49.18	20.65	36.77	8.97	7.79	6.90	35.20	0.00	3.35	Shutdown/Off/Preheat/Normal(ON)/Shutdown/Off/Preheat/Normal(ON)
	Min	9.57	0.00	-4.15	669.72	546.46	5.02	20.94	32.58	4.85	23.81	7.71	7.01	6.82	8.72	0.00	0.00	
	Max	20.37	50.93	149.28	992.72	1119.84	5.54	35.16	53.36	29.24	42.01	10.87	8.15	6.95	40.65	0.00	6.00	
4/7/2024	Average	13.31	3.76	37.53	923.71	1061.41	5.25	28.56	52.15	23.59	35.95	7.78	7.48	6.84	40.08	0.00	1.10	Normal(ON)/Shutdown/Off/Preheat
	Min	11.05	0.00	-12.10	811.28	863.66	5.00	15.21	50.44	20.32	33.24	7.25	7.03	6.80	39.63	0.00	0.00	
	Max	20.31	88.00	146.00	999.03	1097.17	5.69	33.34	54.05	37.22	39.01	8.85	8.34	6.90	40.42	0.00	2.00	
4/8/2024	Average	15.50	0.90	33.63	780.14	841.49	5.38	38.50	46.86	8.36	33.95	8.22	7.62	6.88	30.18	0.00	1.33	Preheat/Normal(ON)/Shutdown/Off
	Min	10.53	0.00	-11.00	429.00	255.01	5.00	14.88	24.89	-42.63	17.34	7.39	7.21	6.80	0.10	0.00	0.00	
	Max	20.41	281.67	94.97	955.89	1099.09	6.49	73.45	53.90	37.70	43.44	9.01	8.45	6.90	40.36	0.00	3.00	
4/9/2024	Average	20.25	0.00	0.00	243.18	137.71	6.88	43.70	21.86	-21.85	19.70	8.80	7.74	6.84	0.10	0.00	0.00	Off/Preheat
	Min	20.07	0.00	0.00	142.52	74.49	6.49	20.09	19.12	-45.06	18.16	8.70	7.70	6.80	0.08	0.00	0.00	
	Max	20.42	0.00	0.00	428.53	263.88	7.00	67.45	24.88	0.58	21.22	8.90	7.80	6.90	0.10	0.00	0.00	
4/10/2024	Average	20.25	0.00	0.00	103.05	57.41	7.05	22.28	23.22	0.94	21.16	8.70	7.70	6.80	0.10	0.00	0.00	Preheat/Shutdown/Off
	Min	20.10	0.00	0.00	76.09	47.78	7.00	21.22	22.11	0.58	20.03	8.70	7.70	6.80	0.09	0.00	0.00	
	Max	20.40	0.00	0.00	142.44	74.46	7.10	23.39	24.46	1.14	22.42	8.70	7.70	6.80	0.10	0.00	0.00	
4/11/2024	Average	17.58	0.00	12.97	387.84	673.27	6.56	24.34	29.02	4.68	23.15	8.91	7.54	6.78	15.36	0.00	0.10	Off/Preheat/Shutdown/Off/Preheat
	Min	9.19	0.00	0.00	68.04	39.99	5.00	12.78	16.11	-0.19	11.56	7.70	6.59	6.70	0.07	0.00	0.00	
	Max	20.40	0.00	134.86	707.93	1065.48	7.10	34.47	49.36	15.93	37.27	11.93	8.27	6.80	39.54	0.00	1.00	
4/12/2024	Average	13.19	4.10	38.76	744.85	1009.19	5.90	29.88	50.02	20.14	35.36	8.08	7.37	6.75	37.48	0.00	0.47	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	8.86	0.00	-14.30	533.70	342.20	5.14	20.99	25.71	3.92	22.47	7.17	7.17	6.70	8.87	0.00	0.00	
	Max	20.37	154.00	389.38	885.99	1104.82	6.44	37.32	55.23	28.07	40.91	11.87	8.45	6.80	40.21	0.00	1.00	
4/13/2024	Average	13.67	2.13	44.59	818.33	1027.31	5.24	31.16	51.56	20.40	36.75	8.24	7.50	6.82	38.17	0.00	0.86	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	10.08	0.00	-12.10	650.15	416.48	5.09	24.90	40.65	-1.04	25.58	7.44	7.22	6.71	20.12	0.00	0.00	
	Max	20.37	154.00	101.48	916.26	1084.52	5.50	50.29	55.14	25.45	40.78	10.75	8.49	6.90	40.74	0.00	1.00	
4/14/2024	Average	13.32	2.69	43.59	892.62	1053.63	5.75	33.15	52.21	19.06	38.56	7.85	7.25	6.67	38.85	0.00	0.92	Preheat/Normal(ON)/Shutdown
	Min	1.87	0.00	-12.10	80.96	108.89	0.61	-13.31	-9.44	-0.91	-11.24	1.07	0.91	0.83	4.84	0.00	0.00	
	Max	20.00	636.96	108.68	966.15	1104.89	6.32	50.27	56.67	28.31	42.78	10.12	7.86	6.90	41.30	0.00	1.00	
4/15/2024	Average	13.58	1.19	44.10	936.91	1064.17	5.58	31.32	53.48	22.16	40.21	8.17	7.55	6.80	39.52	0.00	0.90	Preheat/Normal(ON)/Shutdown
	Min	11.73	0.00	-3.34	792.08	753.64	5.14	17.59	51.11	17.31	34.65	7.67	7.17	6.72	39.32	0.00	0.00	
	Max	20.36	636.40	179.72	1002.38	1166.24	5.84	35.31	54.82	34.03	42.58	8.70	8.35	6.90	39.93	0.00	1.00	
4/16/2024	Average	13.81	1.76	55.27	971.08	1060.69	5.49	32.43	53.23	20.81	40.56	7.43	7.41	6.72	39.31	0.00	1.00	Shutdown/Off/Preheat/Normal(ON)/Shutdown
	Min	11.29	0.00	-6.60	899.71	755.91	5.13	26.73	50.81	15.74	37.75	7.24	7.02	6.70	39.03	0.00	1.00	
	Max	20.36	110.00	192.27	1028.13	1112.43	5.88	37.22	55.12	26.98	42.82	8.48	8.24	6.80	39.58	0.00	1.00	
4/17/2024	Average	13.67	0.24	40.59	919.96	1058.91	5.49	32.61	52.96	20.35	39.55	7.57	7.56	6.73	39.39	0.00	1.00	Shutdown/Off/Preheat/Normal(ON)/Shutdown
	Min	11.73	0.00	-0.90	805.57	845.31	5.07	24.96	51.41	17.39	36.18	6.91	7.32	6.70	38.80	0.00	1.00	
	Max	20.27	20.74	162.48	980.32	1105.86	5.87	36.77	54.86	26.97	42.26	8.41	8.13	6.80	40.41	0.00	1.00	



April 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
4/18/2024	Average	13.75	0.43	52.15	938.42	1057.25	5.90	34.62	54.46	19.85	41.66	7.83	7.46	6.74	40.36	0.00	1.28	Shutdown/Off/Preheat/Normal(ON)/Shutdown/Off
	Min	11.54	0.00	-0.99	832.34	861.12	5.35	20.17	52.29	15.18	35.95	7.34	7.26	6.70	40.14	0.00	0.00	
	Max	20.36	49.64	162.48	1029.78	1108.23	6.16	40.57	56.28	32.26	45.01	9.17	8.13	6.80	40.70	0.00	2.00	
4/19/2024	Average	14.54	0.03	53.87	914.17	1047.63	5.78	34.55	52.72	18.17	39.05	8.00	7.41	6.71	38.50	0.00	1.17	Off/Preheat/Normal(ON)/Shutdown/Off/Preheat/Normal(ON)
	Min	10.18	0.00	0.00	747.03	635.44	5.28	23.36	49.73	2.88	30.98	4.30	6.44	6.70	26.36	0.00	1.00	
	Max	20.37	12.33	209.11	994.23	1120.03	6.20	47.72	55.03	30.68	43.89	9.40	7.80	6.74	40.69	0.00	2.00	
4/20/2024	Average	13.45	1.24	40.60	973.30	1066.02	5.11	28.26	49.04	20.78	36.59	7.85	7.38	6.70	40.18	0.03	1.09	Normal(ON)/Shutdown
	Min	11.52	0.00	9.36	897.08	1022.83	5.00	23.90	47.50	18.09	34.07	7.24	7.20	6.70	39.96	0.00	1.00	
	Max	15.58	547.35	145.75	1015.93	1115.89	5.31	32.45	50.87	23.83	39.07	8.61	7.99	6.72	40.42	0.22	2.00	
4/21/2024	Average	19.30	0.00	5.10	506.63	295.01	6.07	32.03	33.09	1.06	22.71	8.21	7.38	6.72	8.55	0.00	0.19	Shutdown/Off
	Min	12.21	0.00	0.00	176.13	53.84	5.00	21.10	22.98	-25.88	12.56	7.23	7.29	6.67	0.08	0.00	0.00	
	Max	20.41	0.00	67.64	992.13	1065.62	6.89	66.94	49.55	26.45	36.51	8.50	7.50	6.80	40.03	0.00	1.00	
4/22/2024	Average	20.25	0.00	0.00	80.59	37.25	6.97	28.12	27.96	-0.17	20.82	8.55	7.42	7.57	0.09	0.00	0.00	Off
	Min	20.07	0.00	0.00	54.92	30.52	6.89	19.87	23.15	-17.20	19.87	8.50	7.38	5.90	0.06	0.00	0.00	
	Max	20.42	0.00	0.00	175.89	53.79	7.00	58.22	41.21	4.62	22.69	8.60	7.50	9.11	0.10	0.00	0.00	
4/23/2024	Average	17.79	0.13	19.25	229.94	429.77	6.46	23.71	30.84	7.13	26.04	7.86	7.11	8.48	15.59	12.00	0.42	Off/Preheat/Shutdown
	Min	7.49	0.00	-14.30	43.86	24.44	5.08	14.79	18.05	1.21	18.78	3.67	5.02	6.69	0.09	0.00	0.00	
	Max	20.40	127.61	155.85	801.11	1067.33	7.00	41.55	57.16	26.61	45.57	8.60	7.56	9.20	40.75	40.03	2.00	
4/24/2024	Average	13.97	1.01	46.02	804.87	977.72	5.37	36.64	51.71	15.07	37.44	8.53	7.38	8.92	35.72	0.03	1.37	Off/Preheat/Normal(ON)
	Min	9.13	0.00	0.00	491.04	78.70	5.00	27.38	42.14	-25.34	20.28	7.27	7.07	8.10	7.59	0.00	0.00	
	Max	20.37	1398.10	105.40	970.00	1084.60	6.20	67.48	55.39	23.76	42.27	10.95	8.34	9.20	40.05	0.20	2.00	
4/25/2024	Average	13.70	1.67	50.85	918.00	1069.29	5.11	30.35	51.66	21.31	40.70	7.81	7.20	8.97	39.32	0.00	1.60	Normal(ON)/Shutdown
	Min	9.75	0.00	-0.25	832.24	1028.33	5.00	26.32	49.53	17.75	38.16	7.56	7.09	8.58	38.98	0.00	1.00	
	Max	14.79	222.47	138.83	969.69	1195.33	5.38	36.52	54.46	23.96	45.52	8.25	7.27	9.20	39.56	0.00	2.00	
4/26/2024	Average	14.28	3.82	39.76	1004.36	1060.77	5.22	32.56	51.60	19.04	40.92	7.74	7.29	9.11	39.58	0.00	2.00	Shutdown/Off/Preheat/Normal(ON)/Shutdown
	Min	11.70	0.00	0.00	970.55	963.14	5.00	26.21	49.31	16.29	37.11	7.29	7.15	8.94	39.00	0.00	1.00	
	Max	20.37	840.26	118.74	1032.15	1092.60	5.48	36.04	53.35	25.17	43.55	8.11	7.68	9.20	39.93	0.00	2.00	
4/27/2024	Average	18.13	0.79	8.87	635.79	497.91	5.94	47.70	41.17	-6.53	26.42	7.80	7.06	8.76	17.04	0.00	0.51	Shutdown/Off/Preheat/Normal(ON)/Shutdown/Off
	Min	9.81	0.00	-0.96	273.86	58.33	5.00	17.75	27.14	-45.51	15.32	7.30	7.00	8.60	0.10	0.00	0.00	
	Max	20.41	353.18	64.27	986.72	1082.38	7.08	77.81	53.95	34.83	42.04	8.20	7.21	9.06	40.45	0.00	2.00	
4/28/2024	Average	20.25	0.00	0.00	167.36	81.89	7.15	25.15	26.59	1.44	20.52	7.90	7.08	8.85	0.10	0.00	0.00	Off
	Min	20.07	0.00	0.00	102.55	57.76	7.08	24.14	25.76	0.64	16.89	7.65	6.94	8.80	0.10	0.00	0.00	
	Max	20.42	0.00	0.00	273.62	118.89	7.20	26.49	27.22	1.79	23.60	8.18	7.10	9.00	0.10	0.00	0.00	
4/29/2024	Average	20.26	0.00	0.00	74.64	45.46	7.22	24.88	26.51	1.63	21.56	7.71	6.97	9.12	0.09	0.00	0.00	Off
	Min	20.09	0.00	0.00	55.01	30.96	7.10	23.89	25.58	1.17	18.66	7.61	6.86	9.00	0.06	0.00	0.00	
	Max	20.40	0.00	0.00	102.50	57.73	7.30	26.11	27.78	1.92	23.08	7.80	7.01	9.23	0.10	0.00	0.00	
4/30/2024	Average	20.25	0.00	0.00	45.26	32.93	7.12	23.37	25.05	1.69	19.80	7.80	7.05	9.38	0.09	0.00	0.00	Off
	Min	20.07	0.00	0.00	37.97	25.56	7.00	22.35	24.45	1.11	17.86	7.80	7.00	9.20	0.08	0.00	0.00	
	Max	20.44	0.00	0.00	54.99	37.74	7.20	23.92	25.58	2.19	22.22	7.80	7.10	9.74	0.10	0.00	0.00	

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 ³	Explanation	Taken
4/26/2024	0:00	3:00	03:00	Normal	15	17.3	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.

Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
4/2/2024	6:54	7:30	00:36	Normal	991	Low secondary chamber temperature was caused by an incorrect flame port air setting while the incinerator was idle.	The operator corrected the flame port air setting. No waste was fed until the secondary chamber temperature returned to the normal operating range.
4/2/2024	11:13	15:13	04:00	Shutdown	829	Low secondary 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.

Atomizer Amps < 36

	Start	Stop		Op.	Atom. A	Atom. B		Action
Date	Time	Time	Duration	Mode	amps	amps	Explanation	Taken
4/2/2024	12:17:00	15:13:00	2:56:00	Shutdown	14.8		Low atomizer amperage caused by low water pressure during the shutdown process.	No waste was fed at this time. The incinerator was brought to a controlled shutdown.



May 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
5/1/2024	Average	20.11	0.00	-2.38	33.77	29.44	6.20	18.88	21.15	2.27	20.49	8.16	7.86	8.16	19.80	19.49	0.00	Off/Preheat
	Min	20.00	0.00	-9.90	31.07	28.33	5.24	14.08	17.15	1.33	18.00	7.70	7.09	6.58	0.05	0.00	0.00	
	Max	20.43	0.00	2.20	37.96	31.67	7.04	23.67	25.11	3.22	22.22	8.69	8.61	9.51	39.56	39.71	0.00	
5/2/2024	Average	15.90	140.62	22.07	332.18	572.88	5.60	21.89	31.02	9.13	27.15	7.55	7.41	6.94	36.40	35.84	0.49	Preheat/Shutdo wn/Off/Preheat
	Min	8.65	0.00	-8.80	30.41	28.89	5.01	13.41	16.58	-1.01	21.66	4.44	5.39	6.55	1.76	0.00	0.00	
	Max	20.43	3832.40	144.10	569.64	1064.93	6.12	37.63	50.98	29.58	34.34	8.67	8.54	8.71	40.49	39.57	1.00	
5/3/2024	Average	16.25	0.60	28.60	622.36	689.17	6.14	44.60	45.49	0.89	31.68	7.34	7.86	7.47	24.26	23.58	0.58	Preheat/Normal (ON)/Shutdown /Off
	Min	8.74	0.00	-0.05	284.22	166.38	5.90	25.87	28.01	-44.52	18.23	1.90	4.42	6.64	0.10	0.00	0.00	
	Max	20.41	584.66	137.97	872.68	1085.24	6.30	77.43	56.23	26.50	41.79	8.91	8.64	9.39	40.00	39.37	1.00	
5/4/2024	Average	20.03	0.03	1.08	170.25	148.17	5.73	25.72	27.13	1.41	21.26	7.72	8.40	6.36	0.44	0.35	0.00	Off/Preheat
	Min	12.84	0.00	0.00	105.03	64.31	5.54	23.58	25.24	-0.41	18.23	7.60	8.14	5.90	0.10	0.00	0.00	
	Max	20.42	32.93	35.15	283.93	853.90	6.08	28.42	28.01	2.05	23.91	7.90	8.49	6.76	14.56	14.60	0.00	
5/5/2024	Average	11.99	2.01	38.51	643.89	1032.01	6.31	30.29	48.03	17.73	36.69	7.12	7.32	6.93	37.76	37.97	0.88	Preheat/Normal (ON)/Shutdown /Off/Preheat
	Min	7.67	0.00	-0.32	227.13	855.26	5.63	24.17	25.73	1.08	21.90	4.10	7.13	5.92	14.78	14.82	0.00	
	Max	20.34	276.01	107.39	856.59	1082.01	6.84	34.44	56.38	27.04	42.06	7.75	8.14	7.57	40.71	40.17	1.00	
5/6/2024	Average	12.83	1.33	48.73	878.45	1058.06	5.84	31.59	50.83	19.25	39.82	7.77	7.40	8.23	39.13	39.03	0.96	Preheat/Normal (ON)/Shutdown /Off/Preheat
	Min	10.24	0.00	-2.75	837.39	896.22	5.37	22.91	48.41	14.63	36.10	7.34	7.17	7.48	38.47	37.92	0.00	
	Max	20.31	364.36	118.75	952.69	1090.72	6.10	37.45	52.19	28.46	42.63	8.88	8.16	8.83	40.70	39.58	1.00	
5/7/2024	Average	12.15	0.12	61.95	898.88	1059.33	5.85	32.43	50.92	18.49	40.62	8.00	7.43	8.34	38.92	39.10	1.00	Preheat/Normal (ON)/Shutdown /Off/Preheat
	Min	9.79	0.00	13.80	826.07	757.08	5.28	22.24	48.61	15.95	35.67	7.54	7.19	8.14	38.24	38.41	1.00	
	Max	19.24	26.31	128.15	938.08	1092.29	6.17	36.17	52.39	26.52	43.29	8.91	8.23	8.52	39.58	39.89	1.00	
5/8/2024	Average	11.84	1.94	57.88	899.86	1062.01	6.31	34.55	53.30	18.75	43.59	7.81	7.43	7.78	39.13	39.13	1.14	Preheat/Normal (ON)/Shutdown /Off/Preheat
	Min	9.91	0.00	-0.84	820.48	870.37	5.71	24.18	50.84	14.47	38.31	7.48	7.24	7.38	37.88	38.36	1.00	
	Max	20.31	9.28	104.50	963.74	1130.11	6.71	39.33	55.09	27.19	46.32	8.68	8.07	8.19	40.02	39.92	2.00	
5/9/2024	Average	11.99	3.71	42.78	950.26	1059.53	6.00	34.75	53.44	18.69	43.44	7.55	7.46	7.52	39.25	39.16	1.53	Preheat/Normal (ON)/Shutdown /Off/Preheat
	Min	8.93	0.00	-1.59	815.29	798.60	5.57	24.48	49.90	12.98	38.32	7.13	7.29	6.92	37.11	37.74	1.00	
	Max	20.36	542.75	138.40	1054.28	1135.97	6.24	39.37	57.10	27.01	45.71	8.02	7.78	8.14	40.31	39.81	2.00	
5/10/2024	Average	13.85	0.45	50.83	649.59	719.21	6.19	32.98	40.28	7.30	29.95	7.89	7.37	8.50	18.28	17.26	0.59	Preheat/Normal (ON)/Shutdown /Off
	Min	9.19	0.00	-1.41	301.00	209.29	5.42	22.72	26.05	-19.35	19.40	6.93	7.00	7.66	0.10	0.00	0.00	
	Max	20.39	24.95	95.09	973.99	1083.70	6.93	61.72	52.35	29.29	41.33	8.28	7.76	8.97	39.79	37.75	2.00	
5/11/2024	Average	12.24	1.59	45.70	679.52	953.34	5.90	31.75	47.71	15.95	35.30	7.03	7.62	8.25	33.18	0.00	1.01	Off/Preheat/Shut down/Off/Preheat /Normal(ON)
	Min	8.53	0.00	0.00	278.05	188.72	5.02	17.22	19.44	1.64	22.58	1.40	6.55	8.14	0.10	0.00	0.00	
	Max	20.37	665.68	95.00	898.00	1084.86	6.96	45.94	57.27	26.07	43.23	11.33	10.80	8.50	41.19	0.01	2.00	
5/12/2024	Average	12.25	1.14	55.64	852.94	1060.03	6.15	34.29	56.75	22.47	43.29	8.50	7.32	8.20	39.25	0.00	1.78	Normal(ON)/Shut down/Off/Prehea t
	Min	10.48	0.00	-1.10	763.43	739.36	5.95	30.93	55.48	20.77	41.68	7.92	7.21	8.19	38.75	0.00	1.00	
	Max	20.36	583.84	112.46	937.10	1107.41	6.37	36.72	57.75	26.30	44.88	9.87	7.44	8.21	39.60	0.00	2.00	
5/13/2024	Average	12.13	1.38	46.48	903.75	1068.25	6.47	36.53	56.86	20.33	44.66	8.61	7.38	8.20	39.62	0.00	1.93	Preheat/Normal(ON)/Shutdown
	Min	9.45	0.00	-1.41	781.78	1032.03	5.97	28.46	54.68	13.71	40.98	8.12	7.28	8.18	39.13	0.00	1.00	
	Max	18.80	702.72	361.69	969.60	1182.58	6.93	41.52	58.86	28.18	46.66	9.84	7.56	8.21	39.97	0.00	2.00	
5/14/2024	Average	12.49	0.63	45.96	890.29	1060.65	6.56	37.50	56.95	19.45	44.27	8.51	7.64	8.20	39.43	0.00	1.97	Shutdown/Off/Pr eheat/Normal(ON)
	Min	9.99	0.00	-0.44	798.80	815.42	6.23	27.99	54.85	16.21	41.70	7.60	7.29	8.19	39.20	0.00	1.00	
	Max	20.37	510.32	154.35	968.56	1121.70	6.89	41.28	58.46	29.78	45.92	9.41	8.34	8.22	39.90	0.00	3.00	
5/15/2024	Average	12.62	0.20	60.21	869.90	1061.21	6.43	37.40	56.05	18.66	43.40	7.80	7.71	8.19	39.27	0.00	2.24	Normal(ON)/Shut down/Off/Prehea t
	Min	10.83	0.00	-1.71	752.17	904.17	5.93	25.93	53.44	12.78	39.56	7.18	7.29	8.14	38.95	0.00	1.00	
	Max	20.27	10.22	143.27	927.92	1087.43	6.91	44.26	58.22	30.07	45.90	8.67	8.27	8.20	39.71	0.00	3.00	
5/16/2024	Average	11.99	3.23	42.66	892.96	1060.46	6.48	37.15	55.48	18.33	42.80	7.48	7.60	8.16	39.49	0.00	2.53	Preheat/Normal(ON)/Shutdown
	Min	7.15	0.00	14.42	725.64	1021.42	5.94	23.49	48.22	13.41	37.88	7.23	7.21	8.10	38.99	0.00	1.00	
	Max	14.30	728.28	405.52	960.63	1092.16	6.89	43.37	58.52	31.98	46.00	7.85	8.12	8.20	39.80	0.00	4.00	
5/17/2024	Average	16.01	0.89	30.37	736.24	752.71	7.07	36.14	49.34	13.19	36.02	7.81	7.61	8.12	25.25	0.00	1.66	Shutdown/Prehea t/Normal(ON)/Sh utdown/Off
	Min	8.82	0.00	-2.91	344.39	206.10	6.11	19.22	29.02	0.38	20.03	4.15	6.99	8.10	0.10	0.00	0.00	
	Max	20.41	623.59	140.68	977.10	1082.10	7.82	47.22	62.22	40.56	47.26	8.91	8.95	8.22	39.95	0.00	5.00	
5/18/2024	Average	20.25	0.00	0.00	198.27	114.66	7.81	25.98	27.07	1.09	22.11	8.81	8.34	8.08	0.10	0.00	0.00	Off
	Min	20.07	0.00	0.00	115.37	67.22	7.70	24.60	25.59	0.84	19.05	8.71	7.73	8.00	0.09	0.00	0.00	
	Max	20.42	0.00	0.00	343.32	205.42	7.90	27.80	29.00	1.50	25.61	8.92	8.47	8.10	0.10	0.00	0.00	

May 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
5/19/2024	Average	20.25	0.00	0.00	80.83	47.35	7.38	23.97	25.19	1.23	21.37	8.17	8.39	8.00	0.08	0.00	0.00	Off
	Min	20.10	0.00	0.00	61.31	31.67	7.20	21.81	22.97	1.07	16.82	7.79	8.32	8.00	0.02	0.00	0.00	
	Max	20.40	0.00	0.00	115.29	67.22	7.71	26.67	27.75	1.46	25.14	8.76	8.41	8.00	0.10	0.00	0.00	
5/20/2024	Average	20.25	0.00	0.00	51.35	28.59	7.72	26.55	27.61	1.06	24.15	8.42	8.27	8.00	0.10	0.00	0.00	Off
	Min	20.07	0.00	0.00	43.90	26.50	7.56	25.01	26.55	0.56	21.43	8.31	8.20	8.00	0.08	0.00	0.00	
	Max	20.44	0.00	0.00	61.29	31.73	7.90	27.70	29.40	1.71	26.12	8.50	8.38	8.00	0.10	0.00	0.00	
5/21/2024	Average	14.84	0.25	21.74	398.91	747.81	7.26	31.25	42.19	10.94	33.03	7.92	7.55	8.02	22.79	0.00	1.01	Off/Preheat/Nor mal(ON)
	Min	7.88	0.00	0.00	41.28	27.21	6.65	23.65	25.47	1.18	22.32	7.06	6.57	7.92	0.09	0.00	0.00	
	Max	20.43	132.48	95.67	736.56	1070.74	7.90	45.94	59.25	24.94	48.55	8.58	8.30	8.10	39.73	0.00	3.00	
5/22/2024	Average	12.36	0.48	49.07	838.60	1054.90	7.32	43.93	58.00	14.07	47.04	7.53	7.53	7.92	39.42	0.00	2.22	Normal(ON)/Shut down/Off
	Min	10.56	0.00	-0.14	736.74	811.26	7.02	40.07	55.81	13.00	45.29	6.84	7.21	7.89	37.38	0.00	2.00	
	Max	20.36	601.43	184.87	925.11	1088.27	7.55	45.59	59.43	17.50	48.66	7.77	7.89	7.99	39.87	0.00	3.00	
5/23/2024	Average	12.79	0.06	48.64	812.74	1039.26	6.52	36.57	54.79	18.23	42.62	7.48	7.22	7.89	37.43	0.00	2.02	Off/Preheat/Nor mal(ON)/Shutdow n/Off/Preheat
	Min	9.01	0.00	-3.09	725.83	526.93	6.18	26.53	51.94	12.98	40.09	7.37	7.10	7.83	24.96	0.00	1.00	
	Max	20.37	8.89	205.57	871.42	1082.53	7.19	41.04	60.22	26.45	45.84	7.65	7.42	7.90	39.79	0.00	3.00	
5/24/2024	Average	13.49	0.54	27.00	734.26	935.55	6.38	37.86	50.60	12.75	37.23	7.47	7.31	7.84	32.22	0.00	1.33	Preheat/Normal(ON)/Shutdown/Off/Pr eheat/Normal(ON)
	Min	8.78	0.00	0.00	528.15	313.30	5.99	21.26	34.88	-41.50	24.38	7.13	7.06	7.80	0.10	0.00	0.00	
	Max	20.39	295.20	87.84	918.77	1088.24	7.19	76.77	55.83	34.45	42.96	8.14	7.61	7.90	40.56	0.00	3.00	
5/25/2024	Average	12.49	1.67	32.97	945.29	1058.48	6.50	38.11	54.26	16.15	43.56	7.26	7.27	7.80	39.71	0.00	3.22	Normal(ON)/Shutdo wn/Off/Preheat
	Min	9.35	0.00	-1.61	801.19	855.18	6.08	31.52	52.22	14.08	40.78	7.15	7.14	7.78	39.09	0.00	2.00	
	Max	20.35	705.59	435.95	1026.39	1089.99	7.00	41.30	56.54	24.02	45.62	7.42	7.72	7.80	40.23	0.00	4.00	
5/26/2024	Average	13.10	0.10	34.40	843.02	1056.15	6.53	34.58	56.50	21.92	42.56	7.32	7.30	7.76	39.15	0.00	3.04	Preheat/Normal(ON)/Shutdown/Off/Pr eheat/Normal(ON)
	Min	10.37	0.00	-2.61	632.91	894.53	5.95	23.84	54.18	17.74	37.50	7.15	7.10	7.70	38.66	0.00	2.00	
	Max	20.41	49.03	91.09	971.28	1089.48	6.88	40.80	58.90	31.80	46.87	7.54	7.90	7.80	40.03	0.00	4.00	
5/27/2024	Average	16.84	2.00	15.85	666.05	653.48	6.99	58.88	53.00	-5.88	35.31	7.70	7.45	7.69	20.11	0.00	1.72	Normal(ON)/Shutdo wn/Off
	Min	9.13	0.00	0.00	312.81	169.33	6.66	34.94	38.19	-43.31	22.71	7.08	7.09	7.61	0.10	0.00	0.00	
	Max	20.40	269.78	97.42	876.63	1092.56	7.23	86.86	59.18	22.50	44.58	8.50	8.37	7.70	40.13	0.00	4.00	
5/28/2024	Average	15.81	1.31	20.60	583.40	751.56	6.61	43.51	53.16	9.64	35.98	7.64	7.45	7.67	28.45	0.00	2.21	Off/Preheat/Norma l(ON)/Shutdown/Of f/Preheat
	Min	9.31	0.00	-3.30	239.97	118.48	5.71	16.76	36.40	-45.15	19.78	7.10	7.03	7.60	0.04	0.00	0.00	
	Max	20.40	130.68	93.34	911.48	1080.07	7.35	84.13	61.28	42.48	46.87	8.50	8.35	7.74	41.17	0.00	5.00	
5/29/2024	Average	13.58	0.42	31.76	807.07	959.74	6.02	37.83	52.16	14.34	37.71	7.54	7.40	7.61	34.23	0.00	3.14	Preheat/Normal(ON)/Shutdown/Off/Pr eheat
	Min	8.59	0.00	-4.60	515.49	220.96	5.54	24.30	28.88	-45.01	18.73	7.07	7.07	7.58	0.10	0.00	0.00	
	Max	20.37	216.42	92.55	971.42	1083.90	6.41	74.31	61.05	28.73	43.89	8.93	8.05	7.70	40.16	0.00	6.00	
5/30/2024	Average	12.52	3.12	51.50	853.53	1058.76	5.87	34.22	53.30	19.08	37.33	7.27	7.43	7.58	38.92	0.00	2.33	Preheat/Normal(ON)/Shutdown/Off/Pr eheat
	Min	8.59	0.00	0.00	520.76	690.53	5.53	25.62	34.78	-25.57	20.46	7.06	7.22	7.50	11.47	0.00	0.00	
	Max	20.33	1793.06	365.61	948.70	1102.23	6.09	60.35	56.36	27.40	41.66	8.57	7.57	7.60	40.92	0.00	3.00	
5/31/2024	Average	12.84	1.77	56.61	921.33	1057.60	6.13	34.70	55.72	21.02	42.07	7.31	7.41	7.51	39.97	0.00	3.29	Preheat/Normal(ON)/Shutdown/Off/Pr eheat
	Min	10.49	0.00	0.00	791.54	862.47	5.53	26.61	50.30	16.47	35.96	7.11	7.28	7.50	39.80	0.00	2.00	
	Max	20.27	620.09	176.43	1005.78	1095.33	6.52	38.93	57.68	24.06	44.66	7.57	7.54	7.57	40.10	0.00	5.00	



May 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-May-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	198351.00
02-May-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	418.00	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.20	738.30	
03-May-24	503.00	502.60	473.70	501.30	475.00	500.30	300.50	501.30	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	3757.70	
04-May-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	
05-May-24	0.00	0.00	0.00	505.80	553.60	552.70	552.50	600.60	505.50	503.00	502.40	527.90	507.90	513.10	0.00	520.90	504.80	118.00	538.20	113.50	0.00	0.00	0.00	0.00	0.00	7620.40	
06-May-24	572.50	575.20	560.40	579.80	577.90	578.80	592.20	503.80	502.20	501.20	503.00	500.40	508.70	502.00	505.50	248.70	501.50	592.60	554.10	39.50	0.00	0.00	0.00	0.00	0.00	10000.00	
07-May-24	560.40	550.60	562.50	553.40	555.70	559.80	552.20	508.20	502.80	507.10	502.70	502.60	513.60	501.10	508.80	501.40	502.00	553.50	501.60	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	
08-May-24	411.90	576.80	592.10	570.80	570.10	572.90	571.70	340.20	501.00	508.80	502.50	505.70	505.50	385.50	506.30	552.00	590.20	594.70	504.70	136.60	0.00	0.00	0.00	0.00	0.00	10000.00	
09-May-24	576.00	575.40	575.50	571.60	573.80	570.70	574.20	502.80	503.10	501.40	501.80	500.90	501.40	500.20	500.70	252.00	503.80	500.20	502.50	212.00	0.00	0.00	0.00	0.00	0.00	10000.00	
10-May-24	527.80	651.60	653.30	650.20	652.00	0.00	0.00	0.00	0.00	0.00	0.00	110.10	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	3245.00	
11-May-24	0.00	0.00	0.00	0.00	0.00	554.20	552.60	0.00	0.00	510.10	339.80	518.40	0.00	0.00	0.00	0.00	0.00	0.00	203.80	570.20	569.40	570.20	570.80	570.30	5529.80		
12-May-24	569.50	570.10	571.50	571.50	569.60	571.60	511.20	410.70	505.40	510.20	464.40	506.90	550.20	564.00	563.20	566.90	554.40	540.30	328.40	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	
13-May-24	529.10	573.20	574.20	570.70	575.60	575.80	528.30	505.90	569.20	507.70	340.60	505.40	511.60	412.00	503.30	0.00	388.70	555.70	278.20	553.60	438.00	3.20	0.00	0.00	0.00	10000.00	
14-May-24	0.00	479.80	570.10	575.00	510.80	505.00	514.10	507.50	502.90	540.10	0.00	0.00	0.00	0.00	260.80	623.80	610.40	551.20	552.30	504.50	501.70	502.00	513.30	515.70	9841.00		
15-May-24	525.30	517.50	548.60	529.50	519.80	543.30	517.00	502.80	500.80	609.20	603.20	555.20	567.20	552.90	600.30	601.40	602.50	603.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	
16-May-24	507.90	520.70	501.60	502.50	501.60	507.30	505.10	319.10	357.00	506.80	0.00	504.50	505.60	269.40	504.40	504.60	504.60	450.40	358.80	507.30	506.30	535.10	119.40	0.00	10000.00		
17-May-24	0.00	0.00	108.10	513.20	502.20	502.40	500.70	255.50	462.20	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	2844.30	
18-May-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	
19-May-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	
20-May-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-May-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	509.20	550.20	501.80	510.30	501.00	501.50	501.90	504.30	4080.20		
22-May-24	571.60	551.10	552.40	553.70	564.40	558.30	353.20	508.10	525.00	518.70	510.90	226.10	501.10	567.70	570.00	575.70	607.00	511.60	511.40	162.00	0.00	0.00	0.00	0.00	0.00	10000.00	
23-May-24	0.00	574.60	573.00	572.20	574.50	480.50	574.80	501.30	553.60	516.60	574.70	570.20	553.50	616.10	579.70	577.60	502.60	502.80	301.30	300.40	0.00	0.00	0.00	0.00	0.00	10000.00	
24-May-24	552.30	550.60	552.30	551.30	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	185.30	504.40	507.60	510.80	512.20	507.30	524.20	5458.30		
25-May-24	504.10	515.30	507.80	500.40	515.10	504.20	501.40	504.80	490.10	505.10	411.80	546.30	515.90	511.20	514.90	511.00	513.10	567.10	516.80	343.60	0.00	0.00	0.00	0.00	0.00	10000.00	
26-May-24	571.20	573.90	575.30	0.00	0.00	0.00	0.00	0.00	0.00	501.20	502.50	502.10	503.20	512.40	502.80	476.30	502.00	515.50	506.60	570.60	570.90	572.20	569.70	412.70	9441.10		
27-May-24	569.30	571.80	570.50	572.70	572.00	567.90	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	3424.20		
28-May-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.70	506.30	505.70	501.00	501.80	504.20	511.30	518.00	368.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4417.70	
29-May-24	501.60	507.60	512.80	501.00	518.20	502.10	509.20	500.00	502.20	574.50	570.70	570.80	553.00	555.00	553.50	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7953.00	
30-May-24	502.00	505.10	506.40	507.00	502.20	513.40	507.20	499.50	505.70	581.90	570.20	576.60	553.40	550.30	558.50	563.00	601.10	602.50	294.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	
31-May-24	502.30	500.20	503.80	502.20	508.70	505.90	509.10	504.40	514.00	551.60	549.90	555.30	551.10	550.10	552.40	605.20	618.70	552.10	363.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	



TheDate	COSpanRes	CO Calgas	COSpan%Drift	NOxSpanRes	NOx Calgas	NOxSpan%drift	O2SpanRes	O2 Calgas	O2SpanDrift	COZeroRes	COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes	O2 Zerogas	O2ZeroDrift	Comments	
5/3/24 11:34		0	92.06	0	0	752	0	0	8.08	0	17	5.666667	0	0	0.1	0	0.1	
5/3/24 11:41		0	92.06	0	0	752	0	0	8.08	0	1	0.3333333	0	0	0.1	0	0.1	
5/3/24 11:49	93	92.06	0.09400024	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/3/24 13:12	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0	0.1	0	0.1	
5/3/24 13:19	93	92.06	0.09400024	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/3/24 13:26	0	92.06	0	0	752	0	8.1	8.08	0.02000046	0	0	0	0	0	0	0	0	
5/3/24 13:31	0	92.06	0	752	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/7/24 16:55	91	92.06	0.1059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/7/24 17:03	0	92.06	0	767	752	1.5	0	8.08	0	0	0	0	0	0	0	0	0	
5/8/24 6:47	0	92.06	0	0	752	0	0	8.08	0	0	0	-1	-0.1	0	0	0	0	
5/8/24 6:54	93	92.06	0.09400024	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/8/24 7:02	0	92.06	0	752	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/8/24 7:08	0	92.06	0	0	752	0	8	8.08	0.07999992	0	0	0	0	0	0	0	0	
5/9/24 7:04	91	92.06	0.1059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/9/24 7:10	0	92.06	0	0	752	0	8.1	8.08	0.02000046	0	0	0	0	0	0	0	0	
5/9/24 7:17	0	92.06	0	754	752	0.2	0	8.08	0	0	0	0	0	0	0	0	0	
5/10/24 15:09	91	92.06	0.1059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/10/24 15:14	0	92.06	0	0	752	0	9	8.08	0.9200001	0	0	0	0	0	0	0	0	
5/10/24 15:20	0	92.06	0	758	752	0.6	0	8.08	0	0	0	0	0	0	0	0	0	
5/13/24 15:03	89	92.06	0.3059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/13/24 15:09	0	92.06	0	0	752	0	8.2	8.08	0.1199999	0	0	0	0	0	0	0	0	
5/13/24 15:15	0	92.06	0	761	752	0.9	0	8.08	0	0	0	0	0	0	0	0	0	
5/16/24 10:27	89	92.06	0.3059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/16/24 10:33	0	92.06	0	0	752	0	8.2	8.08	0.1199999	0	0	0	0	0	0	0	0	
5/16/24 10:39	0	92.06	0	761	752	0.9	0	8.08	0	0	0	0	0	0	0	0	0	
5/22/24 21:32	88	92.06	0.4059997	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/22/24 21:39	0	92.06	0	0	752	0	8.5	8.08	0.4200001	0	0	0	0	0	0	0	0	
5/22/24 21:44	0	92.06	0	771	752	1.9	0	8.08	0	0	0	0	0	0	0	0	0	
5/23/24 21:53	89	92.06	0.3059998	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/23/24 21:58	0	92.06	0	0	752	0	8.5	8.08	0.4200001	0	0	0	0	0	0	0	0	
5/23/24 22:04	0	92.06	0	0	752	0	8.5	8.08	0.4200001	0	0	0	0	0	0	0	0	
5/23/24 22:09	0	92.06	0	771	752	1.9	0	8.08	0	0	0	0	0	0	0	0	0	
5/25/24 22:37	88	92.06	0.4059997	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/25/24 22:43	0	92.06	0	0	752	0	8.5	8.08	0.4200001	0	0	0	0	0	0	0	0	
5/25/24 22:49	0	92.06	0	773	752	2.1	0	8.08	0	0	0	0	0	0	0	0	0	
5/30/24 21:32	88	92.06	0.4059997	0	752	0	0	8.08	0	0	0	0	0	0	0	0	0	
5/30/24 21:38	0	92.06	0	0	752	0	8.7	8.08	0.6199999	0	0	0	0	0	0	0	0	
5/30/24 21:44	0	92.06	0	785	752	3.3	0	8.08	0	0	0	0	0	0	0	0	0	



O2 6 minute average < 7.5

O2 < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
5/16/2024	23:21	23:22	00:01	Shutdown	7.2	Low O2% levels were caused by a CO spike that occurred during the shutdown process.	No waste was fed at this time. The incinerator was brought to a controlled shutdown.

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 ³	Explanation	Taken
5/9/2024	22:30	0:00	01:30	Normal	13.1	15.1	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.
5/13/2024	17:00	21:00	04:00	Normal	8.3	9.6	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.
5/16/2024	23:21	3:00	03:39	Shutdown	36.5	42.1	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
5/25/2024	21:31	2:00	04:29	Shutdown	10.4	12.0	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

Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
5/2/2024	14:11	18:06	03:55	Shutdown	414	Machine was in Preheat. Push the shutdown to manage temp. Not feeding, Ram is stuck inside the incinerator due to a PLC malfunction. We've closed the burners to prevent overheating.	No waste was fed at this time. The incinerator was brought to a controlled shutdown.
5/5/2024	15:06	16:03	00:57	Normal	977	Low secondary chamber temperature was caused by an incorrect flame port air setting while the incinerator was idle.	The operator corrected the flame port air setting. No waste was fed until the secondary chamber temperature returned to the normal operating range.



June 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
6/1/2024	Average	12.68	0.66	67.22	946.78	1055.96	6.41	37.23	57.19	19.96	44.01	7.13	7.39	7.50	39.66	0.00	3.87	Preheat/Normal(O N)/Shutdown
	Min	10.64	0.00	19.06	791.69	999.54	6.03	30.67	55.69	17.02	40.85	7.03	7.23	7.48	39.44	0.00	3.00	
	Max	14.45	389.41	151.02	1014.14	1082.84	6.73	41.13	58.83	25.25	46.66	7.29	7.56	7.50	39.80	0.00	5.00	
6/2/2024	Average	19.35	1.74	5.75	498.04	350.69	6.94	63.63	35.41	-28.21	24.84	8.09	7.50	7.41	7.74	0.00	0.53	Shutdown/Off
	Min	10.44	0.00	0.00	181.31	72.77	6.06	26.78	28.07	-48.03	19.35	7.13	7.31	7.40	0.04	0.00	0.00	
	Max	20.41	923.22	84.93	1017.99	1071.56	7.50	78.41	55.67	26.71	42.96	8.40	7.67	7.48	39.53	0.00	4.00	
6/3/2024	Average	20.25	0.00	0.00	109.68	56.40	7.61	83.47	39.64	-43.83	22.68	8.49	7.50	7.40	0.03	0.00	0.00	Off
	Min	20.07	0.00	0.00	67.45	46.91	7.50	78.36	30.38	-48.56	20.10	8.40	7.50	7.40	0.00	0.00	0.00	
	Max	20.42	0.00	0.00	181.14	72.78	7.90	88.96	55.90	-32.44	26.40	8.50	7.50	7.40	0.10	0.00	0.00	
6/4/2024	Average	19.26	1.85	4.92	124.96	215.36	7.68	73.03	50.83	-22.20	26.58	8.37	7.44	7.40	6.53	0.00	0.21	Off/Preheat
	Min	10.73	0.00	-4.33	42.72	40.44	6.95	27.82	36.16	-46.91	20.59	7.12	6.96	7.36	0.00	0.00	0.00	
	Max	20.40	32.18	69.14	605.96	1065.09	8.04	86.80	68.63	29.52	37.71	8.60	7.50	7.40	40.45	0.00	2.00	
6/5/2024	Average	14.70	4.22	47.16	723.56	991.84	7.26	43.52	55.52	12.00	40.70	7.79	7.59	7.37	34.67	0.00	2.08	Preheat/Normal(O N)/Shutdown/Off/ Preheat
	Min	11.46	0.00	0.00	607.18	467.50	6.90	32.07	42.75	-32.25	31.04	6.93	7.00	7.30	2.70	0.00	0.00	
	Max	20.37	1302.75	128.49	857.99	1089.56	7.72	75.04	59.05	23.94	45.63	9.45	8.25	7.40	39.88	0.00	3.00	
6/6/2024	Average	14.20	0.47	50.28	737.11	1060.56	7.07	38.65	55.89	17.24	41.64	8.75	8.08	7.30	39.44	0.00	2.06	Preheat/Normal(O N)/Shutdown/Off/ Preheat
	Min	12.59	0.00	-2.24	692.84	898.06	6.50	29.32	53.89	14.51	39.08	7.81	7.57	7.30	37.43	0.00	1.00	
	Max	20.31	307.58	221.23	804.21	1087.12	7.40	42.48	57.66	24.57	42.85	9.37	8.44	7.33	39.82	0.00	3.00	
6/7/2024	Average	14.31	1.69	45.63	865.10	1061.62	6.45	35.80	53.12	17.32	39.66	9.23	8.03	7.30	40.24	0.00	2.60	Preheat/Normal(O N)/Shutdown
	Min	13.15	0.00	-1.03	779.29	1017.47	6.29	28.69	51.88	13.48	38.42	8.01	7.35	7.30	36.79	0.00	1.00	
	Max	17.94	136.86	113.44	924.32	1103.79	6.55	40.60	54.22	25.04	41.94	10.64	9.00	7.32	40.83	0.00	4.00	
6/8/2024	Average	14.33	0.92	51.96	898.94	1061.57	6.55	36.89	53.12	16.24	40.19	10.20	8.46	7.29	39.59	0.00	3.25	Shutdown/Off/Pre heat/Normal(ON)/ Shutdown
	Min	12.44	0.00	-1.58	733.77	785.63	6.26	31.95	51.04	13.56	37.84	10.03	8.04	7.23	37.62	0.00	2.00	
	Max	20.37	73.50	148.57	1022.73	1132.20	6.76	40.63	54.46	19.99	41.82	10.77	9.23	7.32	40.60	0.00	4.00	
6/9/2024	Average	15.17	0.16	40.93	877.46	992.06	6.29	35.60	52.37	16.77	39.06	10.25	8.54	7.21	38.24	0.00	3.68	Shutdown/Off/Pre heat/Normal(ON)/ Shutdown/Off
	Min	9.68	0.00	-1.20	593.22	401.79	5.95	18.39	47.96	-1.05	30.83	9.96	7.54	7.12	9.17	0.00	0.00	
	Max	20.37	21.45	418.15	984.51	1111.31	6.47	49.22	58.89	40.05	40.56	11.20	10.17	7.25	40.13	0.00	6.00	
6/10/2024	Average	15.18	8.81	25.86	572.16	853.51	5.92	36.27	47.55	11.28	31.50	10.54	9.02	7.18	28.62	0.00	0.00	Off/Preheat/Norm al(ON)
	Min	0.51	0.00	-6.05	375.15	219.99	5.39	17.60	22.55	-46.59	15.70	7.39	7.62	7.10	0.07	0.00	0.00	
	Max	20.41	44.26	427.29	754.56	1084.24	6.62	69.24	56.53	34.35	38.39	14.00	11.36	7.29	40.68	0.00	0.00	
6/11/2024	Average	12.21	3.12	43.96	833.61	1063.84	6.00	33.10	53.06	19.96	36.56	7.50	7.83	7.19	39.33	0.00	0.00	Normal(ON)/Shutd own/Off
	Min	9.64	0.00	0.00	732.93	743.88	5.71	28.81	50.35	13.96	34.29	7.23	7.36	7.14	33.79	0.00	0.00	
	Max	20.36	148.17	383.54	1015.12	1114.06	6.41	39.13	57.42	26.20	39.74	8.25	8.45	7.21	39.99	0.00	0.00	
6/12/2024	Average	19.94	0.00	3.36	418.52	155.11	7.22	47.89	29.36	-18.53	22.03	9.40	8.55	4.72	1.86	0.00	0.00	Off
	Min	11.50	0.00	0.00	155.53	52.78	6.19	27.05	24.51	-48.43	15.99	8.26	8.19	0.00	0.04	0.00	0.00	
	Max	20.41	0.00	95.00	998.73	738.53	7.60	75.05	52.06	17.43	34.22	9.79	8.60	7.20	33.57	0.00	0.00	
6/13/2024	Average	20.25	0.00	0.00	107.48	49.03	7.79	28.65	29.49	0.85	26.18	9.14	8.55	0.62	0.10	0.00	0.00	Off
	Min	20.07	0.00	0.00	62.23	39.46	7.59	24.51	25.59	0.01	21.19	8.64	8.50	0.00	0.10	0.00	0.00	
	Max	20.42	0.00	0.00	155.36	171.82	8.22	33.57	34.06	1.55	30.51	9.60	8.60	2.87	0.10	0.00	0.00	
6/14/2024	Average	16.39	0.90	11.64	234.20	413.14	7.47	28.47	35.80	7.34	30.27	8.88	8.45	3.16	14.08	0.00	0.00	Off/Preheat/Norm al(ON)
	Min	7.64	0.00	-12.46	38.15	31.67	6.20	22.01	27.03	0.97	25.75	8.22	7.95	1.10	0.03	0.00	0.00	
	Max	20.40	95.46	137.11	669.77	1066.72	8.29	37.72	53.35	22.71	41.31	9.20	8.61	7.00	39.32	0.00	0.00	
6/15/2024	Average	12.08	2.57	35.26	808.65	1049.99	6.12	33.75	53.22	19.47	38.47	8.99	8.22	7.01	37.55	0.00	0.00	Normal(ON)/Shutd own/Off/Preheat/ Normal(ON)
	Min	8.89	0.00	-9.08	669.98	782.89	5.84	25.03	47.89	4.34	34.04	8.19	7.49	7.00	23.56	0.00	0.00	
	Max	20.37	133.85	100.07	915.36	1093.10	6.34	43.65	56.07	28.90	41.27	10.14	8.72	7.03	40.42	0.00	0.00	
6/16/2024	Average	12.29	2.75	43.93	938.43	1058.48	6.24	34.86	54.17	19.32	40.88	8.80	7.99	7.00	39.80	0.00	0.24	Normal(ON)
	Min	9.51	1.27	11.05	644.08	944.90	5.93	30.89	52.36	11.57	38.23	8.09	7.37	6.99	39.44	0.00	0.00	
	Max	15.01	46.57	190.93	1292.18	1098.18	6.50	41.12	56.46	25.10	43.59	9.69	8.85	7.00	40.06	0.00	1.00	
6/17/2024	Average	15.30	1.77	26.87	685.82	814.56	7.24	48.83	53.82	4.99	41.34	9.71	8.80	6.98	27.86	0.00	0.63	Normal(ON)/Shutd own/Off
	Min	10.88	0.00	0.00	357.34	238.10	6.30	33.90	36.53	-44.89	30.16	8.48	7.79	6.90	0.10	0.00	0.00	
	Max	20.41	16.24	95.00	831.70	1094.17	8.70	83.71	62.85	23.51	46.14	11.39	9.32	7.00	39.68	0.00	1.00	
6/18/2024	Average	16.35	3.30	16.96	349.10	515.78	8.27	66.63	43.22	-23.42	34.57	11.59	9.12	6.94	14.07	0.00	0.05	Off/Preheat/Norm al(ON)
	Min	6.88	0.00	-6.55	166.03	116.30	7.57	31.48	30.30	-47.68	26.74	7.75	7.66	6.90	0.08	0.00	0.00	
	Max	20.40	734.60	111.49	658.77	1079.87	8.70	86.91	64.19	29.30	50.69	13.41	10.21	7.00	40.07	0.00	1.00	



June 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
6/19/2024	Average	14.05	2.74	40.75	711.17	913.38	7.84	48.01	56.36	8.35	43.34	8.76	8.28	6.93	34.23	0.00	0.27	Normal(ON)/Shutdown/Off
	Min	10.82	0.00	0.00	505.54	175.04	7.48	37.58	45.00	-37.78	36.11	7.52	7.56	6.90	0.10	0.00	0.00	
	Max	20.37	84.29	194.32	804.37	1081.30	9.00	82.90	59.08	19.48	46.15	11.00	8.81	6.98	40.71	0.00	1.00	
6/20/2024	Average	13.07	4.38	36.28	646.39	965.43	7.87	46.36	55.42	9.06	43.77	8.66	8.03	6.93	34.43	0.00	0.55	Off/Preheat/Normal(ON) Shutdown/Off/Preheat/Normal(ON)
	Min	8.71	0.00	-14.85	467.43	99.36	7.50	35.99	44.55	-38.04	35.55	7.69	7.35	6.90	0.10	0.00	0.00	
	Max	20.39	310.10	171.75	757.72	1082.62	9.02	82.78	58.52	19.44	46.94	11.14	8.89	6.98	39.87	0.00	1.00	
6/21/2024	Average	12.35	7.18	54.27	749.10	1041.65	7.60	43.21	56.29	13.09	46.59	8.69	7.94	6.91	38.78	0.00	0.97	Normal(ON)/Shutdown/ Off/Preheat/Normal(ON)
	Min	7.41	0.00	-0.19	629.63	567.58	7.43	37.43	28.62	-13.40	41.43	7.63	7.26	6.89	25.86	0.00	0.00	
	Max	20.36	4244.80	428.28	863.74	1086.67	7.76	49.20	62.41	17.96	49.31	10.19	8.88	6.93	40.33	0.00	1.00	
6/22/2024	Average	15.62	0.53	29.02	666.20	730.05	7.64	39.02	49.51	10.49	38.78	9.29	8.34	6.89	26.60	0.00	0.64	Normal(ON)/Shutdown/ Off
	Min	11.26	0.00	0.00	309.46	92.71	7.27	30.70	32.04	0.50	23.90	7.61	7.23	6.83	0.10	0.00	0.00	
	Max	20.41	19.37	162.18	818.62	1095.51	8.11	46.39	58.50	17.51	48.94	10.86	9.74	6.91	40.40	0.00	1.00	
6/23/2024	Average	20.25	0.00	0.00	150.44	58.31	8.20	30.74	31.85	1.11	27.16	12.72	9.82	6.89	0.08	0.00	0.00	Off
	Min	20.07	0.00	0.00	58.55	37.81	8.11	29.08	30.56	-0.06	23.89	10.56	9.70	6.82	0.05	0.00	0.00	
	Max	20.42	0.00	0.00	309.05	94.44	8.26	33.61	33.66	1.96	30.33	13.45	9.96	6.90	0.10	0.00	0.00	
6/24/2024	Average	20.25	0.00	0.00	45.10	37.24	7.98	27.77	28.53	0.76	26.46	12.62	9.84	6.83	0.03	0.00	0.00	Off
	Min	20.10	0.00	0.00	40.77	33.89	7.90	26.67	27.36	0.32	25.55	11.80	9.80	6.80	0.00	0.00	0.00	
	Max	20.40	0.00	0.00	58.50	39.50	8.17	29.35	30.68	1.40	28.58	13.40	9.93	6.90	0.09	0.00	0.00	
6/25/2024	Average	20.25	0.00	0.00	38.76	34.54	7.88	26.68	27.65	0.97	25.06	11.18	9.85	6.80	0.01	0.00	0.00	Off
	Min	20.07	0.00	0.00	37.25	33.49	7.80	24.04	25.10	0.62	20.79	9.23	9.80	6.80	0.00	0.00	0.00	
	Max	20.44	0.00	0.00	42.88	38.29	8.00	28.89	30.11	1.47	28.32	12.70	9.90	6.80	0.03	0.00	0.00	
6/26/2024	Average	19.82	0.17	1.17	65.70	68.95	7.97	27.79	28.85	1.05	26.64	12.24	9.96	6.80	0.49	0.00	0.00	Off/Preheat
	Min	7.13	0.00	0.00	34.74	30.00	6.92	23.03	25.07	-0.22	22.45	11.97	9.80	6.75	0.00	0.00	0.00	
	Max	20.43	10.66	28.63	305.56	730.60	8.10	30.34	31.14	8.10	28.71	12.81	12.20	6.80	16.88	0.00	0.00	
6/27/2024	Average	12.30	1.92	42.22	552.44	1008.99	6.53	32.53	51.54	19.01	35.61	8.83	8.23	6.80	36.41	0.00	0.00	Preheat/Shutdown Preheat/Normal(ON)
	Min	7.30	0.00	0.00	306.93	733.04	5.90	21.31	24.18	-3.73	17.78	7.04	7.29	6.75	0.61	0.00	0.00	
	Max	20.37	108.11	170.40	615.51	1081.04	6.91	39.41	59.57	26.05	41.45	13.20	12.26	6.81	40.40	0.00	0.00	
6/28/2024	Average	12.53	1.69	47.23	618.26	1035.74	6.56	35.51	56.72	21.21	39.46	8.09	7.74	6.80	39.51	0.00	0.21	Normal(ON)/Shutdown/Off
	Min	10.24	0.00	0.00	570.23	551.63	6.15	32.27	51.56	4.55	34.88	7.33	7.41	6.80	26.63	0.00	0.00	
	Max	20.37	59.08	202.19	716.01	1073.61	6.96	47.05	58.24	24.36	41.38	9.65	8.29	6.81	40.17	0.00	1.00	
6/29/2024	Average	12.62	1.50	28.79	674.91	1003.88	7.53	41.44	56.20	14.75	40.13	8.07	7.89	6.81	36.47	0.00	0.00	Off/Preheat/Normal(ON)
	Min	8.37	0.00	-2.43	565.41	441.34	6.60	23.52	25.74	-11.81	25.00	7.56	7.54	6.80	9.53	0.00	0.00	
	Max	20.37	24.84	113.59	727.32	1078.80	8.01	56.55	60.83	19.37	44.33	9.67	8.50	6.90	40.01	0.00	0.00	
6/30/2024	Average	12.52	1.67	28.81	598.34	1052.01	6.87	32.52	51.45	18.93	38.37	7.91	7.58	6.80	39.30	0.00	0.12	Normal(ON)/Shutdown/Off/Preheat
	Min	9.56	0.00	-3.00	571.45	443.31	6.08	25.15	48.26	14.66	34.23	7.55	7.28	6.79	35.71	0.00	0.00	
	Max	20.36	20.51	118.84	646.78	1084.88	7.98	39.98	55.31	23.54	42.71	8.93	8.32	6.80	39.94	0.00	1.00	



June 2024 Incinerator 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	Montly Sum
01-Jun-24	504.40	503.10	502.30	500.70	499.90	498.00	364.60	501.20	505.70	501.90	0.00	0.00	309.90	505.00	501.80	501.80	506.90	502.10	297.90	508.60	505.40	536.50	442.30	0.00	10000.00	178181.9
02-Jun-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	
03-Jun-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	
04-Jun-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	504.70	515.50	506.30	1526.50	
05-Jun-24	550.80	0.00	552.60	551.20	550.40	557.60	556.60	508.30	501.60	261.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	506.80	583.20	553.40	552.50	549.90	549.90	549.30	8435.20	
06-Jun-24	549.10	550.50	551.20	549.60	549.70	550.50	528.70	501.10	501.70	572.40	576.80	574.30	550.80	256.60	553.00	640.00	503.40	502.40	438.20	0.00	0.00	0.00	0.00	0.00	10000.00	
07-Jun-24	508.90	504.50	517.50	468.30	506.90	505.90	502.90	0.00	500.40	505.90	504.20	553.00	552.60	552.40	557.80	608.20	601.30	551.70	572.00	425.60	0.00	0.00	0.00	0.00	10000.00	
08-Jun-24	305.70	501.10	501.10	501.50	501.10	501.00	311.20	503.50	513.00	515.60	503.10	507.40	508.90	505.10	506.50	503.10	514.40	504.10	512.40	500.80	279.40	0.00	0.00	0.00	10000.00	
09-Jun-24	77.50	573.00	570.30	575.60	577.80	570.70	573.80	504.70	503.20	521.00	512.40	503.50	506.00	506.20	502.40	509.60	522.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8610.40	
10-Jun-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	502.60	503.60	502.20	550.20	551.10	555.80	552.20	551.60	550.80	570.00	550.90	5941.00	
11-Jun-24	554.20	550.80	554.00	553.20	551.00	550.00	560.30	507.00	529.90	595.60	604.00	563.00	577.30	353.20	275.10	554.50	561.40	435.00	570.50	0.00	0.00	0.00	0.00	0.00	10000.00	
12-Jun-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	
13-Jun-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	
14-Jun-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	504.00	519.20	558.80	550.60	551.80	552.20	568.10	3804.70	
15-Jun-24	556.20	551.90	503.30	552.20	551.00	554.00	421.10	606.30	0.00	0.00	0.00	0.00	0.00	510.40	507.50	521.30	520.10	507.10	543.50	554.20	552.20	557.50	562.90	367.30	10000.00	
16-Jun-24	557.80	553.60	551.90	557.10	554.70	552.20	556.10	499.00	500.00	190.20	0.00	8.50	552.90	0.00	31.70	458.90	34.20	599.50	605.00	552.50	557.50	550.90	555.90	419.90	10000.00	
17-Jun-24	557.30	578.60	587.20	572.40	566.20	551.50	548.20	324.00	503.50	280.80	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	5069.70	
18-Jun-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	504.90	274.20	208.10	179.00	505.10	522.20	507.40	554.00	3254.90	
19-Jun-24	551.40	559.00	558.20	564.70	550.00	560.80	573.90	517.50	535.00	578.60	513.80	512.00	530.80	162.90	513.00	121.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7902.80	
20-Jun-24	0.00	360.80	553.60	554.80	557.20	552.80	557.30	513.70	501.40	0.00	0.00	0.00	0.00	0.00	0.00	508.40	506.60	515.20	513.00	555.60	555.70	553.00	553.00	551.30	8963.40	
21-Jun-24	554.70	554.90	557.30	554.20	551.60	558.80	556.50	506.20	506.70	461.40	15.10	0.00	0.00	0.00	0.00	67.80	559.20	552.90	570.40	588.40	580.90	584.60	583.60	534.80	10000.00	
22-Jun-24	576.80	574.90	574.10	570.50	570.90	575.20	577.60	506.00	501.30	503.70	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	5531.00	
23-Jun-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	
24-Jun-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	
25-Jun-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	
26-Jun-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	
27-Jun-24	0.00	95.80	0.00	0.00	0.00	0.00	0.00	477.90	514.70	527.50	504.90	502.90	526.80	551.20	505.40	516.60	520.00	505.10	507.70	582.90	573.00	571.60	575.70	587.70	9147.40	
28-Jun-24	571.40	588.60	576.10	586.90	578.80	572.20	572.70	215.50	560.80	558.00	557.90	530.60	539.70	484.70	555.60	560.30	562.70	543.30	279.10	0.00	0.00	0.00	0.00	0.00	9994.90	
29-Jun-24	0.00	0.00	0.00	557.70	551.80	555.40	551.10	519.60	506.90	517.50	473.40	515.50	517.30	535.70	509.00	509.90	512.90	493.20	435.60	590.60	577.60	569.30	0.00	0.00	10000.00	
30-Jun-24	573.70	570.80	572.80	570.70	575.90	570.10	591.30	578.10	539.30	500.40	572.30	590.60	472.90	543.80	599.50	582.30	506.20	489.30	0.00	0.00	0.00	0.00	0.00	0.00	10000.00	

June 2024 CEM Calibration Log

TheDate	COSpanRes	CO Calgas	COSpan%Drift	NOxSpanRes	NOX Calgas	NOxSpan%drift	O2SpanRes	O2 Calgas	O2SpanDrift	COZeroRes	COZero%Drift	NOxZeroRes	NOxZero%Drift	O2ZeroRes	O2 Zerogas	O2ZeroDrift	Comment
6/9/24 0:05	0	92.06	9.205999	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/9/24 0:10	0	92.06	0	0	752	0	10.9	8.08	2.82	0	0	0	0	0	0	0	
6/9/24 0:15	0	92.06	0	793	752	4.1	0	8.08	0	0	0	0	0	0	0	0	
6/10/24 11:07	15	92.06	7.706	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/10/24 11:13	0	92.06	0	0	752	0	7.7	8.08	0.3800001	0	0	0	0	0	0	0	
6/10/24 11:21	0	92.06	0	793	752	4.1	0	8.08	0	0	0	0	0	0	0	0	
6/10/24 11:53	0	92.06	0	0	752	0	0	8.08	0	0	0	4	0.4	0.4	0	0.4	
6/10/24 12:06	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.4	0	0.4	
6/10/24 12:13	94	92.06	0.1940002	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/10/24 12:18	0	92.06	0	0	752	0	7.8	8.08	0.2799997	0	0	0	0	0	0	0	
6/10/24 12:24	0	92.06	0	780	752	2.8	0	8.08	0	0	0	0	0	0	0	0	
6/11/24 23:19	5	92.06	8.705999	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/11/24 23:25	0	92.06	0	0	752	0	9.4	8.08	1.32	0	0	0	0	0	0	0	
6/11/24 23:30	0	92.06	0	797	752	4.5	0	8.08	0	0	0	0	0	0	0	0	
6/12/24 10:03	93	92.06	0.09400024	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/12/24 10:30	0	92.06	0	0	752	0	7.8	8.08	0.2799997	0	0	0	0	0	0	0	
6/12/24 10:48	0	92.06	0	799	752	4.7	0	8.08	0	0	0	0	0	0	0	0	
6/17/24 14:24	11	92.06	8.106	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/17/24 14:32	0	92.06	0	0	752	0	9.7	8.08	1.62	0	0	0	0	0	0	0	
6/17/24 14:39	0	92.06	0	795	752	4.3	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 11:00	18	92.06	7.406	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 11:06	0	92.06	0	0	752	0	8.8	8.08	0.7200003	0	0	0	0	0	0	0	
6/21/24 11:13	0	92.06	0	720	752	3.2	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 11:20	20	92.06	7.206	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 11:26	0	92.06	0	0	752	0	7.8	8.08	0.2799997	0	0	0	0	0	0	0	
6/21/24 11:32	0	92.06	0	720	752	3.2	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 12:09	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.3	0	0.3	
6/21/24 12:16	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.4	0	0.4	
6/21/24 12:21	0	92.06	9.205999	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 12:27	0	92.06	0	0	752	0	7.8	8.08	0.2799997	0	0	0	0	0	0	0	
6/21/24 12:45	0	92.06	0	0	752	0	0	8.08	0	11	3.666667	0	0	0.4	0	0.4	
6/21/24 13:48	0	92.06	0	0	752	0	0	8.08	0	42	14	-1	-0.1	0.4	0	0.4	
6/21/24 14:00	0	92.06	0	0	752	0	0	8.08	0	60	20	0	0	0.4	0	0.4	
6/21/24 15:15	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.4	0	0.4	
6/21/24 15:25	48	92.06	4.406	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 15:31	48	92.06	4.406	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 18:22	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.2	0	0.2	
6/21/24 18:29	94	92.06	0.1940002	0	752	0	0	8.08	0	0	0	0	0	0	0	0	
6/21/24 18:37	0	92.06	0	0	752	0	0	8.08	0	0	0	0	0	0.3	0	0.3	
6/21/24 18:43	0	92.06	0	753	752	0.1	0	8.08	0	0	0	0	0	0	0	0	



Stericycle®

O2 6 minute average < 7.5

O2 < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
6/21/2024	13:33	13:34	00:01	Shutdown	7.4	Low O2% levels were caused by a CO spike that occurred during the shutdown process.	No waste was fed at this time. The incinerator was brought to a controlled shutdown.

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 ³	Explanation	Taken
6/2/2024	0:30	4:00	03:30	Shutdown	21.2	24.5	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
6/7/2024	10:00	15:00	05:00	Normal	15.1	17.4	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
6/27/2024	3:05	5:40	02:35	Shutdown	862	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.

Atomizer Amps < 36

	Start	Stop		Op.	Atom. A	Atom. B		Action
Date	Time	Time	Duration	Mode	amps	amps	Explanation	Taken
6/27/2024	03:58:00	05:39:00	1:41:00	Shutdown	19.0		Low atomizer amperage caused by low water pressure during the shutdown process.	No waste was fed at this time. The incinerator was brought to a controlled shutdown.