

Stericycle®

**2024 Q1
INCINERATION
REPORT**



Stericycle, ULC

95 Deerhurst Drive

Brampton, ON

L6T 5R7

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April 29, 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 first quarter of 2024.

During January 2024 there were 5 occurrences of the 4-hour CO alarm & 0 occurrences of the 12-hour CO alarm. In February 2024 there were 7 occurrences of the 4-hour CO alarm and 0 occurrence of the 12-hour CO alarm. In March 2024 there were 9 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 Q1 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.

FIRST QUARTER 2024 INCINERATOR QUARTERLY REPORT - SUPPLEMENTAL INFORMATION

- The Emergency Bypass stack was not used during Q1 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 first quarter of 2024, the incinerator was run by trained Stericycle operators Raminderpal Singh, Said M. Said, Lamek Abraha, Nasif Ferdaus Ahad, Ndubuisi Fyeface, & Anuraj Singh.
- There were no complaints received regarding the operation of the incinerator during the first quarter of 2024.
- Stericycle Inc. operated the incinerator on the following days during the fourth quarter:

Jan-24				Feb-24			
Start-up		Shutdown		Start-up		Shutdown	
Date	Time	Date	Time	Date	Time	Date	Time
		1-Jan	18:38			2-Feb	17:28
1-Jan	22:41	2-Jan	17:05	2-Feb	21:43	3-Feb	19:17
2-Jan	21:39	3-Jan	18:23	3-Feb	23:21	4-Feb	20:02
3-Jan	22:43	4-Jan	18:15	5-Feb	01:23	6-Feb	18:06
4-Jan	23:09	5-Jan	18:05	6-Feb	22:16	7-Feb	16:51
5-Jan	22:10	6-Jan	17:17	7-Feb	20:51	8-Feb	17:58
6-Jan	21:20	8-Jan	08:18	8-Feb	22:00	9-Feb	21:23
8-Jan	12:41	9-Jan	18:17	10-Feb	01:26	10-Feb	18:03
9-Jan	22:36	10-Jan	17:02	10-Feb	22:05	11-Feb	16:06
10-Jan	21:44	12-Jan	13:48	11-Feb	20:09	12-Feb	19:11
13-Jan	01:53	14-Jan	18:10	12-Feb	23:12	13-Feb	15:34
14-Jan	22:12	15-Jan	22:45	14-Feb	14:59	14-Feb	16:40
16-Jan	03:37	18-Jan	09:06	15-Feb	03:46	15-Feb	09:26
18-Jan	13:15	18-Jan	21:12	23-Feb	11:51	24-Feb	20:29
19-Jan	02:55	20-Jan	07:03	25-Feb	00:26	25-Feb	19:36
20-Jan	11:26	23-Jan	05:39	25-Feb	23:48	26-Feb	18:40
23-Jan	16:46	26-Jan	10:16	26-Feb	22:42	27-Feb	17:21
30-Jan	07:48	30-Jan	18:59	27-Feb	21:56	28-Feb	16:53
30-Jan	23:39	31-Jan	04:34	28-Feb	21:07	29-Feb	16:30
31-Jan	08:43	31-Jan	19:13	29-Feb	21:03		
31-Jan	21:11						

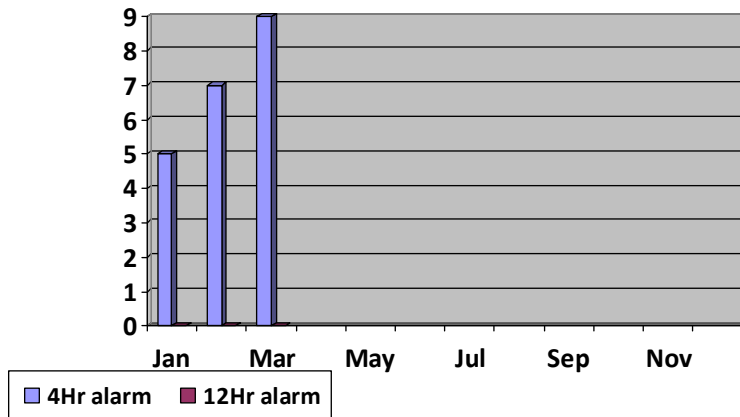
Mar-24			
Start-Up		Shut-Down	
Date	Time	Date	Time
		1-Mar	18:21
1-Mar	23:16	2-Mar	18:05
2-Mar	23:21	3-Mar	17:33
3-Mar	22:00	4-Mar	11:50
4-Mar	16:40	5-Mar	06:55
5-Mar	11:45	6-Mar	17:03
6-Mar	21:07	7-Mar	10:05
7-Mar	16:25	8-Mar	18:00
8-Mar	22:34	9-Mar	19:35
9-Mar	23:46	10-Mar	13:25
10-Mar	17:37	11-Mar	17:31
11-Mar	21:57	12-Mar	16:21
12-Mar	20:45	13-Mar	18:48
13-Mar	22:55	14-Mar	18:11
14-Mar	22:20	15-Mar	07:09
15-Mar	13:17	16-Mar	19:41
17-Mar	03:41	17-Mar	12:40
18-Mar	04:43	19-Mar	01:37
19-Mar	07:16	20-Mar	16:45
20-Mar	21:45	21-Mar	07:53
22-Mar	14:42	23-Mar	19:35
25-Mar	08:58	26-Mar	18:03
26-Mar	22:05	27-Mar	19:28
27-Mar	23:57	28-Mar	17:58
28-Mar	22:06	29-Mar	06:39
29-Mar	12:11	29-Mar	21:28
30-Mar	01:37	30-Mar	22:37

During Q1 of 2024 routine maintenance was performed on the incinerator during the scheduled shutdowns along with the following:

- Replacement of the piping on the cooling tower.
- Boiler maintenance and inspection.

CO Alarm Chart Q1 2024

Month	4 Hour CO average alarms	12 Hour CO average alarms
January	5	0
February	7	0
March	9	0
April		
May		
June		
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		
May	16	1		
June	15	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 Q1 of 2024.

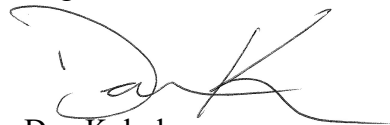
Stericycle is very committed to the full compliance with all conditions of its Provisional Certificate of Approval, throughout the year, whenever a situation of possible non-compliance was identified; immediate actions were taken to ensure full compliance. Stericycle has mechanisms in place to always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



Januray 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
1/1/2024	Averager	11.57	0.01	91.50	941.45	1064.59	5.00	34.37	53.49	19.12	43.48	7.42	7.33	6.80	39.78	0.00	2.34	Preheat/Normal
	Min	10.68	0.00	12.18	640.20	929.96	4.94	22.30	52.21	15.44	36.26	7.24	7.16	6.80	39.56	0.00	1.00	(ON)/Shutdown/
	Max	18.89	18.59	95.00	1026.88	1103.91	5.01	37.26	54.61	30.71	45.09	7.52	7.96	6.80	40.18	0.00	3.00	Off/Preheat
1/2/2024	Averager	12.62	1.96	72.71	898.54	1042.09	5.00	32.84	53.21	20.38	43.16	7.47	7.45	6.80	39.98	0.00	2.54	Preheat/Normal
	Min	11.50	0.00	0.00	609.07	510.83	4.90	23.37	52.22	16.10	38.94	7.24	7.01	6.73	39.68	0.00	1.00	(ON)/Shutdown/
	Max	20.37	1677.84	181.44	1026.88	1106.90	5.01	37.35	54.61	30.71	45.51	7.67	8.61	6.80	40.18	0.00	4.00	Off/Preheat
1/3/2024	Averager	12.69	2.51	59.08	922.45	1054.37	5.06	36.17	54.01	17.84	44.49	7.29	7.70	6.80	40.23	0.00	3.57	Preheat/Normal
	Min	8.76	0.00	0.00	604.73	579.24	5.00	23.44	52.76	15.06	39.03	7.25	7.12	6.73	39.77	0.00	1.00	(ON)/Shutdown/
	Max	20.30	2124.10	119.21	1049.88	1134.02	5.17	39.98	55.06	29.35	46.63	7.38	8.61	6.80	40.78	0.00	4.00	Off/Preheat
1/4/2024	Averager	13.29	1.95	56.70	938.50	1053.00	5.01	35.54	53.67	18.13	43.32	7.75	7.54	6.80	39.96	0.00	4.69	Preheat/Normal
	Min	8.82	0.00	-7.70	699.27	526.79	4.99	25.19	52.22	16.59	38.10	7.18	7.13	6.79	30.44	0.00	1.00	(ON)/Shutdown/
	Max	20.37	308.14	128.56	1034.34	1126.83	5.11	37.21	57.22	32.04	45.15	9.36	8.29	6.80	40.97	0.00	6.00	Off/Preheat
1/5/2024	Averager	13.16	3.31	43.75	961.06	1063.46	5.00	35.98	54.18	18.20	43.90	8.19	8.01	6.80	38.63	0.00	4.39	Preheat/Normal
	Min	10.26	0.00	-11.00	634.50	908.08	4.90	23.82	51.76	11.53	36.52	7.71	7.51	6.78	30.78	0.00	2.00	(ON)/Shutdown/
	Max	20.00	320.87	113.89	1051.35	1093.31	5.11	40.63	54.55	29.91	46.92	9.43	8.77	6.80	40.47	0.00	6.00	Off/Preheat
1/6/2024	Averager	12.67	0.51	39.37	929.27	1063.28	5.00	35.79	54.41	18.62	40.53	7.94	8.18	6.80	38.89	0.00	2.49	Preheat/Normal
	Min	10.65	0.00	-5.50	625.76	933.32	4.93	23.39	53.73	15.23	35.76	7.51	7.64	6.73	38.62	0.00	1.00	(ON)/Shutdown/
	Max	20.00	214.81	92.73	1072.84	1100.20	5.02	39.22	55.50	30.37	42.64	8.53	8.77	6.80	39.64	0.00	4.00	Off/Preheat
1/7/2024	Averager	12.64	1.61	35.88	984.30	1065.51	5.00	35.40	54.38	18.98	43.01	7.89	7.91	6.80	38.74	0.00	4.98	Preheat/Normal
	Min	10.51	0.00	16.01	622.16	991.39	4.99	27.35	54.07	16.80	37.88	7.34	7.33	6.80	38.54	0.00	2.00	(ON)
	Max	15.48	810.96	92.77	1089.30	1090.86	5.01	37.65	54.56	26.95	44.14	8.41	8.72	6.80	38.87	0.00	6.00	
1/8/2024	Averager	13.30	1.96	37.83	902.62	1044.33	5.05	34.72	53.23	18.51	40.53	7.59	7.85	6.80	38.93	0.00	4.46	Normal(ON)/Shut
	Min	10.84	0.00	0.00	594.53	588.17	4.99	23.49	47.20	10.30	26.67	7.19	7.22	6.79	28.33	0.00	0.00	down/Off/Preheat
	Max	20.37	901.51	91.68	1089.26	1092.36	5.19	39.61	54.38	27.49	43.77	9.40	8.57	6.80	40.22	0.00	9.00	/Normal(ON)
1/9/2024	Averager	12.70	3.62	42.37	1037.37	1063.89	5.07	35.75	52.95	17.20	40.49	7.63	7.35	6.80	38.96	0.00	1.73	Normal(ON)/Shut
	Min	11.21	0.00	-1.01	718.96	731.57	5.00	24.96	50.23	13.91	33.70	7.28	7.00	6.80	36.20	0.00	1.00	down/Off/Preheat
	Max	20.36	1283.19	102.72	1138.41	1117.39	5.30	39.26	54.29	25.45	43.20	8.35	8.22	6.80	39.37	0.00	3.00	
1/10/2024	Averager	12.96	5.79	40.63	979.81	1058.13	5.16	34.10	52.43	18.32	42.02	7.69	7.54	6.80	38.66	0.00	2.23	Normal(ON)/Shut
	Min	9.78	0.00	-11.00	657.33	616.51	4.99	22.89	50.37	14.20	33.56	7.10	7.13	6.79	35.99	0.00	1.00	down/Off/Preheat
	Max	20.37	620.42	113.86	1127.48	1132.13	5.60	39.91	54.60	28.06	44.58	8.35	8.34	6.80	39.93	0.00	3.00	
1/11/2024	Averager	12.57	0.59	60.97	1004.64	1066.72	5.05	36.12	52.80	16.68	43.93	8.13	7.90	6.72	38.57	0.00	3.73	Preheat/Normal(O
	Min	10.06	0.00	12.42	643.78	991.24	5.00	22.76	50.43	13.77	36.11	7.12	7.30	6.69	36.11	0.00	1.00	N)
	Max	14.71	6.18	169.21	1076.65	1091.53	5.13	39.33	54.12	28.20	47.00	8.76	8.57	6.80	40.82	0.00	5.00	
1/12/2024	Averager	13.38	0.62	56.65	874.14	1051.24	5.03	32.98	52.91	19.94	40.74	7.99	8.48	6.70	37.61	0.00	4.32	Normal(ON)/Shut
	Min	8.88	0.00	0.00	664.45	715.57	4.99	23.40	50.31	16.26	34.29	7.49	8.16	6.70	25.27	0.00	0.00	down/Off
	Max	20.37	425.46	117.10	988.81	1119.29	5.27	37.12	56.56	31.15	44.50	8.62	8.97	6.70	42.14	0.00	6.00	
1/13/2024	Averager	12.59	0.82	55.14	888.22	1019.53	5.11	36.56	52.51	15.95	38.16	8.25	7.69	6.77	36.37	0.00	1.71	Off/Preheat/Norm
	Min	8.03	0.00	0.00	521.55	434.82	4.99	23.40	41.69	-7.94	19.76	7.33	7.17	6.70	13.27	0.00	0.00	al(ON)
	Max	20.33	446.97	116.70	1021.57	1091.56	5.44	49.69	54.62	31.14	44.10	10.50	8.30	6.80	40.29	0.00	3.00	
1/14/2024	Averager	13.26	3.44	51.45	960.74	1061.32	5.00	35.28	54.49	19.21	42.80	7.74	8.01	6.79	38.14	0.00	2.87	Normal(ON)/Shut
	Min	10.03	0.00	-11.00	618.50	929.81	4.97	22.31	54.04	14.46	37.84	7.33	7.35	6.70	36.01	0.00	1.00	down/Off/Preheat
	Max	20.00	446.95	122.79	1075.45	1091.89	5.01	40.10	56.66	34.35	45.81	8.36	8.62	6.80	39.91	0.00	4.00	/Normal(ON)
1/15/2024	Averager	12.95	1.51	60.48	916.88	1065.30	5.00	35.23	54.57	19.34	42.36	7.56	8.14	6.78	39.23	0.00	3.97	Normal(ON)/Shut
	Min	9.40	0.00	-9.90	616.98	960.56	4.98	22.05	54.33	15.14	37.82	7.25	7.66	6.70	38.20	0.00	1.00	down
	Max	20.00	663.95	150.77	1018.61	1086.00	5.27	39.35	56.75	34.69	45.16	8.35	8.65	6.80	39.72	0.00	5.00	
1/16/2024	Averager	13.34	4.02	37.17	1020.25	1038.92	5.03	35.61	53.92	18.31	39.96	7.63	8.38	6.80	38.71	0.00	2.25	Shutdown/Off/Pre
	Min	10.53	0.00	-11.00	626.69	534.80	4.96	30.38	49.63	13.44	29.76	7.26	8.00	6.78	27.58	0.00	0.00	heat/Normal(ON)
	Max	20.37	883.07	91.41	1155.65	1102.52	5.25	40.47	54.81	24.04	43.02	8.64	8.79	6.80	40.77	0.00	5.00	
1/17/2024	Averager	12.74	2.86	64.56	1056.15	1073.21	5.09	36.70	54.52	17.82	41.79	7.45	7.98	6.80	40.27	0.00	2.20	Normal(ON)
	Min	10.89	0.00	20.04	962.57	1017.80	5.00	31.54	52.74	14.47	39.89	7.19	7.75	6.80	39.75	0.00	2.00	
	Max	15.36	959.50	178.14	1127.73	1150.26	5.30	39.58	55.82	22.32	44.26	7.77	8.29	6.80	40.54	0.00	3.00	

Januray 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
1/18/2024	Averager	13.42	1.32	49.62	904.02	1054.72	5.01	34.99	53.42	18.43	41.11	7.67	8.12	6.80	37.29	0.00	2.99	Normal(ON)/Shutdown/Off/Preheat/Normal(ON)/Shutdown
	Min	10.70	0.00	0.00	667.00	786.53	4.98	27.36	51.16	14.21	33.66	7.29	7.68	6.80	29.51	0.00	1.00	
	Max	20.37	483.42	149.03	1035.50	1099.29	5.07	38.83	54.73	27.27	44.68	8.34	8.63	6.80	40.03	0.00	4.00	
1/19/2024	Averager	13.71	1.53	36.92	921.72	1022.01	5.01	36.18	52.77	16.59	37.47	7.61	7.94	6.80	37.10	0.00	1.17	Shutdown/Off/Preheat/Normal(ON)
	Min	8.95	0.00	-11.00	498.25	358.51	4.90	19.44	41.04	-4.51	22.61	7.32	7.75	6.78	17.06	0.00	0.00	
	Max	20.33	38.50	85.96	1053.69	1090.27	5.12	45.56	54.61	35.00	41.73	8.84	8.41	6.80	40.36	0.00	4.00	
1/20/2024	Averager	14.91	1.27	20.63	768.56	975.68	5.08	37.14	51.06	13.93	31.16	7.51	8.11	6.80	31.45	0.00	0.71	Normal(ON)/Shutdown/Off/Preheat/Normal(ON)
	Min	7.15	0.00	0.00	359.52	675.22	4.65	20.81	36.09	-37.38	5.29	7.19	7.56	6.80	0.05	0.00	0.00	
	Max	20.39	634.00	65.03	1038.73	1088.64	5.51	74.49	63.72	26.45	41.65	8.11	8.44	6.81	42.75	0.00	1.00	
1/21/2024	Averager	12.39	2.36	36.19	1055.61	1072.82	5.16	33.86	49.97	16.10	41.91	7.54	7.84	6.80	41.28	0.00	1.44	Normal(ON)
	Min	10.82	0.00	11.60	961.53	997.77	5.00	30.02	48.59	12.75	39.20	6.88	7.33	6.80	38.83	0.00	1.00	
	Max	14.67	607.48	76.02	1104.47	1131.28	5.51	39.87	52.95	18.57	46.29	7.91	8.08	6.80	43.02	0.00	2.00	
1/22/2024	Averager	12.86	1.44	54.69	1057.17	1062.21	5.01	32.07	48.42	16.35	40.79	8.07	7.62	6.80	40.65	0.00	1.93	Normal(ON)
	Min	10.98	0.00	14.18	905.39	996.31	5.00	25.74	45.22	13.49	37.44	7.58	7.23	6.80	39.21	0.00	1.00	
	Max	14.91	320.82	138.19	1147.46	1123.28	5.03	35.79	51.14	21.25	43.25	8.58	8.09	6.80	42.01	0.00	2.00	
1/23/2024	Averager	15.82	2.06	23.19	801.12	850.57	5.15	39.39	42.76	3.37	29.95	7.92	7.29	6.80	28.15	0.00	1.29	Normal(ON)/Shutdown/Off/Preheat/Normal(ON)
	Min	9.47	0.00	0.00	435.73	236.28	4.99	21.04	20.46	-43.39	6.04	7.18	7.04	6.80	0.03	0.00	0.00	
	Max	20.41	277.27	98.87	1084.89	1089.44	5.72	67.93	51.24	27.99	43.53	9.46	7.90	6.80	41.75	0.00	5.00	
1/24/2024	Averager	12.81	0.58	39.51	921.52	1051.89	5.03	29.62	48.22	18.60	35.97	8.52	7.36	6.80	39.24	0.00	1.00	Normal(ON)
	Min	9.65	0.00	7.75	590.16	960.07	5.00	22.02	46.65	11.48	31.71	7.28	7.08	6.80	38.66	0.00	1.00	
	Max	15.67	101.63	113.20	1108.92	1091.63	5.10	38.00	49.76	26.40	40.48	10.21	7.78	6.80	39.95	0.00	1.00	
1/25/2024	Averager	12.69	0.37	46.35	1085.83	1050.44	5.09	30.98	47.51	16.54	38.64	8.87	7.32	6.80	38.76	0.00	1.11	Normal(ON)
	Min	9.76	0.00	16.95	973.73	997.06	5.00	27.82	45.86	13.55	37.10	7.75	7.20	6.80	35.30	0.00	1.00	
	Max	14.91	11.01	150.69	1192.77	1083.87	5.26	34.17	48.71	19.80	41.08	9.94	7.47	6.80	40.76	0.00	2.00	
1/26/2024	Averager	15.73	0.52	37.83	868.67	793.29	5.48	42.49	41.45	-1.04	30.18	10.83	7.40	6.81	27.63	0.00	1.22	Normal(ON)/Shutdown/Off
	Min	10.92	0.00	0.00	349.74	184.71	5.00	22.69	21.95	-42.88	8.34	8.61	7.13	6.75	0.10	0.00	0.00	
	Max	20.41	139.63	142.16	1188.59	1124.06	6.89	70.39	49.48	24.82	41.39	13.47	7.61	6.90	40.98	0.00	2.00	
1/27/2024	Averager	20.25	0.00	0.00	194.54	114.21	7.16	54.32	20.82	-33.50	8.80	13.92	7.78	6.70	0.09	0.00	0.00	Off
	Min	20.07	0.00	0.00	108.93	77.23	6.89	17.88	18.58	-45.52	7.78	13.47	7.50	6.70	0.08	0.00	0.00	
	Max	20.42	0.00	0.00	349.35	184.72	7.20	66.73	22.04	0.70	10.50	14.00	8.20	6.75	0.10	0.00	0.00	
1/28/2024	Averager	20.26	0.00	0.00	76.64	57.33	6.81	29.97	20.00	-9.96	9.97	5.13	8.48	6.66	0.07	0.00	0.00	Off
	Min	20.10	0.00	0.00	54.53	43.63	6.70	16.67	17.49	-44.38	8.46	0.00	8.20	6.60	0.02	0.00	0.00	
	Max	20.40	0.00	0.00	108.86	77.22	7.08	70.71	26.56	1.08	11.88	14.00	8.93	6.70	0.10	0.00	0.00	
1/29/2024	Averager	20.25	0.00	0.00	137.36	219.18	6.78	59.20	25.54	-33.66	11.28	0.00	8.99	6.60	0.04	0.00	0.00	Off
	Min	20.07	0.00	0.00	37.91	32.22	6.70	17.78	14.92	-43.48	4.72	0.00	8.89	6.60	0.00	0.00	0.00	
	Max	20.44	0.00	0.00	452.37	762.50	6.90	73.66	34.86	0.80	16.40	0.00	9.21	6.60	0.08	0.00	0.00	
1/30/2024	Averager	16.13	0.00	11.29	379.55	623.11	5.85	43.01	28.52	-14.48	17.88	3.54	8.48	6.65	17.28	0.00	0.34	Off/Preheat/Shutdown/Preheat
	Min	8.51	0.00	0.00	114.79	89.17	4.87	17.09	15.06	-45.85	5.01	0.00	6.44	6.60	0.00	0.00	0.00	
	Max	20.43	1.72	42.40	631.73	1065.90	6.70	68.21	41.41	24.28	33.89	11.25	11.53	6.78	38.86	0.00	1.00	
1/31/2024	Averager	14.17	0.04	37.91	766.29	1010.77	5.11	31.86	44.21	12.35	33.46	8.09	7.27	6.79	33.01	0.00	1.00	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	8.73	0.00	0.00	506.11	771.74	4.98	22.42	37.63	-8.10	16.52	0.66	6.40	6.73	11.44	0.00	0.00	
	Max	20.39	2.91	113.64	944.87	1086.32	5.37	47.78	48.25	24.17	42.28	8.85	7.52	6.81	40.38	0.00	2.00	



January 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-Jan-24	501.80	502.40	504.40	511.80	501.00	572.70	523.90	610.50	612.80	609.00	612.30	616.40	602.60	602.00	542.20	599.40	506.20	468.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	235456.8
02-Jan-24	601.20	601.80	600.40	604.40	604.40	657.50	670.00	516.30	559.00	555.20	550.40	553.40	557.70	551.90	551.20	569.90	582.40	112.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
03-Jan-24	619.60	558.00	514.40	522.40	505.80	628.70	334.10	376.00	551.30	551.80	554.20	493.50	558.80	553.00	553.80	557.40	574.80	602.10	390.30	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
04-Jan-24	591.80	598.30	553.00	552.00	541.20	626.30	360.00	502.50	554.20	553.20	551.80	551.30	550.10	550.90	579.30	573.20	592.20	618.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
05-Jan-24	508.90	504.70	506.60	509.20	506.70	510.90	517.60	549.10	555.40	551.90	551.90	549.70	553.20	553.20	553.40	550.70	553.40	552.60	360.90	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
06-Jan-24	603.00	600.10	602.00	601.60	602.90	602.20	643.10	559.30	560.00	564.00	567.90	572.90	558.90	539.90	557.70	568.80	552.50	143.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
07-Jan-24	565.70	602.00	580.50	523.70	520.00	649.20	361.20	510.00	501.00	503.80	404.40	507.50	508.80	519.90	505.00	300.40	209.10	303.20	230.60	600.70	593.30	0.00	0.00	0.00	0.00	10000.0	
08-Jan-24	504.00	500.90	508.70	506.00	0.00	514.60	298.40	272.40	328.20	0.00	0.00	0.00	0.00	461.70	561.40	553.80	555.40	604.70	624.30	603.30	602.10	601.10	609.60	559.50	9770.1		
09-Jan-24	504.20	559.50	513.40	602.70	574.70	560.40	604.40	552.60	551.60	552.40	552.40	551.90	551.00	550.80	551.80	553.00	553.40	559.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
10-Jan-24	602.90	600.70	607.80	601.20	607.10	608.60	613.80	551.30	560.70	557.00	553.00	552.10	554.70	550.40	553.20	554.10	633.80	137.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
11-Jan-24	601.20	600.90	600.80	601.40	605.60	604.10	626.20	562.50	554.80	520.90	254.20	343.30	536.40	80.60	490.00	423.10	500.90	408.60	500.80	583.70	0.00	0.00	0.00	0.00	0.00	10000.0	
12-Jan-24	551.30	563.50	557.40	589.60	575.00	606.00	403.50	321.70	567.60	552.40	347.60	565.60	558.40	603.20	0.00	0.00	0.00	0.00	0.00	588.10	152.80	0.00	0.00	0.00	0.00	8103.7	
13-Jan-24	0.00	0.00	118.80	557.80	584.40	531.90	502.80	516.20	500.40	500.10	502.70	507.10	502.00	501.20	504.00	516.40	503.90	509.20	500.40	635.90	656.20	348.60	0.00	0.00	0.00	10000.0	
14-Jan-24	604.20	606.60	605.00	602.10	601.60	611.60	616.20	601.20	607.80	0.00	0.00	605.60	651.60	652.00	639.60	653.00	580.20	607.00	154.70	0.00	0.00	0.00	0.00	0.00	0.00	10000.0	
15-Jan-24	600.80	605.40	601.80	601.40	602.00	616.00	331.00	0.00	48.80	0.00	0.00	352.30	551.80	558.60	551.50	551.40	552.90	559.90	557.70	506.20	502.40	453.30	294.80	0.00	0.00	10000.0	
16-Jan-24	0.00	0.00	0.00	0.00	67.90	554.10	551.50	351.20	354.40	350.10	352.80	370.60	321.10	302.60	303.00	306.50	301.40	311.50	302.90	300.10	305.60	528.30	501.70	482.00	7219.3		
17-Jan-24	502.60	503.60	519.70	500.60	499.60	503.00	503.10	507.10	509.20	502.30	510.10	515.30	506.00	521.70	515.30	508.60	508.30	502.60	562.30	299.00	0.00	0.00	0.00	0.00	0.00	10000.0	
18-Jan-24	503.80	503.80	507.20	510.00	506.00	507.50	474.30	504.80	524.30	399.30	0.00	0.00	0.00	0.00	500.70	601.80	599.30	603.60	605.70	609.00	501.60	659.30	0.00	0.00	0.00	9622.0	
19-Jan-24	0.00	0.00	0.00	0.00	0.00	567.80	668.20	602.10	554.40	554.40	552.40	565.40	550.20	554.70	552.80	551.40	551.00	552.20	551.90	551.40	564.30	635.80	319.60	0.00	0.00	10000.0	
20-Jan-24	300.20	307.60	301.20	303.00	305.40	311.00	302.50	0.00	0.00	0.00	0.00	173.80	300.10	0.00	0.00	0.00	0.00	0.00	107.80	501.80	506.10	501.40	500.70	219.80	4942.4		
21-Jan-24	600.10	600.40	603.40	603.60	603.00	600.40	470.30	455.60	304.70	308.30	302.10	310.10	300.60	500.20	305.00	304.20	307.80	303.40	482.90	501.20	367.30	543.10	322.30	0.00	0.00	10000.0	
22-Jan-24	238.20	225.80	238.20	239.20	214.60	220.20	218.60	160.50	301.80	301.80	510.70	504.20	503.80	503.00	503.40	503.40	501.40	516.90	521.20	632.40	619.90	624.50	635.90	560.40	10000.0		
23-Jan-24	505.00	507.60	502.10	504.80	513.70	271.60	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	6.50	0.00	413.60	3224.9		
24-Jan-24	554.60	554.60	550.80	552.50	321.30	361.20	364.70	352.60	300.80	300.70	308.40	303.00	299.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	203.60	204.80	231.70	234.50	5999.0		
25-Jan-24	225.70	203.40	242.00	269.30	245.50	255.60	250.90	302.90	304.80	302.30	308.50	312.00	302.40	302.20	305.20	353.20	255.70	207.20	210.60	203.40	220.00	208.30	207.20	200.80	6199.1		
26-Jan-24	502.90	503.80	518.30	529.40	508.60	512.00	524.20	520.40	408.60	405.60	501.90	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	5435.7	
27-Jan-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	0.0	
28-Jan-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	0.0	
29-Jan-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	0.0	
30-Jan-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	236.40	0.00	0.00	0.00	0.00	0.00	236.4	
31-Jan-24	509.20	511.40	503.10	514.00	513.20	0.00	0.00	0.00	0.00	0.00	0.00	332.80	507.20	503.10	509.80	300.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4704.2	

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
1/7/2024	18:30	23:00	04:30	Normal	12.3	14.2	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
1/8/2024	5:30	10:00	04:30	Normal	21.6	24.9	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
1/9/2024	9:30	14:00	04:30	Normal	8.6	9.9	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
1/10/2024	15:00	17:00	02:00	Normal	10.7	12.3	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
1/18/2024	8:30	12:00	03:30	Normal	9.7	11.2	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.

Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
1/2/2024	18:49	20:00	01:11	Shutdown	955	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
1/6/2024	18:34	19:27	00:53	Shutdown	964	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
1/14/2024	18:32	19:14	00:42	Shutdown	957	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
1/31/2024	19:45	21:11	01:26	Shutdown	883	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. 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
1/23/2024	11:47:00	14:37:00	2:50:00	Shutdown	13.4		Atomizer amperage dropped during shutdown process due to lack of water pressure.	The incinerator was brought to a controlled shutdown.



February 2024 Incineration Averages 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
2/1/2024	Average	13.80	0.31	40.03	766.99	1010.88	5.26	31.65	46.40	14.75	35.01	7.44	7.15	6.84	33.45	0.00	0.95	Preheat/Normal(ON)
	Min	10.05	0.00	0.00	581.75	825.09	4.99	14.27	30.21	-33.27	10.20	6.00	6.51	6.80	0.10	0.00	0.00	
	Max	20.41	124.20	125.88	1057.52	1090.48	5.92	63.63	53.57	31.80	45.94	8.66	7.50	6.90	40.84	0.00	2.00	
2/2/2024	Average	13.01	5.82	44.03	1029.31	1074.37	5.04	32.81	51.71	18.90	43.09	7.08	7.49	6.82	39.00	0.00	2.93	Normal(ON)/Shutdown/Off/Preheat
	Min	10.30	0.00	-15.40	818.58	863.94	4.99	16.22	48.92	15.58	36.78	5.12	7.20	6.80	38.63	0.00	1.00	
	Max	20.30	1004.92	98.27	1102.85	1127.07	5.25	36.15	53.32	36.55	44.62	7.63	10.17	6.90	39.25	0.00	4.00	
2/3/2024	Average	12.75	1.66	49.87	1014.50	1067.75	5.00	31.84	51.29	19.46	42.11	7.47	7.16	6.80	39.40	0.00	4.01	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	10.01	0.00	-14.30	781.10	830.94	4.80	15.18	49.77	15.98	36.31	5.77	7.00	6.80	39.25	0.00	1.00	
	Max	20.30	507.00	124.11	1080.29	1093.91	5.01	35.25	53.11	37.89	43.91	8.07	7.28	6.84	39.62	0.00	6.00	
2/4/2024	Average	12.71	0.55	51.90	1008.92	1069.55	5.00	32.11	51.02	18.91	40.72	7.50	7.59	6.82	38.62	0.00	5.58	Preheat/Normal(ON)/Shutdown
	Min	10.56	0.00	-12.10	852.58	994.09	5.00	21.04	49.29	15.56	36.22	7.14	7.12	6.80	37.55	0.00	2.00	
	Max	20.00	181.91	138.54	1064.48	1110.13	5.02	35.43	52.94	30.75	42.71	8.17	8.26	6.90	40.25	0.00	8.00	
2/5/2024	Average	12.65	2.52	57.18	1002.93	1049.24	5.02	32.44	49.90	17.46	36.47	7.54	7.28	6.80	38.52	0.04	0.97	Shutdown/Off/Preheat/Normal(ON)
	Min	9.41	0.00	-3.30	746.30	538.73	4.99	20.80	44.25	11.30	26.75	6.98	7.03	6.80	23.63	0.00	0.00	
	Max	20.37	900.96	180.54	1066.53	1095.91	5.15	43.70	55.00	29.46	42.28	7.94	7.44	6.80	40.47	0.30	4.00	
2/6/2024	Average	12.29	4.61	44.76	1073.85	1065.22	5.01	31.05	48.77	17.71	37.65	7.14	7.22	6.80	39.93	0.00	1.49	Normal(ON)/Shutdown/Off/Preheat
	Min	5.30	0.00	0.00	864.43	872.37	4.95	12.22	46.11	12.02	30.56	7.00	6.90	6.80	39.85	0.00	0.00	
	Max	20.35	976.12	122.24	1108.23	1104.88	5.18	38.10	51.97	39.74	42.12	7.24	8.13	6.87	40.13	0.00	2.00	
2/7/2024	Average	12.84	3.06	59.46	1022.18	1058.89	5.01	29.84	49.64	19.80	38.83	7.17	7.29	6.80	39.99	0.00	2.12	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	10.21	0.00	-7.70	695.43	808.04	4.84	13.35	44.06	11.11	31.32	6.97	7.02	6.80	39.74	0.00	0.00	
	Max	20.37	825.28	144.09	1196.11	1136.12	5.17	37.92	53.57	40.22	43.56	7.53	7.50	6.87	40.18	0.00	4.00	
2/8/2024	Average	12.83	1.57	65.68	947.84	1052.69	5.11	30.89	50.06	19.18	40.88	7.09	7.31	6.81	39.92	0.00	2.95	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	9.32	0.00	0.00	687.17	761.77	4.84	13.48	44.78	13.99	33.23	6.90	7.07	6.80	39.59	0.00	0.00	
	Max	20.37	925.43	191.54	1107.78	1107.37	5.40	38.75	53.53	40.05	45.02	7.53	7.53	6.87	40.24	0.00	5.00	
2/9/2024	Average	12.04	1.91	58.23	906.88	1055.01	5.68	32.51	51.25	18.74	42.43	7.01	7.26	6.80	38.77	0.00	3.18	Preheat/Normal(ON)/Shutdown
	Min	9.08	0.00	6.56	600.60	948.31	4.98	12.78	47.22	12.73	35.43	6.96	7.00	6.80	36.96	0.00	0.00	
	Max	15.17	595.95	149.63	1018.62	1104.37	6.12	42.01	55.31	38.89	47.59	7.10	7.78	6.81	40.13	0.00	5.00	
2/10/2024	Average	12.88	5.68	55.99	920.93	1046.16	5.28	27.49	49.09	21.60	40.19	7.00	7.24	6.80	39.48	0.00	3.44	Shutdown/Off/Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	9.13	0.00	-7.70	733.24	835.16	5.00	13.31	46.61	16.81	34.82	6.98	7.00	6.80	38.77	0.00	1.00	
	Max	20.36	1049.00	126.39	1022.73	1125.31	5.93	32.51	51.40	36.45	42.89	7.15	7.35	6.80	40.65	0.00	5.00	
2/11/2024	Average	13.35	2.68	66.05	889.70	1050.43	5.03	27.66	48.48	20.82	38.18	7.10	7.28	6.81	38.62	0.00	3.75	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	8.22	0.00	-17.60	648.12	766.27	5.00	13.13	44.08	7.96	25.68	6.99	7.16	6.80	21.39	0.00	0.00	
	Max	20.37	477.25	135.12	986.55	1143.62	5.26	36.26	50.65	36.29	41.89	7.29	7.40	6.89	40.85	0.00	6.00	
2/12/2024	Average	12.05	0.90	46.83	924.08	1054.80	5.00	27.91	48.78	20.87	37.11	7.08	7.25	6.81	38.00	0.00	2.40	Preheat/Normal(ON)/Shutdown/Off/Preheat
	Min	8.71	0.00	0.00	627.50	937.44	4.98	16.33	45.37	11.70	25.86	6.97	6.99	6.80	23.95	0.00	0.00	
	Max	20.27	386.46	109.61	1015.70	1092.99	5.21	33.67	50.22	33.53	39.29	7.20	7.37	6.87	40.38	0.00	3.00	
2/13/2024	Average	13.76	5.40	55.40	919.05	969.33	5.05	28.84	47.64	18.80	36.07	7.33	7.27	6.80	36.28	0.00	2.49	Preheat/Normal(ON)/Shutdown/Off
	Min	9.53	0.00	-7.70	550.82	351.10	4.96	17.42	26.96	-21.16	5.60	6.60	6.99	6.76	0.09	0.00	0.00	
	Max	20.37	1133.10	145.66	1016.32	1108.87	5.48	51.48	51.11	31.49	41.08	8.73	8.22	6.81	40.10	0.00	4.00	
2/14/2024	Average	20.25	0.00	0.00	319.58	300.02	6.06	17.55	17.22	-0.33	4.79	8.77	7.74	6.72	0.02	0.00	0.00	Off/Preheat/Shutdown/Off
	Min	20.08	0.00	0.00	150.50	111.11	5.41	13.19	14.29	-18.09	1.22	8.42	7.50	6.70	0.00	0.00	0.00	
	Max	20.42	0.00	0.00	549.37	653.11	6.40	44.98	26.88	1.51	10.94	8.80	7.90	6.79	0.09	0.00	0.00	
2/15/2024	Average	20.25	0.00	0.00	302.57	257.75	5.46	14.30	15.52	1.23	7.02	8.50	7.96	5.82	0.04	0.00	0.00	Off/Preheat/Shutdown/Off
	Min	20.07	0.00	0.00	122.36	56.47	3.72	9.85	11.16	0.53	0.73	8.15	7.88	5.28	0.00	0.00	0.00	
	Max	20.41	0.00	0.00	530.01	643.19	6.40	19.44	21.57	2.12	19.44	8.80	8.10	6.70	0.12	0.00	0.00	
2/16/2024	Average	20.25	0.00	0.00	73.71	41.36	6.32	19.43	21.53	2.10	19.15	8.20	7.93	5.12	0.05	0.00	0.00	Off
	Min	20.07	0.00	0.00	48.69	32.79	5.83	18.89	21.04	1.88	18.25	8.10	7.90	5.00	0.00	0.00	0.00	
	Max	20.42	0.00	0.00	122.23	58.30	6.60	20.00	22.22	2.22	20.00	8.30	8.00	5.30	0.09	0.00	0.00	
2/17/2024	Average	20.25	0.00	0.00	34.34	26.62	6.57	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	Off
	Min	20.09	0.00	0.00	24.01	20.56	6.50	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	
	Max	20.40	0.00	0.00	48.67	32.79	6.60	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	
2/18/2024	Average	20.25	0.00	0.00	21.83	19.02	6.31	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	Off
	Min	20.07	0.00	0.00	21.11	18.32	6.20	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	
	Max	20.44	0.00	0.00	24.01	20.56	6.50	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	0.00	



February 2024 Incineration Averages 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
2/19/2024	Average	20.25	0.00	0.00	20.66	19.11	6.12	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	Off
	Min	20.05	0.00	0.00	20.16	18.33	6.10	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
	Max	20.43	0.00	0.00	21.18	20.00	6.20	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
2/20/2024	Average	20.25	0.00	0.00	21.59	21.65	6.29	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	Off
	Min	20.07	0.00	0.00	20.46	19.52	6.10	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
	Max	20.42	0.00	0.00	22.75	23.08	6.42	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
2/21/2024	Average	20.24	0.00	0.00	21.54	24.25	6.64	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	Off
	Min	20.09	0.00	0.00	20.63	22.50	6.42	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
	Max	20.41	0.00	0.00	22.15	25.56	6.70	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
2/22/2024	Average	20.25	0.00	0.00	22.70	25.42	6.85	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	Off
	Min	20.09	0.00	0.00	21.43	23.33	6.70	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
	Max	20.42	0.00	0.00	23.89	27.22	6.91	20.00	22.22	2.22	20.00	8.30	7.90	5.00	0.00	0.00	
2/23/2024	Average	20.23	1.12	-0.36	153.30	274.11	5.54	18.27	20.16	1.89	16.77	8.29	7.83	5.39	1.62	0.00	Off/Preheat
	Min	20.00	0.00	-9.90	22.77	23.89	3.39	10.12	11.49	0.23	2.91	7.45	7.19	5.00	0.00	0.00	
	Max	20.42	19.80	0.00	497.13	842.50	6.90	20.00	22.22	2.43	20.00	8.51	7.90	6.87	31.93	0.00	
2/24/2024	Average	11.02	13.64	39.48	882.84	1011.62	4.96	26.92	38.08	11.15	29.18	8.08	7.32	6.85	40.00	0.00	Preheat/Normal(ON) /Shutdown
	Min	6.64	0.00	-12.10	497.61	843.53	4.23	10.24	12.69	1.49	9.65	6.99	7.00	6.80	32.14	0.00	
	Max	20.00	716.53	168.21	1006.98	1082.17	5.40	37.24	50.87	24.62	37.58	9.14	7.65	6.90	41.16	0.00	
2/25/2024	Average	10.64	2.86	49.93	943.34	1040.70	5.21	36.86	52.74	15.88	40.67	9.04	7.40	6.87	39.98	0.00	Shutdown/Off/Preheat /Normal(ON)/Shutdow n/Off/Preheat
	Min	6.48	0.00	-3.75	897.12	755.89	4.99	23.67	46.85	10.22	31.16	8.53	7.17	6.80	39.45	0.00	
	Max	20.36	669.61	98.82	1006.10	1071.30	5.47	43.02	54.51	25.32	44.08	9.31	8.17	6.90	40.42	0.00	
2/26/2024	Average	11.99	0.18	36.02	934.20	1052.03	5.31	30.49	49.84	19.35	38.85	8.55	7.62	6.86	39.94	0.00	Shutdown/Off/Preheat /Normal(ON)/Shutdow n/Off/Preheat
	Min	8.56	0.00	-5.25	794.84	883.18	5.00	18.31	44.51	12.58	34.00	7.82	7.27	6.80	39.67	0.00	
	Max	20.37	129.75	77.02	1050.63	1087.49	5.70	41.63	54.98	32.97	45.85	9.43	8.04	6.90	40.28	0.00	
2/27/2024	Average	11.99	2.01	52.14	895.79	1059.30	5.58	28.73	46.91	18.18	38.61	8.24	7.69	6.85	39.32	0.00	Preheat/Normal(ON) /Shutdown/Off/Preh eat
	Min	9.02	0.00	-5.61	798.71	725.97	5.00	20.72	45.42	8.96	34.56	7.80	7.25	6.80	31.98	0.00	
	Max	20.33	691.05	108.59	968.08	1110.63	6.31	37.01	49.27	25.50	43.00	9.27	8.56	6.90	40.20	0.00	
2/28/2024	Average	12.31	1.17	45.77	923.35	1059.45	5.64	30.70	44.61	13.90	37.98	8.04	7.67	6.83	38.67	0.00	Preheat/Normal(ON) /Shutdown/Off/Preh eat
	Min	9.54	0.00	-6.52	771.00	812.56	5.00	22.32	41.37	10.19	31.35	7.38	7.19	6.80	32.20	0.00	
	Max	20.36	796.60	129.42	1005.33	1105.73	6.48	38.70	48.89	21.25	43.89	9.46	8.49	6.89	40.67	0.00	
2/29/2024	Average	13.03	3.89	49.52	937.00	1057.82	5.01	27.05	41.85	14.79	35.00	8.39	7.53	6.81	39.21	0.00	Preheat/Normal(ON) /Shutdown/Off/Preh eat
	Min	9.79	0.00	-13.20	729.51	809.40	4.99	19.43	31.72	8.17	27.56	7.60	7.23	6.80	33.42	0.00	
	Max	20.37	592.68	174.60	1027.91	1115.19	5.13	31.61	44.40	22.57	38.58	9.50	8.26	6.86	40.14	0.00	



February 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-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00	502.90	501.90	501.40	501.60	508.40	503.90	502.90	500.40	501.70	504.10	503.10	509.30	6541.60	183392.00
02-Feb-24	505.90	606.50	562.10	556.60	554.30	571.50	556.10	602.00	602.30	608.60	602.40	606.20	601.30	605.80	602.70	626.40	511.20	118.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
03-Feb-24	552.30	555.10	553.80	553.00	552.50	552.30	553.20	506.80	551.20	501.50	512.20	431.90	555.50	569.80	568.80	560.60	553.80	551.30	264.40	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
04-Feb-24	604.40	607.20	603.00	501.70	632.20	648.70	505.10	502.60	511.90	555.40	332.10	554.50	530.60	208.00	571.60	413.30	554.00	330.90	202.80	613.60	5.60	0.00	0.00	0.00	0.00	9989.20
05-Feb-24	0.00	0.00	400.70	606.00	508.40	510.40	326.90	330.90	558.00	552.10	325.80	561.00	556.40	379.90	558.30	550.20	553.40	551.90	569.90	461.90	515.00	453.80	169.10	0.00	0.00	10000.00
06-Feb-24	504.90	500.60	483.80	525.30	488.60	502.70	317.80	551.30	556.50	555.80	553.10	552.50	551.00	552.00	559.00	626.40	621.80	621.90	375.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
07-Feb-24	559.40	553.80	551.80	559.90	553.60	554.60	551.50	551.60	557.30	550.90	555.80	555.40	551.40	554.30	549.80	557.70	627.60	503.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
08-Feb-24	553.90	553.50	556.90	552.10	600.90	554.70	552.20	523.90	366.10	511.40	507.40	521.50	412.90	460.10	524.20	605.40	597.00	602.30	443.60	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
09-Feb-24	201.70	580.80	539.40	0.00	0.00	600.70	437.90	505.60	550.80	557.10	551.90	566.60	574.10	565.10	557.90	564.20	560.90	301.10	0.00	615.00	603.60	565.60	0.00	0.00	0.00	10000.00
10-Feb-24	0.00	0.00	600.90	513.60	551.30	659.60	489.90	604.50	605.60	605.70	601.10	600.50	601.50	602.90	603.90	609.80	599.90	601.20	548.10	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
11-Feb-24	550.40	552.20	551.20	552.40	551.00	559.30	550.00	606.20	603.20	602.30	601.30	612.40	601.60	604.90	600.80	650.00	650.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
12-Feb-24	503.10	552.40	269.20	549.10	550.60	557.50	564.20	500.40	508.30	503.40	501.90	500.80	514.90	506.60	508.00	446.10	502.20	505.10	507.40	448.80	0.00	0.00	0.00	0.00	0.00	10000.00
13-Feb-24	549.30	553.30	556.20	550.60	550.40	556.20	550.20	500.40	558.00	551.90	559.50	556.40	517.20	484.80	437.90	95.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8127.30
14-Feb-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
15-Feb-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
16-Feb-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
17-Feb-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
18-Feb-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-Feb-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-Feb-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-Feb-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
22-Feb-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
23-Feb-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
24-Feb-24	0.00	506.10	35.70	500.10	508.20	562.50	506.20	501.40	181.90	512.20	259.80	0.00	510.20	509.90	516.10	418.50	415.40	424.10	434.50	556.50	550.30	324.30	0.00	0.00	0.00	8733.90
25-Feb-24	0.00	0.00	601.40	601.20	601.90	599.20	607.00	555.30	556.40	556.20	557.40	555.20	551.80	493.90	553.00	511.50	552.60	403.50	146.60	601.20	394.70	0.00	0.00	0.00	0.00	10000.00
26-Feb-24	0.00	600.10	602.50	603.40	602.40	602.20	595.40	604.20	501.30	501.80	502.20	500.40	503.60	512.90	500.60	502.60	504.70	501.40	500.00	258.30	0.00	0.00	0.00	0.00	0.00	10000.00
27-Feb-24	311.00	602.10	601.80	608.60	602.60	601.80	607.20	540.20	570.20	553.80	537.40	523.60	550.40	527.50	539.40	551.90	595.50	575.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
28-Feb-24	612.40	607.60	610.50	603.50	603.70	602.80	592.50	417.40	554.00	554.00	558.00	561.80	572.70	559.70	559.70	550.70	528.30	350.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00
29-Feb-24	600.10	608.60	604.40	603.50	607.00	611.90	316.20	502.60	552.20	550.70	550.30	550.80	550.10	552.50	552.20	555.60	551.80	579.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10000.00



Stericycle®

O2 6 minute average < 7.5

O2 < 7.5

	Start	Stop		Op.	Stack		Actions
Date	Time	Time	Duration	Mode	O2 %	Explanation	Taken
2/24/2024	10:22	10:25	00:03	Shutdown	7.1	Low O2 levels were caused by a CO spike that occurred during the shutdown cycle.	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
2/6/2024	5:01	9:00	03:59	Normal	9.2	10.6	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/7/2024	8:30	13:00	04:30	Normal	10.5	12.1	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/8/2024	11:00	14:00	03:00	Normal	8.3	9.6	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/13/2024	15:30	20:00	04:30	Normal	16.6	19.2	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/27/2024	14:30	18:00	03:30	Normal	16.4	18.9	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/28/2024	10:31	15:00	04:29	Normal	10.2	11.8	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
2/29/2024	16:31	22:00	05:29	Normal	18.2	21.0	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.

Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
2/5/2024	23:47	0:32	00:45	Normal	961	Low upper chamber temperature was caused by an incorrect flame port air setting while the incinerator was idle.	The flameport air setting was corrected. No waste was fed until the upper chamber temperature returned to the normal operating range.
2/8/2024	20:51	21:57	01:06	Shutdown	979	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
2/9/2024	5:27	5:55	00:28	Normal	977	Low upper chamber temperature was caused by an incorrect flame port air setting while the incinerator was idle.	The flameport air setting was corrected. No waste was fed until the upper chamber temperature returned to the normal operating range.
2/13/2024	16:59	17:58	00:59	Shutdown	975	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
2/13/2024	18:35	19:34	00:59	Shutdown	992	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
2/24/2024	22:50	0:29	01:39	Shutdown	989	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.



March 2024 Incineration Averages 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
3/1/2024	Average	13.11	2.70	56.04	977.35	1039.07	5.07	30.65	47.08	16.43	38.68	8.15	7.51	6.81	38.65	0.00	1.83	Preheat/Normal(On)Shutdown/Off
	Min	10.18	0.00	-14.30	714.02	469.59	4.90	19.11	29.22	9.74	26.54	7.49	7.30	6.80	28.93	0.00	0.00	Preheat
	Max	20.37	746.09	163.44	1057.51	1094.31	5.22	35.24	51.25	22.10	42.58	9.81	8.50	6.90	39.84	0.00	3.00	Preheat
3/2/2024	Average	12.27	1.44	36.56	951.97	1055.33	5.44	31.17	48.49	17.32	38.97	7.93	7.56	6.88	37.96	0.00	1.49	Preheat/Normal(On)Shutdown/Off
	Min	8.79	0.00	-4.81	750.25	689.52	5.05	24.58	42.12	11.09	30.39	7.09	7.04	6.80	28.20	0.00	0.00	Preheat
	Max	20.36	277.22	81.69	1013.03	1105.27	5.73	34.78	50.88	21.63	42.43	9.81	7.87	6.90	40.46	0.00	2.00	Preheat
3/3/2024	Average	12.59	3.18	32.90	955.40	1061.63	5.58	31.16	52.56	21.40	41.83	8.24	7.47	6.90	38.77	0.00	1.88	Preheat/Normal(On)Shutdown/Off
	Min	9.03	0.00	-10.55	775.45	925.99	5.30	23.34	50.63	17.23	35.05	7.53	7.21	6.87	33.67	0.00	1.00	Preheat
	Max	20.37	666.92	71.30	1017.74	1148.40	5.75	36.53	53.78	27.82	45.40	9.25	7.89	6.90	40.24	0.00	3.00	Preheat
3/4/2024	Average	12.47	0.40	44.25	890.44	1038.53	5.75	33.11	52.12	19.01	42.13	8.28	7.41	6.87	36.29	0.00	2.51	Preheat/Normal(On)Shutdown/Off
	Min	9.37	0.00	0.00	683.23	538.80	5.35	25.94	49.89	4.98	34.82	7.38	7.15	6.81	19.96	0.00	1.00	Preheat/Normal(On)Shutdown/Off
	Max	20.37	123.65	94.30	974.42	1086.16	6.22	45.08	54.48	25.52	47.46	9.64	7.87	6.90	39.45	0.00	4.00	Preheat/Normal(On)Shutdown/Off
3/5/2024	Average	13.17	1.57	33.14	903.79	1024.09	5.98	37.60	50.91	13.31	40.22	8.29	7.50	6.83	34.19	0.00	3.12	Normal(On)Shutdown/Off
	Min	9.06	0.00	0.00	632.35	593.37	5.59	28.37	35.56	-40.00	21.00	7.56	7.18	6.80	0.10	0.00	0.00	Preheat/Normal(On)Shutdown/Off
	Max	20.37	562.13	135.92	1023.26	1107.84	6.82	75.56	54.03	24.58	45.17	10.85	8.25	6.87	39.53	0.00	4.00	Preheat/Normal(On)Shutdown/Off
3/6/2024	Average	12.97	1.96	36.65	965.04	1048.16	5.49	30.55	50.85	20.33	40.60	7.58	7.44	6.82	38.39	0.00	4.34	Normal(On)Shutdown/Off
	Min	9.08	0.00	-6.19	710.63	835.29	4.70	12.24	42.34	0.15	26.31	7.12	7.00	6.80	17.67	0.00	0.00	Preheat
	Max	20.37	562.13	135.92	1032.62	1107.84	6.82	75.56	56.01	43.34	45.17	10.85	8.25	6.90	40.57	0.00	7.00	Preheat
3/7/2024	Average	12.95	0.42	36.56	822.53	991.31	5.23	34.74	46.66	11.92	31.63	8.53	7.44	6.84	32.71	0.00	0.79	Preheat/Normal(On)Shutdown/Off
	Min	8.91	0.00	0.00	557.27	419.99	5.00	24.88	31.26	-41.04	16.54	7.39	7.14	6.80	0.10	0.00	0.00	Preheat/Normal(On)Shutdown/Off
	Max	20.39	236.78	97.22	1005.83	1116.70	6.15	72.98	51.42	25.30	37.39	11.50	7.88	6.90	40.48	0.00	1.00	Preheat/Normal(On)Shutdown/Off
3/8/2024	Average	12.45	3.64	59.78	966.84	1057.65	5.21	28.80	50.88	22.09	39.42	7.53	7.35	6.80	39.44	0.02	1.82	Preheat/Normal(On)Shutdown/Off
	Min	10.01	0.00	-7.43	700.47	630.26	4.90	16.83	49.18	16.32	31.67	7.19	7.10	6.80	33.01	0.00	1.00	Preheat/Normal(On)Shutdown/Off
	Max	20.35	847.95	146.54	1053.19	1132.11	5.50	34.42	55.56	35.30	42.34	10.30	7.44	6.88	41.27	0.19	3.00	Preheat/Normal(On)Shutdown/Off
3/9/2024	Average	12.32	3.14	29.01	970.88	1059.55	5.43	29.20	50.71	21.51	41.17	7.78	7.40	6.86	39.70	0.00	3.31	Preheat/Normal(On)Shutdown/Off
	Min	8.11	0.00	-7.21	697.33	865.59	4.99	16.69	48.23	17.22	36.67	7.24	7.21	6.80	39.20	0.00	1.00	Preheat/Normal(On)Shutdown/Off
	Max	20.28	550.44	103.52	1053.80	1113.68	5.95	36.67	54.03	35.39	45.03	9.30	8.17	6.90	40.67	0.00	5.00	Preheat/Normal(On)Shutdown/Off
3/10/2024	Average	12.87	0.85	22.39	869.79	1043.40	5.03	27.04	48.88	21.84	36.82	8.07	7.79	6.86	38.82	0.00	4.24	Preheat/Normal(On)Shutdown/Off
	Min	8.13	0.00	-1.55	579.44	785.08	4.70	17.96	38.46	-11.85	23.33	7.18	7.25	6.80	16.67	0.00	0.00	Preheat/Normal(On)Shutdown/Off
	Max	20.37	405.96	51.19	1001.08	1111.29	5.66	50.31	50.17	31.47	40.49	10.87	8.55	6.90	41.60	0.00	7.00	Preheat/Normal(On)Shutdown/Off
3/11/2024	Average	12.47	0.47	37.68	957.52	1062.55	5.01	26.98	49.21	22.23	34.29	7.55	7.28	6.86	39.92	0.00	1.50	Normal(On)Shutdown/Off
	Min	10.37	0.00	-2.64	792.79	721.20	5.00	16.27	47.84	19.28	31.19	7.24	7.16	6.80	39.49	0.00	1.00	Preheat/Normal(On)Shutdown/Off
	Max	20.36	259.95	103.24	1040.70	1150.73	5.08	30.16	50.45	33.49	36.03	8.58	7.62	6.90	40.18	0.00	2.00	Preheat/Normal(On)Shutdown/Off
3/12/2024	Average	12.28	0.49	38.77	897.20	1055.16	5.36	27.98	49.95	21.98	37.38	7.58	7.35	6.85	39.72	0.00	1.14	Preheat/Normal(On)Shutdown/Off
	Min	8.16	0.00	-3.22	754.69	699.14	4.98	15.37	30.69	3.45	27.22	7.24	7.21	6.80	34.47	0.00	0.00	Preheat/Normal(On)Shutdown/Off
	Max	20.36	78.11	108.94	1022.41	1095.46	5.93	35.44	54.50	34.30	43.50	8.63	7.71	6.90	40.80	0.00	2.00	Preheat/Normal(On)Shutdown/Off
3/13/2024	Average	12.59	4.60	51.36	973.64	1044.35	5.73	32.58	53.40	20.81	43.11	7.27	7.41	6.81	39.54	0.00	2.05	Preheat/Normal(On)Shutdown/Off
	Min	10.07	0.00	0.00	760.24	790.54	5.37	26.66	51.79	17.80	38.38	7.08	7.25	6.80	38.55	0.00	1.00	Preheat/Normal(On)Shutdown/Off
	Max	20.29	1347.50	204.60	1034.75	1103.17	6.09	36.35	54.34	25.85	45.47	7.95	8.10	6.86	40.23	0.00	3.00	Preheat/Normal(On)Shutdown/Off
3/14/2024	Average	12.65	3.58	64.15	974.37	1066.34	5.50	32.15	52.34	20.19	42.22	7.21	7.52	6.80	39.72	0.00	3.30	Preheat/Normal(On)Shutdown/Off
	Min	9.90	0.00	-3.89	732.54	916.82	5.10	21.80	48.89	14.49	36.61	7.03	7.00	6.80	39.43	0.00	2.00	Preheat/Normal(On)Shutdown/Off
	Max	20.28	211.18	148.50	1065.37	1140.71	5.91	39.38	55.00	29.45	45.80	7.58	8.41	6.85	40.14	0.00	4.00	Preheat/Normal(On)Shutdown/Off
3/15/2024	Average	12.88	1.41	40.40	880.52	1020.78	5.47	32.67	49.81	17.14	36.30	7.14	7.52	6.83	36.11	0.00	2.95	Preheat/Normal(On)Shutdown/Off
	Min	8.95	0.00	-9.90	662.77	487.90	5.01	17.22	38.61	-3.36	24.14	7.03	7.28	6.80	11.67	0.00	0.00	Preheat/Normal(On)Shutdown/Off
	Max	20.37	27.22	116.49	1030.22	1126.98	5.81	42.24	54.12	32.22	42.01	7.70	8.60	6.90	40.23	0.00	6.00	Preheat/Normal(On)Shutdown/Off
3/16/2024	Average	12.19	2.13	51.86	1003.05	1058.83	5.27	31.86	51.92	20.06	36.25	7.23	7.49	6.82	39.17	0.00	1.14	Normal(On)Shutdown/Off
	Min	10.62	0.00	26.40	885.58	956.53	5.00	28.23	49.80	16.77	32.47	7.05	7.26	6.80	38.72	0.00	1.00	Normal(On)Shutdown/Off
	Max	15.15	615.09	125.79	1052.25	1100.66	5.69	36.15	54.04	22.39	41.52	8.13	8.05	6.88	39.42	0.00	2.00	Normal(On)Shutdown/Off
3/17/2024	Average	16.15	5.57	18.06	705.32	776.98	5.42	38.34	43.17	4.84	27.25	8.36	8.03	6.86	23.79	0.00	0.68	Off/Preheat/Normal(On)Shutdown/Off
	Min	8.25	0.00	-14.42	461.27	294.64	4.99	24.17	24.44	-40.88	10.08	7.65	7.33	6.80	0.10	0.00	0.00	Off/Preheat/Normal(On)Shutdown/Off
	Max	20.41	266.16	82.20	904.48	1087.88	6.36	72.37	53.07	25.57	39.16	9.67	8.59	6.90	39.07	0.00	2.00	Off/Preheat/Normal(On)Shutdown/Off
3/18/2024	Average	13.50	3.27	44.03	594.42	864.00	5.44	31.34	35.43	4.09	26.62	7.86	7.63	6.84	27.20	0.00	0.88	Off/Preheat/Normal(On)Shutdown/Off
	Min	7.55	0.00	-7.70	336.44	205.29	4.96	16.26	23.38	-30.72	10.08	7.09	7.11	6.80	0.10	0.00	0.00	Off/Preheat/Normal(On)Shutdown/Off
	Max	20.40	726.00	136.26	933.48	1110.76	6.80	54.40	49.32	20.45	39.67	8.80	8.52	6.90	40.57	0.00	2.00	Off/Preheat/Normal(On)Shutdown/Off

[illegible]

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
3/1/2024	15:30	20:00	04:30	Normal	38.1	44.0	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/3/2024	17:00	22:00	05:00	Normal	14.5	16.7	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/5/2024	17:31	22:00	04:29	Normal	11.6	13.4	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/6/2024	01:30	6:00	04:30	Normal	14.2	16.4	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/9/2024	20:00	0:00	04:00	Shutdown	8.3	9.6	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed at this time. The incinerator was brought to a controlled shutdown.
3/16/2024	10:00	14:00	04:00	Normal	10.2	11.8	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/18/2024	17:00	21:00	04:00	Normal	20.3	23.4	A CO spike occurred due to an incorrect flame port air setpoint.	The flame port air setting was corrected. No waste was fed until the CO levels returned to the normal operating range.
3/26/2024	19:30	0:00	04:30	Normal	12.9	14.9	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.
3/30/2024	16:00	22:00	06:00	Normal	14.2	16.4	High CO levels were due to a CO spike that occurred as the internal rams cycled	The operator monitored the CO levels. No waste was fed until the CO levels returned to the normal operating range.

Secondary Chamber Temperature < 1000°C

Date	Start Time	Stop Time	Duration	Op. Mode	Temp. °C	Explanation	Actions Taken
3/13/2024	20:16	22:47	27:01:00	Shutdown	942	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.
3/16/2024	21:44	23:02	01:18	Shutdown	982	Low upper chamber temperature was caused by an incorrect flame port air setting during shutdown.	The flameport air setting was corrected. The incinerator was brought to a controlled shutdown.