



WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY DRAFT - COMPLIANCE SUMMARY REPORT



Date 4/9/24

Plant Wheelabrator North Andover

NOTE: Emission & Process results may change after Startup, Shutdown, Malfunction data validation

Unit Unit 1
Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2					CO				Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr		
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.	4 Hr Block
4/9/2024	0	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/9/2024	1	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/9/2024	2	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/9/2024	3	5	19.3	ICF	0	ICF	52	ICF	0	IBF	0	IBCF	0	ICF	0	ICF		132	132	0.0	0.0	
4/9/2024	4	12	16.7	IBCF	55	IBCF	52	IBCF	0	IBF	0	IBCF	452	IBCF		0		132		0.0		
4/9/2024	5	0	20.0	IF	0	IF	6	IF	147	IBCF	96	IBCF	0	IF		0		132		0.0		
4/9/2024	6	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF		0		132		0.0		
4/9/2024	7	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF	113	IBCF	0	0	132	132	0.0	0.0
4/9/2024	8	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	9	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	10	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	11	0	20.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF	0	IF	0		132	132	0.0	0.0
4/9/2024	12	0	20.0	IBMF	0	IBMF	89	IBMF	0	IBF	0	IBMF	3	IBMF			0		132		0.0	
4/9/2024	13	0	19.8	IBMF	0	IBMF	73	IBMF	0	IBF	0	IBMF	0	IBMF			0		132		0.0	
4/9/2024	14	0	19.7	IBMF	0	IBMF	68	IBMF	0	IBF	0	IBMF	4	IBMF			0		132		0.0	
4/9/2024	15	19	16.0	IBCMF	48	IBCMF	41	IBCMF	0	IBF	0	IBCMF	401	IBCMF	102	IBCMF	0	0	132	132	0.0	0.0
4/9/2024	16	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	17	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	18	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	19	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF	0	IF	0		132	132	0.0	0.0
4/9/2024	20	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	21	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	22	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF			0		132		0.0	
4/9/2024	23	0	21.0	IF	0	IF	6	IF	0	IBF	0	IBF	0	IF	0	IF	0	0	132	132	0.0	0.0

Average:	4 IBCMF	11 IBCMF	0 IBCMF	see above	see above	see above		
Geometric Mean Average:								
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	OR	≥ 80% Removal Efficiency	≤ 69 ppmc 4-HR Block Average	≥ 12 lb/hr 8-HR. Block Average	≤ 345 °F 4-HR Block Average	≤ 173 klb/hr 4-HR Block Average

Status Flags

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- * - Shutdown



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Date 4/9/24

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Unit Unit 2

Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2					CO			Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr		
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.
4/9/2024	0	60	7.9		140		0		30		100		6			15		310		166.5	
4/9/2024	1	60	7.9		139		8		59		86		6			15		310		167.3	
4/9/2024	2	60	8.3		139		5		47		89		6			13		310		165.9	
4/9/2024	3	60	7.7		139		2		38		94		6	6		14		310	310	166.4	166.5
4/9/2024	4	60	7.8		142		0		21		100		7			15		310		166.3	
4/9/2024	5	60	8.0		140		0		13		100		8			15		310		165.5	
4/9/2024	6	60	8.0		140		0		11		100		8			15		310		166.6	
4/9/2024	7	60	8.2		139		0		13		96		9	8		15	15	310	310	166.2	166.1
4/9/2024	8	60	8.3		141		0		15		100		9			15		310		166.2	
4/9/2024	9	60	8.0		139		0		14		100		10			15		310		166.1	
4/9/2024	10	60	8.3		138		0		19		100		14			15		310		168.2	
4/9/2024	11	60	8.5		141		0		12		100		10	11		15		310	310	163.7	166.1
4/9/2024	12	60	7.6		139		0		13		100		9			15		310		167.3	
4/9/2024	13	60	20.7	IBM	0	IBM	4	IBM	8	IBM	48	IBM	1	IBM		15		310		167.3	
4/9/2024	14	60	9.4	IBCM	136	IBCM	0	IBCM	12	IBCM	100	IBCM	30	IBCM		15		310		167.7	
4/9/2024	15	60	10.1		138		0		18		100		9	9		14	15	310	310	168.0	167.6
4/9/2024	16	60	10.6		139		2		32		94		11			13		310		165.6	
4/9/2024	17	60	10.7		141		7		38		83		7			13		310		165.7	
4/9/2024	18	60	10.8		140		25		51		50		7			13		310		164.8	
4/9/2024	19	60	10.4		140		17		38		56		7	8		14		310	310	167.9	166.0
4/9/2024	20	60	10.5		139		12		33		65		6			13		310		166.5	
4/9/2024	21	60	10.5		140		0		23		100		7			14		310		166.8	
4/9/2024	22	60	10.6		139		0		37		100		7			14		310		164.4	
4/9/2024	23	60	10.3		141		0		29		100		6	6		15	14	310	310	166.8	166.1

Average: Geometric Mean Average:	140	0	99	OR	see above	see above	see above	
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency		≤ 69 ppmc 4-HR Block Average	≥ 12 lb/hr 8-HR. Block Average	≤ 345 °F 4-HR Block Average	≤ 173 klb/hr 4-HR Block Average

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 09-Apr-2024

Plant Wheelabrator North Andover
Unit Unit 1
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

Time (hr)	1-6 min		7-12 min		13-18 min		19-24 min		25-30 min		31-36 min		37-42 min		43-48 min		49-54 min		55-60 min		Average
0	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
1	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
2	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
3	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
4	0		0		0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
5	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
6	0	ICF	22	ICF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	2
7	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
8	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
9	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
10	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
11	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
12	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
13	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
14	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
15	0	IF	0	IF	0	IF	0		0		0	IF	0	IF	0	IF	0	IF	0	IF	0
16	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
17	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
18	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
19	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
20	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
21	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
22	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0
23	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0	IF	0

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Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	1	1	1	2	2	2	1	1	2	2	1
1	2	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	2	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	1	IC	6	IC	2	2	2	2	2	2	2
7	2		2		2	2	2	2	2	2	2
8	2		2		2	2	2	2	2	2	2
9	2		2		2	2	2	2	2	2	2
10	2		2		2	2	2	2	2	2	2
11	2		2	1	1	2	2	2	1	2	1
12	1		1	2	1	1	1	1	1	1	1
13	1		1	1	1	1	1	1	1	1	1
14	1		1	1	1	1	1	1	1	1	1
15	2		1	1	1	1	1	1	2	1	1
16	2		2	2	1	1	1	1	1	1	1
17	1		1	1	1	1	1	1	1	1	1
18	1		1	1	1	1	1	1	1	1	1
19	1		1	1	1	1	1	1	1	1	1
20	1		1	1	1	1	1	1	1	1	1
21	1		1	1	1	1	1	1	1	1	1
22	1		1	1	1	1	1	1	1	1	1
23	1		1	1	1	1	1	1	1	1	1

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