



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



Date 9/4/25

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.
9/4/2025	0	60	10.4		141		10		57		82		0			13		314		169.1	
9/4/2025	1	60	10.4		140		13		59		77		0			13		314		167.7	
9/4/2025	2	60	10.5		140		14		75		81		0			13		314		167.6	
9/4/2025	3	60	10.5		138		16		54		70		3	1		13		314	314	168.7	168.2
9/4/2025	4	60	10.5		142		14		39		64		1			13		315		168.5	
9/4/2025	5	60	10.6		140		22		44		51		0			13		314		165.7	
9/4/2025	6	60	10.2		142		13		34		62		0			13		315		167.9	
9/4/2025	7	60	10.3		141		8		31		74		1	1		13	13	315	315	169.6	167.9
9/4/2025	8	60	10.3		140		8		47		82		1			13		314		168.6	
9/4/2025	9	60	10.3		136		14		68		80		2			13		314		169.5	
9/4/2025	10	60	10.6		141		8		49		84		1			13		315		167.7	
9/4/2025	11	60	10.6		140		9		60		86		1	1		13		315	314	166.9	168.2
9/4/2025	12	60	10.3		142		3		47		93		1			13		315		167.4	
9/4/2025	13	60	10.4		142		6		36		84		1			13		314		168.5	
9/4/2025	14	60	10.5		140		4		38		90		1			13		314		168.3	
9/4/2025	15	60	10.2		140		6		51		88		2	1		13	13	315	315	168.7	168.2
9/4/2025	16	60	10.1		140		0		43		99		2			13		314		167.6	
9/4/2025	17	60	10.3		142		10		49		80		2			13		315		168.0	
9/4/2025	18	60	10.1		141		13		64		79		1			13		315		169.0	
9/4/2025	19	60	10.2		142		2		38		95		1	1		13		314	315	167.2	168.0
9/4/2025	20	60	10.0		140		9		41		78		1			13		316		168.6	
9/4/2025	21	60	10.2		140		13		43		71		2			13		315		165.4	
9/4/2025	22	60	9.9		142		17		55		70		1			13		316		168.5	
9/4/2025	23	60	10.0		139		12		46		74		1	1		13	13	314	315	168.3	167.7

Average:  
Geometric Mean Average:

Limit:

141	8	OR	83
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean		≥ 80% Removal Efficiency

see above
≤ 69 ppmc 4-HR Block Average

see above	see above	see above
≥ 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 9/4/25

Plant Wheelabrator North Andover

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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 Hr Block
9/4/2025	0	0	20.8	IF	4	IF	5	IF	0	IBF	0	IBF	0	IF		0		489		0.0		
9/4/2025	1	0	20.8	IF	3	IF	5	IF	-124	IBF	0	IBF	0	IF		0		489		0.0		
9/4/2025	2	0	20.8	IF	4	IF	5	IF	0	IBF	0	IBF	0	IF		0		489		0.0		
9/4/2025	3	5	20.0	ICF	3	ICF	5	ICF	0	IBF	0	IBCF	0	ICF	0	ICF	0	489	489	0.0	0.0	
9/4/2025	4	11	17.5	IBCF	81	IBCF	60	IBCF	0	IBF	0	IBCF	538	IBCF		0		489		0.0		
9/4/2025	5	0	20.8	IF	5	IF	5	IF	145	IBCF	97	IBCF	0	IF		0		489		0.0		
9/4/2025	6	0	20.8	IF	5	IF	5	IF	0	IBF	0	IBF	0	IF		0		489		0.0		
9/4/2025	7	0	20.8	IF	5	IF	5	IF	0	IBF	0	IBF	0	IF	134	IBCF	0	0	489	489	0.0	0.0
9/4/2025	8	0	20.8	IF	6	IF	5	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	9	0	20.8	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	10	0	20.8	IF	7	IF	5	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	11	0	20.8	IF	6	IF	5	IF	0	IBF	0	IBF	0	IF	0	IF	0	0	489	489	0.0	0.0
9/4/2025	12	0	20.8	IF	6	IF	5	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	13	0	20.9	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	14	0	20.9	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	15	0	20.9	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF	0	IF	0	0	489	489	0.0	0.0
9/4/2025	16	0	20.9	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	17	0	20.9	IF	7	IF	3	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	18	0	21.0	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	19	0	21.0	IF	6	IF	4	IF	0	IBF	0	IBF	0	IF	0	IF	0	0	489	489	0.0	0.0
9/4/2025	20	0	20.9	IF	7	IF	4	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	21	0	21.0	IF	7	IF	3	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	22	0	21.0	IF	7	IF	3	IF	0	IBF	0	IBF	0	IF			0		489		0.0	
9/4/2025	23	0	21.0	IF	7	IF	3	IF	0	IBF	0	IBF	0	IF	0	IF	0	0	489	489	0.0	0.0

Average:  
Geometric Mean Average:

Limit:

9 IBCF	5 IBCF	OR	0 IBCF	see above	see above	see above
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean		≥ 80% Removal Efficiency	≤ 69 4-HR Block Average ppmC	≥ 12 8-HR. Block Average lb/hr	≤ 345 °F 4-HR Block Average
				≤ 173 4-HR Block Average klb/hr		

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# WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 04-Sep-2025

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	1	1	1	1	1	1	1	1	1	1	1
1	1	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	1	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	2	IC	5	IC	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1

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Date 04-Sep-2025

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Source Outlet

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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	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
1	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
2	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
3	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
4	1		1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
5	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
6	2	ICF	23	ICF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	3
7	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
8	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
9	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
10	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
11	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
12	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
13	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
14	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
15	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
16	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
17	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
18	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
19	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
20	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
21	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
22	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1
23	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1	IF	1

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