



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



Date 11/15/25

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.
11/15/2025	0	60	10.6		141		4		60		93		2			13		314		167.9	
11/15/2025	1	60	10.4		141		6		67		92		1			13		315		168.7	
11/15/2025	2	60	10.7		138		4		53		92		1			13		314		166.3	
11/15/2025	3	60	10.5		137		3		58		95		7	2		13		314	314	168.2	167.8
11/15/2025	4	60	10.1		139		12		69		82		1			12		315		170.0	
11/15/2025	5	60	10.5		135		11		64		84		17			13		314		165.9	
11/15/2025	6	60	10.5		142		1		53		97		1			12		315		166.9	
11/15/2025	7	60	10.4		141		3		56		95		3	5		13	13	314	314	166.8	167.4
11/15/2025	8	60	10.1		145		0		36		100		0			13		315		168.5	
11/15/2025	9	60	10.6		135		0		31		100		0			12		314		166.1	
11/15/2025	10	60	10.3		139		0		23		100		1			12		315		166.9	
11/15/2025	11	60	10.2		144		0		42		100		1	1		11		315	315	166.0	166.8
11/15/2025	12	60	10.0		140		0		71		100		0			11		314		167.5	
11/15/2025	13	60	9.9		140		0		64		100		1			12		314		169.6	
11/15/2025	14	60	10.1		140		0		56		100		1			14		314		167.9	
11/15/2025	15	60	9.8		146		0		50		100		34	9		15	12	315	314	168.6	168.4
11/15/2025	16	60	10.2		136		1		65		99		96			14		313		163.1	
11/15/2025	17	60	9.7		125		0		49		100		1			13		315		162.1	
11/15/2025	18	60	9.6		138		0		45		99		5			13		315		166.2	
11/15/2025	19	60	9.7		141		3		50		94		1	26		13		314	314	166.8	164.6
11/15/2025	20	60	9.7		153		7		55		88		17			13		316		169.8	
11/15/2025	21	60	10.0		133		3		49		93		1			13		314		167.4	
11/15/2025	22	60	10.0		144		6		44		87		7			13		316		169.4	
11/15/2025	23	60	10.0		138		0		32		100		1	7		13	13	314	315	164.5	167.8

Average:	<b>140</b>	<b>1</b>	<b>99</b>			
Geometric Mean Average:						
Limit:	<b>≤ 150</b> 24-HR Block Avg.	<b>≤ 29</b> 24-HR Geometric Mean	<b>OR</b>	<b>≥ 80%</b> Removal Efficiency	<b>see above</b> <b>≤ 69</b> ppmc 4-HR Block Average	<b>see above</b> <b>≥ 12</b> lb/hr 8-HR. Block Average
						<b>see above</b> <b>≤ 345</b> °F 4-HR Block Average
						<b>see above</b> <b>≤ 173</b> 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 11/15/25

Plant Wheelabrator North Andover

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

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.
11/15/2025	0	60	10.5		138		13		53		75		4			12		315		168.7	
11/15/2025	1	60	10.5		142		10		53		81		4			13		315		169.4	
11/15/2025	2	60	10.6		138		5		44		89		3			13		315		168.1	
11/15/2025	3	60	10.4		138		3		44		93		3	3		13		315	315	169.2	168.9
11/15/2025	4	60	10.5		142		1		47		98		5			13		315		167.1	
11/15/2025	5	60	10.5		138		11		69		84		3			13		315		170.0	
11/15/2025	6	60	10.6		142		4		64		93		3			13		315		168.4	
11/15/2025	7	60	10.8		139		2		47		95		3	4		13	13	315	315	166.0	167.9
11/15/2025	8	60	10.2		139		0		34		100		4			13		315		169.1	
11/15/2025	9	60	10.2		140		0		28		100		4			13		315		168.7	
11/15/2025	10	60	10.3		139		0		28		100		4			13		315		168.0	
11/15/2025	11	60	10.5		141		0		40		100		3	4		13		315	315	167.9	168.4
11/15/2025	12	60	9.9		138		0		65		99		4			13		315		168.0	
11/15/2025	13	60	10.3		139		0		44		100		3			13		315		168.2	
11/15/2025	14	60	10.2		140		0		40		100		3			13		315		170.2	
11/15/2025	15	60	10.3		138		0		47		100		3	3		13	13	315	315	168.5	168.7
11/15/2025	16	60	10.1		141		0		57		100		3			13		314		168.6	
11/15/2025	17	60	10.4		141		2		60		97		3			12		315		168.2	
11/15/2025	18	60	10.3		138		8		62		88		3			12		315		168.6	
11/15/2025	19	60	10.4		139		17		72		76		3	3		13		315	315	168.0	168.4
11/15/2025	20	60	10.2		141		13		69		82		3			13		315		169.4	
11/15/2025	21	60	10.2		140		10		63		83		3			13		315		168.8	
11/15/2025	22	60	10.2		136		13		65		80		3			14		315		167.6	
11/15/2025	23	60	9.9		136		17		72		77		4	3		13	13	315	315	170.1	169.0

Average:  
Geometric Mean Average:

Limit:

139	1
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean

OR

99
≥ 80% Removal Efficiency

see above
≤ 69 4-HR Block Average ppmc

see above
≥ 12 8-HR. Block Average lb/hr

see above
≤ 345 °F 4-HR Block Average

see above
≤ 173 4-HR Block Average klb/hr

**Status Flags**

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



Date 15-Nov-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	2	2	1	1
8	2	2	2	2	2	2	1	1	2	2	1
9	2	2	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	2	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	2	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	2	1	1	1	1	1	1
20	1	1	1	1	1	1	2	2	2	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

**Status Flags**

I - Invalid                      C - Calibration                      F - Offline                      T - Out of Control                      ^ - Startup  
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Date 15-Nov-2025

Plant Wheelabrator North Andover  
Unit Unit 2  
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	2	2	2	2	2	2	2	2	2	2	2
1	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2
3	2	2	2	2	2	2	2	2	2	2	2
4	2	2	2	2	2	2	2	2	2	2	2
5	2	2	2	2	2	2	2	2	2	2	2
6	1	IC	6	IC	2	2	2	2	2	2	2
7	2	2	2	2	2	2	2	2	2	2	2
8	2	2	2	2	2	2	2	2	2	2	2
9	2	2	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	2	2	2	2	2
11	2	2	2	2	2	2	2	2	2	2	2
12	2	2	2	2	2	2	2	2	2	2	2
13	2	2	2	2	2	2	2	2	2	2	2
14	2	2	2	2	2	2	2	2	2	2	2
15	2	2	2	2	2	2	2	2	2	2	2
16	2	2	2	2	2	2	2	2	2	2	2
17	2	2	2	2	2	2	2	2	2	2	2
18	2	2	2	2	2	2	2	2	2	2	2
19	2	2	2	2	2	2	2	2	2	2	2
20	2	2	2	2	2	2	2	2	2	2	2
21	2	2	2	2	2	2	2	2	2	2	2
22	2	2	2	2	2	2	2	2	2	2	2
23	2	2	2	2	2	2	2	2	2	2	2

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