



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



Date 1/21/25

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.
1/21/2025	0	60	10.7		119		0		25		99		4			14		310		167.2	
1/21/2025	1	60	11.1		134		0		23		100		2			13		309		165.8	
1/21/2025	2	60	11.4		141		11		49		77		1			13		310		165.9	
1/21/2025	3	60	11.2		139		3		31		90		2	2		11		309	309	166.3	166.3
1/21/2025	4	60	11.2		144		6		37		85		2			12		310		167.0	
1/21/2025	5	60	11.1		140		2		34		93		1			13		310		168.8	
1/21/2025	6	60	11.0		141		0		19		100		2			14		309		167.2	
1/21/2025	7	60	11.2		140		0		18		100		1	1		13	13	309	309	166.7	167.4
1/21/2025	8	60	10.8		142		0		12		100		2			13		310		166.8	
1/21/2025	9	60	10.8		141		0		17		100		2			14		309		167.2	
1/21/2025	10	60	10.9		141		0		22		100		1			12		309		166.4	
1/21/2025	11	60	10.7		141		0		32		100		1	1		12		309	309	168.2	167.1
1/21/2025	12	60	10.6		144		0		27		100		2			12		310		160.9	
1/21/2025	13	60	10.7		138		0		36		100		1			12		309		166.7	
1/21/2025	14	60	10.8		141		0		31		100		1			11		309		166.6	
1/21/2025	15	60	10.3		141		0		28		100		1	1		10	12	310	309	166.4	165.1
1/21/2025	16	60	10.3		141		0		36		100		2			12		310		163.8	
1/21/2025	17	60	10.6		140		0		31		100		1			13		309		165.6	
1/21/2025	18	60	10.3		141		0		29		100		1			12		310		165.4	
1/21/2025	19	60	10.6		142		0		26		100		1	1		14		309	309	163.2	164.5
1/21/2025	20	60	10.6		141		0		35		100		2			13		308		163.6	
1/21/2025	21	60	10.5		136		2		53		96		2			12		309		166.3	
1/21/2025	22	60	10.9		142		1		41		97		1			12		309		165.7	
1/21/2025	23	60	10.5		142		1		40		98		2	2		13	13	310	309	167.9	165.9

Average: Geometric Mean Average:	140	0	100	OR	see above	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

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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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.
1/21/2025	0	60	9.4		126		0		31		100		4			14		310		167.3	
1/21/2025	1	60	9.5		128		0		26		100		4			14		310		167.4	
1/21/2025	2	60	9.6		141		0		28		100		4			13		310		167.3	
1/21/2025	3	60	9.5		137		11		72		85		4	4		13		310	310	168.2	167.5
1/21/2025	4	60	9.6		148		0		27		100		4			14		310		167.7	
1/21/2025	5	60	9.8		137		1		30		96		3			13		310		167.3	
1/21/2025	6	60	9.7		140		0		17		100		3			14		310		167.5	
1/21/2025	7	60	9.7		141		0		14		100		3	3		13	13	311	310	167.4	167.5
1/21/2025	8	60	10.2		143		0		19		100		4			13		310		166.9	
1/21/2025	9	60	10.3		137		0		22		100		3			12		310		167.9	
1/21/2025	10	60	10.4		148		0		17		100		3			12		310		166.3	
1/21/2025	11	60	10.1		126		0		30		100		4	3		12		310	310	166.7	167.0
1/21/2025	12	60	10.0		138		0		23		100		4			12		310		166.5	
1/21/2025	13	60	10.1		139		0		30		100		3			12		310		166.1	
1/21/2025	14	60	10.5		136		0		30		100		4			12		310		167.3	
1/21/2025	15	60	10.6		141		0		34		100		5	4		12	12	310	310	166.8	166.7
1/21/2025	16	60	9.8		139		0		30		100		5			12		310		165.4	
1/21/2025	17	60	10.3		133		0		26		98		92			12		310		159.2	
1/21/2025	18	60	9.7		138		0		36		100		8			14		309		163.2	
1/21/2025	19	60	9.8		143		0		45		100		6	28		14		310	310	167.1	163.7
1/21/2025	20	60	9.8		139		0		46		100		5			13		310		169.2	
1/21/2025	21	60	9.8		141		0		41		100		5			14		310		167.3	
1/21/2025	22	60	10.0		137		0		45		100		4			14		310		163.6	
1/21/2025	23	60	10.0		142		0		39		100		5	5		14	13	310	310	166.0	166.5

Average: Geometric Mean Average:	138	0	OR	100	see above	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 21-Jan-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	6	IC	1	1	1	1	1	1	1
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 21-Jan-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	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	1	IC	4	IC	1	1	1	1	1	1	1
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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