



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



Date 8/16/25

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.
8/16/2025	0	60	10.7		141		10		51		81		0			13		314		167.8	
8/16/2025	1	60	10.6		142		13		52		75		1			13		315		168.3	
8/16/2025	2	60	10.5		140		20		55		64		0			13		315		170.0	
8/16/2025	3	60	10.6		140		5		46		89		1	0		13		314	315	168.5	168.6
8/16/2025	4	60	10.6		144		18		60		70		0			13		315		169.1	
8/16/2025	5	60	10.5		140		15		63		77		0			13		314		168.8	
8/16/2025	6	60	10.5		142		10		45		78		0			13		315		166.0	
8/16/2025	7	60	10.6		138		15		55		73		0	0		13	13	315	315	169.6	168.4
8/16/2025	8	60	11.3		137		4		45		91		1			13		314		163.9	
8/16/2025	9	60	11.2	IBCM	145	IBCM	0	IBCM	41		100	IBCM	1	IBCM		13		315		164.4	
8/16/2025	10	60	10.6		140		0		43		99		1			13		315		167.9	
8/16/2025	11	60	10.5		142		6		45		86		1	1		13		314	314	165.7	165.5
8/16/2025	12	60	10.4		140		12		57		79		1			13		314		167.9	
8/16/2025	13	60	10.6		140		10		39		74		0			13		314		167.5	
8/16/2025	14	60	10.3		141		12		39		68		0			13		314		168.4	
8/16/2025	15	60	10.4		140		9		43		80		0	0		13	13	313	314	167.4	167.8
8/16/2025	16	60	10.7		143		16		53		70		0			13		315		164.8	
8/16/2025	17	60	10.5		139		18		67		74		0			13		315		168.1	
8/16/2025	18	60	10.5		141		16		67		77		0			13		315		168.0	
8/16/2025	19	60	10.5		141		18		55		67		0	0		13		315	315	168.5	167.4
8/16/2025	20	60	10.6		140		14		50		71		0			13		314		168.6	
8/16/2025	21	60	10.7		140		17		61		72		0			13		315		168.3	
8/16/2025	22	60	10.7		141		17		47		63		0			13		314		167.8	
8/16/2025	23	60	10.5		142		12		41		71		0	0		13	13	315	314	169.0	168.4

Average: Geometric Mean Average:	141	10	OR	79	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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Date 8/16/25

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.
8/16/2025	0	60	10.7		139		2		44		95		3			13		315		168.9	
8/16/2025	1	60	10.7		142		3		42		93		4			13		315		169.0	
8/16/2025	2	60	10.7		138		3		49		93		4			14		314		169.0	
8/16/2025	3	60	10.7		139		7		54		87		3	3		13		315	315	167.8	168.7
8/16/2025	4	60	10.8		139		14		51		73		5			14		315		168.3	
8/16/2025	5	60	10.8		143		5		50		90		3			14		315		168.7	
8/16/2025	6	60	10.8		141		6		41		85		4			13		315		167.7	
8/16/2025	7	60	11.0		137		4		50		92		4	4		14	13	315	315	169.0	168.4
8/16/2025	8	60	11.2		139		0		32		100		4			13		315		166.5	
8/16/2025	9	60	10.9		141		0		43		100		4			14		315		167.9	
8/16/2025	10	60	10.6		139		0		42		99		4			13		315		168.9	
8/16/2025	11	60	10.4		139		0		38		100		4	4		14		315	315	166.6	167.5
8/16/2025	12	60	10.6		140		3		50		94		3			14		314		168.9	
8/16/2025	13	60	10.5		138		1		39		98		3			13		315		167.9	
8/16/2025	14	60	10.7		140		1		38		98		3			13		315		168.8	
8/16/2025	15	60	10.4		139		1		52		99		3	3		13	13	316	315	166.8	168.1
8/16/2025	16	60	10.6		142		0		43		100		3			14		315		168.7	
8/16/2025	17	60	10.6		138		0		45		99		3			13		316		168.6	
8/16/2025	18	60	10.9		141		0		44		100		3			13		315		169.2	
8/16/2025	19	60	10.8		139		8		71		88		3	3		14		315	315	168.9	168.8
8/16/2025	20	60	10.8		140		0		37		100		3			13		316		168.3	
8/16/2025	21	60	10.7		138		1		48		99		3			13		315		169.5	
8/16/2025	22	60	10.8		140		2		40		94		4			13		315		167.6	
8/16/2025	23	60	10.5		139		0		31		100		3	3		13	13	315	315	168.8	168.6

Average:
Geometric Mean Average:

Limit:

140	1	99
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency

OR

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

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 16-Aug-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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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 16-Aug-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	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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