



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



Date 12/28/24

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.
12/28/2024	0	60	11.2		141		0		35		100		1			12		309		167.1	
12/28/2024	1	60	11.4		140		0		26		100		1			12		309		166.5	
12/28/2024	2	60	11.3		141		0		30		100		1			15		310		167.5	
12/28/2024	3	60	11.5		140		3		42		93		1	1		15		309	309	165.6	166.7
12/28/2024	4	60	11.4		138		10		53		81		1			13		309		168.1	
12/28/2024	5	60	11.4		142		8		54		86		0			17		310		168.6	
12/28/2024	6	60	11.7		143		4		47		92		0			14		309		165.4	
12/28/2024	7	60	11.9		140		0		38		99		2	1		15	14	310	309	157.3	164.9
12/28/2024	8	60	11.5		140		0		33		100		1			15		310		166.9	
12/28/2024	9	60	11.6		141		0		24		100		1			14		310		163.9	
12/28/2024	10	60	11.5		142		1		52		97		1			17		309		167.7	
12/28/2024	11	60	11.4		142		0		42		99		1	1		14		310	310	166.9	166.3
12/28/2024	12	60	11.4		140		0		22		100		1			19		309		164.9	
12/28/2024	13	60	11.3		141		0		28		100		1			15		309		165.4	
12/28/2024	14	60	11.4		141		0		20		100		1			9		309		165.5	
12/28/2024	15	60	11.3		142		0		13		98		1	1		14	15	314	310	167.6	165.8
12/28/2024	16	60	11.7		140		20		0		0		0			13		371		159.6	
12/28/2024	17	60	12.0		142		32		0		0		0			15		319		155.6	
12/28/2024	18	60	11.6		140		8		75		90		1			12		307		157.5	
12/28/2024	19	60	11.2		140		0		26		100		0	0		14		309	327	166.5	159.8
12/28/2024	20	60	11.3		142		0		25		100		1			15		309		163.3	
12/28/2024	21	60	11.1		140		0		33		100		1			12		309		165.9	
12/28/2024	22	60	11.3		135		0		35		100		1			9		309		167.6	
12/28/2024	23	60	11.0		142		0		35		100		1	1		15	13	310	309	169.0	166.5

Average: Geometric Mean Average:	141	0	OR	99	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.
12/28/2024	0	60	10.2		141		1		36		99		4			15		310		167.2	
12/28/2024	1	60	10.2		136		1		42		98		3			16		310		167.0	
12/28/2024	2	60	10.1		143		0		35		100		4			20		310		167.3	
12/28/2024	3	60	10.1		138		0		41		99		4	4		11		310	310	167.9	167.4
12/28/2024	4	60	10.2		139		6		63		91		4			15		310		168.7	
12/28/2024	5	60	10.4		139		2		51		96		2			18		310		167.2	
12/28/2024	6	60	10.3		141		1		55		98		3			12		310		167.2	
12/28/2024	7	60	10.3		143		0		46		100		3	3		12	15	310	310	167.7	167.7
12/28/2024	8	60	10.2		138		0		55		99		3			14		310		167.8	
12/28/2024	9	60	10.3		138		0		46		100		3			17		310		167.9	
12/28/2024	10	60	10.3		141		0		47		100		3			16		310		167.5	
12/28/2024	11	60	10.3		139		0		56		100		3	3		14		310	310	166.6	167.5
12/28/2024	12	60	10.1		141		0		43		100		3			10		310		167.5	
12/28/2024	13	60	10.1		139		0		38		100		3			18		310		167.1	
12/28/2024	14	60	10.0		138		0		27		100		3			18		310		167.4	
12/28/2024	15	60	10.2		141		1		25		97		3	3		20	16	312	310	167.6	167.4
12/28/2024	16	60	11.1		140		28		0		0		3			17		382		157.9	
12/28/2024	17	60	11.7		139		42		0		0		2			18		327		154.1	
12/28/2024	18	60	10.7		141		12		49		76		3			15		312		159.9	
12/28/2024	19	60	10.0		138		0		35		100		3	3		16		310	333	167.8	159.9
12/28/2024	20	60	10.0		140		0		41		100		3			12		310		167.1	
12/28/2024	21	60	9.6		139		0		37		100		2			15		309		166.1	
12/28/2024	22	60	9.8		142		0		45		100		2			15		311		168.3	
12/28/2024	23	60	10.3		138		0		54		100		2	2		12	15	310	310	168.0	167.4

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 28-Dec-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	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	2	IC	5	IC	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0

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Date 28-Dec-2024

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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	1	1	1	1	1	1	1	1
17	2	2	2	2	1	1	2	2	2	1	1
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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