



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



Date 5/26/24

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.
5/26/2024	0	60	10.3		140		19		65		71		0			13		310		166.9	
5/26/2024	1	60	10.4		140		14		55		74		0			13		308		164.8	
5/26/2024	2	60	10.4		140		15		69		78		0			13		309		167.2	
5/26/2024	3	60	10.4		142		21		70		70		0	0		13		310	309	167.3	166.6
5/26/2024	4	60	10.4		145		20		69		71		0			13		309		168.1	
5/26/2024	5	60	10.5		140		17		67		74		0			13		309		166.9	
5/26/2024	6	60	10.6		141		19		67		72		0			13		309		168.1	
5/26/2024	7	60	10.6		140		12		52		77		1	0		13	13	310	309	166.9	167.5
5/26/2024	8	60	10.5		140		10		54		81		0			13		309		167.7	
5/26/2024	9	60	10.5		142		13		51		76		0			13		309		167.6	
5/26/2024	10	60	10.4		142		13		59		79		0			13		310		167.4	
5/26/2024	11	60	10.4		139		14		66		79		0	0		13		309	309	167.2	167.5
5/26/2024	12	60	10.5		142		18		62		72		0			13		309		166.0	
5/26/2024	13	60	10.5		142		20		68		71		0			13		309		166.5	
5/26/2024	14	60	10.4		142		18		68		74		0			13		310		166.8	
5/26/2024	15	60	10.4		139		20		66		70		0	0		13	13	309	309	166.7	166.5
5/26/2024	16	60	10.5		142		26		100		74		0			13		309		169.3	
5/26/2024	17	60	10.7		140		21		78		73		0			13		310		167.4	
5/26/2024	18	60	10.5		140		28		116		76		0			13		309		167.5	
5/26/2024	19	60	10.6		143		22		77		72		0	0		13		309	309	167.3	167.9
5/26/2024	20	60	10.5		139		18		58		70		0			13		309		167.9	
5/26/2024	21	60	10.6		140		19		54		65		0			13		309		167.1	
5/26/2024	22	60	10.5		142		15		44		67		0			13		310		166.4	
5/26/2024	23	60	10.3		142		10		45		77		0	0		13	13	309	309	166.2	166.9

Average:
Geometric Mean Average:

Limit:

141	17	OR	74	see above	see above	see above
≤ 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

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 5/26/24

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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.
5/26/2024	0	60	10.0		140		13		52		76		5			14		310		166.2	
5/26/2024	1	60	10.1		140		8		51		84		5			14		310		167.1	
5/26/2024	2	60	10.1		139		6		50		88		5			14		310		168.6	
5/26/2024	3	60	10.1		139		10		62		84		5	5		14		310	310	167.5	167.4
5/26/2024	4	60	10.3		142		1		51		99		5			14		310		166.1	
5/26/2024	5	60	10.4		138		10		60		83		5			14		310		166.9	
5/26/2024	6	60	10.4		142		7		49		86		4			14		310		168.0	
5/26/2024	7	60	10.4		138		7		49		86		4	5		14	14	310	310	168.0	167.3
5/26/2024	8	60	10.4		138		0		40		100		4			14		310		167.2	
5/26/2024	9	60	10.2		140		0		35		100		4			14		310		167.8	
5/26/2024	10	60	10.1		140		0		49		100		4			14		310		167.6	
5/26/2024	11	60	10.0		140		0		48		99		4	4		14		310	310	168.2	167.7
5/26/2024	12	60	10.1		139		3		60		95		4			14		310		167.6	
5/26/2024	13	60	10.1		140		7		63		89		4			14		310		166.9	
5/26/2024	14	60	10.0		140		6		53		89		4			14		310		168.3	
5/26/2024	15	60	10.1		139		1		45		98		4	4		14	14	310	310	165.6	167.1
5/26/2024	16	60	10.0		141		7		54		87		5			14		310		168.2	
5/26/2024	17	60	10.1		139		11		55		80		5			14		310		167.3	
5/26/2024	18	60	9.9		140		21		67		69		6			14		310		168.1	
5/26/2024	19	60	10.1		138		10		55		81		5	5		14		310	310	166.3	167.5
5/26/2024	20	60	10.2		141		16		61		74		4			14		310		167.7	
5/26/2024	21	60	10.2		138		11		56		80		5			14		310		168.0	
5/26/2024	22	60	10.2		139		4		42		90		4			14		310		168.0	
5/26/2024	23	60	10.2		138		0		36		100		4	4		14	14	310	310	166.2	167.5

Average: Geometric Mean Average:	140	3	OR	95	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

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 26-May-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	0	IC	4	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 26-May-2024

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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