



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



Date 4/21/24

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.
4/21/2024	0	60	10.9		141		30		127		76		2			13		309		167.5	
4/21/2024	1	60	10.8		141		21		101		79		1			13		310		165.8	
4/21/2024	2	60	10.7		141		25		114		78		1			13		309		166.8	
4/21/2024	3	60	10.7		142		43		147		70		1	I		13		309	309	167.0	166.8
4/21/2024	4	60	10.7		141		23		111		79		1			12		309		168.0	
4/21/2024	5	60	10.7		141		14		103		86		0			12		309		167.6	
4/21/2024	6	60	10.7		140		6		112		94		2			12		309		167.1	
4/21/2024	7	60	10.6		141		7		125		95		1	I		12	12	307	309	166.6	167.3
4/21/2024	8	60	10.6		140		17		131		87		1			12		309		167.6	
4/21/2024	9	60	10.8		142		49		183		73		2			13		306		165.9	
4/21/2024	10	60	10.8		141		20		120		83		1			13		304		167.3	
4/21/2024	11	60	10.7		141		17		106		84		0	I		13		306	306	166.3	166.8
4/21/2024	12	60	10.7		141		35		144		76		1			13		309		166.5	
4/21/2024	13	60	10.7		140		34		151		78		1			12		309		167.3	
4/21/2024	14	60	10.6		141		28		137		79		1			15		309		168.1	
4/21/2024	15	60	10.5		140		23		118		80		0	I		13	13	309	309	168.5	167.6
4/21/2024	16	60	10.6		140		28		124		77		1			13		309		166.6	
4/21/2024	17	60	10.6		141		36		143		75		1			13		310		169.5	
4/21/2024	18	60	10.7		141		35		136		74		1			13		309		167.3	
4/21/2024	19	60	10.8		141		24		99		76		0	I		13		309	309	166.9	167.6
4/21/2024	20	60	10.7		141		32		113		72		1			13		309		164.9	
4/21/2024	21	60	10.7		141		32		106		69		1			12		309		167.7	
4/21/2024	22	60	10.7		142		27		99		73		1			12		310		165.6	
4/21/2024	23	60	10.6		140		19		72		74		0	I		13	13	309	309	166.2	166.1

Average: Geometric Mean Average:	141	24	OR	80	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 4/21/24

Plant Wheelabrator North Andover

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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.
4/21/2024	0	60	10.2		138		17		79		79		6			14		310		167.3	
4/21/2024	1	60	10.2		141		3		48		93		5			13		310		167.4	
4/21/2024	2	60	10.2		138		0		45		99		6			13		310		167.4	
4/21/2024	3	60	10.2		140		7		56		88		5	6		13		310	310	167.0	167.3
4/21/2024	4	60	10.5		139		7		51		87		6			13		310		167.4	
4/21/2024	5	60	10.4		140		16		57		73		6			14		310		167.2	
4/21/2024	6	60	10.4		139		50		98		49		6			14		310		167.3	
4/21/2024	7	60	10.4		140		30		103		71		6	6		14	14	310	310	167.0	167.2
4/21/2024	8	60	10.3		140		43		149		71		6			14		310		167.0	
4/21/2024	9	60	10.2		139		28		114		76		5			14		310		167.8	
4/21/2024	10	60	10.3		140		15		82		82		5			14		310		166.7	
4/21/2024	11	60	10.2		141		30		101		71		5	5		14		310	310	167.4	167.2
4/21/2024	12	60	10.2		139		32		121		74		5			14		310		167.4	
4/21/2024	13	60	10.1		139		37		115		68		5			14		310		167.5	
4/21/2024	14	60	10.0		140		28		112		75		6			14		310		168.0	
4/21/2024	15	60	10.0		141		7		79		91		6	6		14	14	310	310	167.4	167.6
4/21/2024	16	60	10.2		138		20		98		80		5			14		310		165.9	
4/21/2024	17	60	10.1		141		14		70		80		5			14		310		167.3	
4/21/2024	18	60	9.9		139		15		71		79		5			14		310		167.5	
4/21/2024	19	60	10.0		140		1		47		97		5	5		13		310	310	167.3	167.0
4/21/2024	20	60	10.0		141		4		63		94		5			14		310		167.2	
4/21/2024	21	60	10.1		140		11		64		83		5			13		310		167.5	
4/21/2024	22	60	10.0		138		3		53		95		6			14		310		166.8	
4/21/2024	23	60	10.3		140		0		38		100		6	6		14	14	310	310	167.1	167.2

Average:
Geometric Mean Average:

Limit:

140	9	88
≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency

OR

see above
≤ 69 ppmc 4-HR Block Average

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

see above
≤ 345 °F 4-HR Block Average

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

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 21-Apr-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	0
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 21-Apr-2024

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Unit Unit 2
Source Outlet

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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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