



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



Date 2/24/24

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.
2/24/2024	0	60	10.6		140		10		32		70		1			13		309		165.2	
2/24/2024	1	60	10.5		139		7		31		78		15			12		309		165.6	
2/24/2024	2	60	10.6		141		4		26		83		0			13		310		166.2	
2/24/2024	3	60	10.9		141		11		35		69		1	4		13		309	309	166.5	165.9
2/24/2024	4	60	10.7		145		16		36		55		2			13		310		167.9	
2/24/2024	5	60	10.8		141		15		34		57		1			13		309		166.7	
2/24/2024	6	60	10.8		141		15		34		56		2			13		309		166.2	
2/24/2024	7	60	10.5		139		14		41		65		17	6		13	13	309	309	167.2	167.0
2/24/2024	8	60	10.4		139		14		36		60		92			13		310		163.5	
2/24/2024	9	60	10.4		137		15		60		76		2			14		308		167.6	
2/24/2024	10	60	10.6		142		16		49		67		1			13		309		166.1	
2/24/2024	11	60	10.8		141		13		54		75		1	24		13		310	309	164.8	165.5
2/24/2024	12	60	10.5		142		20		62		67		1			13		310		167.0	
2/24/2024	13	60	10.3		141		21		91		77		5			13		309		164.5	
2/24/2024	14	60	10.1		140		19		65		71		1			12		310		166.3	
2/24/2024	15	60	10.4		136		13		46		71		0	2		12	13	308	309	165.7	165.9
2/24/2024	16	60	10.3		143		8		33		75		3			13		310		166.9	
2/24/2024	17	60	10.7		139		17		38		56		0			13		309		167.3	
2/24/2024	18	60	10.7		144		13		34		64		7			13		310		164.4	
2/24/2024	19	60	10.4		137		16		32		51		1	3		13		310	310	168.2	166.7
2/24/2024	20	60	10.9		143		19		27		32		0			12		310		166.5	
2/24/2024	21	60	10.6		140		12		25		53		1			12		310		165.8	
2/24/2024	22	60	10.7		141		11		21		49		0			12		309		168.6	
2/24/2024	23	60	10.6		142		15		27		46		0	0		13	13	309	309	167.2	167.0

Average: Geometric Mean Average:	141	13	OR	65	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 2/24/24

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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.
2/24/2024	0	60	9.7		140		4		61		93		5			14		310		167.4	
2/24/2024	1	60	9.5		140		1		51		98		5			14		310		167.7	
2/24/2024	2	60	9.5		139		1		43		98		5			14		310		167.6	
2/24/2024	3	60	9.8		139		1		47		98		5	5		14		310	310	167.0	167.4
2/24/2024	4	60	9.9		140		1		44		97		4			14		310		168.0	
2/24/2024	5	60	9.8		141		1		41		98		4			14		310		166.1	
2/24/2024	6	60	9.8		139		4		48		92		4			14		310		167.2	
2/24/2024	7	60	9.6		140		3		49		93		5	4		14	14	310	310	168.3	167.4
2/24/2024	8	60	9.6		140		1		38		98		4			14		310		166.6	
2/24/2024	9	60	9.9		140		3		51		93		4			14		310		167.5	
2/24/2024	10	60	9.9		136		1		43		98		4			14		310		167.2	
2/24/2024	11	60	9.9		142		1		45		98		4	4		14		310	310	167.3	167.1
2/24/2024	12	60	9.8		139		1		54		97		4			14		310		167.2	
2/24/2024	13	60	9.6		140		14		102		87		4			13		310		166.1	
2/24/2024	14	60	9.6		142		6		73		92		4			14		310		168.3	
2/24/2024	15	60	9.6		140		2		55		97		4	4		14	14	310	310	168.5	167.5
2/24/2024	16	60	9.8		138		1		45		98		4			14		310		167.6	
2/24/2024	17	60	9.8		140		1		49		98		3			14		310		167.7	
2/24/2024	18	60	9.8		139		2		46		96		4			14		310		166.0	
2/24/2024	19	60	9.7		138		1		41		97		3	3		13		310	310	168.7	167.5
2/24/2024	20	60	9.9		141		0		33		99		3			14		310		166.7	
2/24/2024	21	60	9.7		138		0		28		99		3			14		310		167.8	
2/24/2024	22	60	9.8		139		1		27		98		4			21		310		167.7	
2/24/2024	23	60	9.8		140		0		30		99		4	3		10	14	310	310	167.1	167.3

Average: Geometric Mean Average:	140	1	97	OR	see above	see above	see above	see above				
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency		≤ 69 4-HR Block Average	ppmc	≥ 12 8-HR. Block Average	lb/hr	≤ 345 °F 4-HR Block Average	klb/hr	≤ 173 4-HR Block Average	klb/hr

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 24-Feb-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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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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