



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



Date 8/25/25

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.
8/25/2025	0	60	10.0		141		14		41		67		0			13		314		168.6	
8/25/2025	1	60	10.1		140		12		41		71		0			13		314		169.5	
8/25/2025	2	60	10.1		141		16		45		65		0			13		314		169.4	
8/25/2025	3	60	10.2		140		5		38		86		0	0		13		314	314	166.8	168.6
8/25/2025	4	60	10.0		136		12		41		70		0			13		315		164.8	
8/25/2025	5	60	10.1		138		5		37		86		0			13		314		169.2	
8/25/2025	6	60	10.3		138		2		27		94		0			13		315		163.8	
8/25/2025	7	60	10.2		138		1		31		96		0	0		13	13	314	315	167.4	166.3
8/25/2025	8	60	10.0		138		2		35		96		0			13		314		168.2	
8/25/2025	9	60	5.0	IBCM	67	IBCM	67	IBCM	46		0	IBCM	303	IBCM		13		314		166.5	
8/25/2025	10	60	10.3		141		6		54	IBCMF	89	IBCMF	5			13		315		167.3	
8/25/2025	11	60	10.2		141		10		47		78		0	2		13		315	314	166.7	167.1
8/25/2025	12	60	10.2		138		10		64		84		0			13		314		168.5	
8/25/2025	13	60	10.2		141		7		37		82		0			13		315		166.4	
8/25/2025	14	60	10.1		142		2		31		93		0			12		315		165.0	
8/25/2025	15	60	10.0		140		9		41		78		0	0		12	13	314	314	167.8	166.9
8/25/2025	16	60	10.2		140		10		32		70		0			14		314		166.1	
8/25/2025	17	60	9.7		142		3		50		94		0			12		315		165.6	
8/25/2025	18	60	10.2		137		0		28		99		0			13		314		169.5	
8/25/2025	19	60	10.6		139		3		34		92		0	0		13		314	314	164.3	166.4
8/25/2025	20	60	10.2		141		12		60		79		0			13		315		169.2	
8/25/2025	21	60	10.0		141		14		68		80		0			13		315		168.1	
8/25/2025	22	60	9.9		142		2		38		95		0			13		315		167.4	
8/25/2025	23	60	9.7		141		4		48		91		0	0		13	13	314	315	167.1	168.0

Average: Geometric Mean Average:	140	5	OR	88	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

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 8/25/25

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.
8/25/2025	0	60	10.0		136		4		44		90		2			13		315		169.3	
8/25/2025	1	60	10.0		140		2		37		95		4			13		315		168.6	
8/25/2025	2	60	10.0		140		2		36		96		2			13		315		168.5	
8/25/2025	3	60	10.1		140		0		37		100		2	3		13		315	315	168.5	168.7
8/25/2025	4	60	10.2		143		1		44		98		3			13		315		167.5	
8/25/2025	5	60	10.1		131		3		57		94		18			13		315		169.9	
8/25/2025	6	60	10.1		142		0		37		100		3			13		315		167.5	
8/25/2025	7	60	10.1		140		0		36		100		3	7		13	13	315	315	167.3	168.0
8/25/2025	8	60	10.2		140		0		50		100		3			13		315		167.2	
8/25/2025	9	60	4.9	IBCM	68	IBCM	66	IBCM	31		0	IBCM	276	IBCM		13		315		167.2	
8/25/2025	10	60	10.1		140		0		38		100		6			13		315		168.6	
8/25/2025	11	60	10.1		139		0		37		100		4	4		13		315	315	167.9	167.7
8/25/2025	12	60	10.2		141		0		36		100		4			13		315		167.1	
8/25/2025	13	60	10.2		139		0		42		100		4			13		315		167.5	
8/25/2025	14	60	10.0		141		0		30		100		4			13		315		167.2	
8/25/2025	15	60	10.0		139		1		44		98		4	4		13	13	315	315	168.3	167.5
8/25/2025	16	60	10.0		136		1		34		98		4			13		314		169.1	
8/25/2025	17	60	10.1		144		0		29		100		4			13		315		167.1	
8/25/2025	18	60	10.1		137		0		22		100		4			13		315		169.5	
8/25/2025	19	60	10.3		139		0		26		100		4	4		13		315	315	165.7	167.9
8/25/2025	20	60	10.1		141		3		62		95		4			13		315		169.9	
8/25/2025	21	60	10.1		138		3		57		94		4			13		315		167.9	
8/25/2025	22	60	10.0		140		0		39		100		4			13		315		166.7	
8/25/2025	23	60	10.2		140		0		34		100		4	4		13	13	315	315	163.7	167.1

Average: Geometric Mean Average:	139	0	OR	100	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 25-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	15	IM	8	IM	8	IM	17	IM	9	IM	8	IM	6				
12	9	IM	17	IM	8	IM	17	IM	8	IM	18	IM	9	IM	23	IM	1	IM	18	IM	12
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Date 25-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	9	IM	16	IM	9	IM	16	IM	9	IM	16	IM	12
14	8	IM	23	IM	1	IM	1	IM	1	IM	1	IM	4
15	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1

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 B - Bad M - Maintenance P - Purge E - Excluded * - Shutdown