

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1147A

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
18	Hard Lead Ventilation Baghouse Stack	TSP	0.98	3.38
		PM ₁₀	0.98	3.38
		Pb	0.06	0.24
		NO _x	11.28	0.60
		SO ₂	0.04	0.17
		CO	8.26	4.26
		VOC	1.65	4.85
		Trace Compounds	0.01	0.01
22	Specialty Alloy Baghouse Stack	TSP	1.28	4.51
		PM ₁₀	1.28	4.51
		Pb	0.02	0.08
		NO _x	11.03	0.58
		SO ₂	0.42	1.00
		CO	8.08	5.00
		VOC	1.62	4.75
		Trace Metals	0.04	0.10
23	Refining Building Vacuum Stack	TSP	0.21	0.56
		PM ₁₀	0.21	0.56
		Pb	0.03	0.11
37	Reverb./Blast Furnaces Fugitives Baghouse Stack	TSP	8.21	30.49
		PM ₁₀	8.21	30.49
		Pb	0.16	0.39
		NO _x	0.48	2.08
		SO ₂	21.68	68.31
		CO	8.75	28.32
		VOC	15.16	45.81
		HCl	0.21	0.92

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		H ₂ SO ₄	2.82	12.34
		SiO ₂	0.02	0.03
		Trace Metals	0.01	0.04
38	Reverb./Blast Furnaces	TSP	4.63	19.12
	Metallurgical	PM ₁₀	4.63	19.12
	Scrubber Stack	Pb	0.64	1.62
		NO _x	14.60	59.53
		SO ₂	445.59	1199.51
		CO	298.58	1190.35
		VOC	7.61	33.32
		Cd	0.02	0.05
		SiO ₂	0.09	0.41
		HCl	0.74	3.23
		H ₂ SO ₄	4.96	21.74
		Trace Metals	0.04	0.10
45	Raw Material Storage/ Shredder Baghouse	TSP	2.85	10.57
	Stack	PM ₁₀	2.85	10.57
		Pb	0.06	0.22
48	Battery Breaker	TSP	2.45	4.68
	Scrubber Stack	PM ₁₀	2.45	4.68
		Pb	0.06	0.13
		H ₂ SO ₄	0.06	0.14
48FUG	Battery Breaker Scrubber	H ₂ SO ₄	0.05	0.22
51	Sodium Bicarbonate	TSP	0.17	0.75
	Filter Vent	PM ₁₀	0.17	0.75

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			lb/hr	TPY
55	Hard Lead Kettle Heating	TSP	0.07	0.32
		PM ₁₀	0.07	0.32
		VOC	0.02	0.10
		NO _x	0.60	2.63
		CO	0.13	0.55
		SO ₂	<0.01	0.02
44	Raw Material Storage(4)	TSP	1.43	5.72
		PM ₁₀	0.72	2.86
		Pb	0.03	0.11
10 and 35	Furnace Fugitives (4)	TSP	1.83	8.00
		PM ₁₀	1.83	8.00
		Pb	0.27	1.20
		Cd	0.01	0.04
		Trace Metals	<0.01	<0.04
36	Refining/Casting (4)	TSP	0.03	0.10
		PM ₁₀	0.03	0.10
		Pb	<0.01	<0.01
		Trace Metals	<0.01	<0.01
52	Slag Handling (4)	TSP	0.07	0.31
		PM ₁₀	0.07	0.31
		Pb	0.01	0.05
		Trace Metals	<0.01	<0.01
41, 42, and 43	Vehicle Traffic (4)	TSP	--	0.63
		PM ₁₀	--	0.31
		Pb	--	0.31
53	Material Handling (4)	TSP	4.51	1.38
		PM ₁₀	0.45	0.14
		Pb	0.32	0.10

39	Slag Fixation Baghouse Stack	TSP	1.71	3.12
		PM ₁₀	1.71	3.12
		Pb	0.12	0.11
		Al	0.05	0.10
49	Reagent Silo No. 1 Baghouse Stack	TSP	0.36	0.38
		PM ₁₀	0.36	0.38
50	Reagent Silo No. 2 Baghouse Stack	TSP	0.36	0.38
		PM ₁₀	0.36	0.38

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) TSP - total suspended particulate matter including PM₁₀
PM₁₀ - particulate matter less than 10 microns in diameter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
Pb - lead and lead compounds as lead
Cd - cadmium and cadmium compounds as cadmium

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			lb/hr	TPY

H₂SO₄ - sulfuric acid mist/fumes

HCl - hydrochloric acid mist/fumes

SiO₂ - silica

Al - aluminum

Trace Compounds

Trace Metals

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and maximum production rates:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Maximum Allowable Recycled Lead Scrap Feed Rates:

Reverberatory Furnace: 20 Tons/hour, Blast Furnace: 12 Tons/hour

Combined Maximum Finish Lead Production: 400 Tons/day and 72,000 Tons/year

Dated_____

