

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
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
21	Soft Lead Refining Baghouse Stack	TSP	1.58	5.99
		PM ₁₀	1.58	5.99
		SO ₂	5.33	12.49
		NO _x	11.92	9.33
		CO	26.44	64.14
		Pb	0.17	0.38
		VOC	15.39	48.23
		HCl	0.18	0.74
		H ₂ SO ₄	0.27	1.17
		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

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
23	Refining Building Vacuum Stack	TSP	0.21	0.56
		PM ₁₀	0.21	0.56
		Pb	0.03	0.11
37	Reverberatory/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
		H ₂ SO ₄	2.82	12.34
		SiO ₂	0.02	0.03
38	Reverberatory/Blast Furnaces Metallurgical Scrubber Stack	Trace Metals	0.01	0.04
		TSP	4.63	19.12
		PM ₁₀	4.63	19.12
		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 Stack	TSP	2.85	10.57
		PM ₁₀	2.85	10.57
		Pb	0.06	0.22
48	Battery Breaker Scrubber Stack	TSP	2.45	4.68
		PM ₁₀	2.45	4.68
		Pb	0.06	0.13
		H ₂ SO ₄	0.06	0.14

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			lb/hr	TPY
48FUG	Battery Breaker Scrubber 0.22		H ₂ SO ₄	0.05
51	Sodium Bicarbonate Filter Vent	TSP PM ₁₀	0.17 0.17	0.75 0.75
54	Soft Lead Kettle Heating	TSP PM ₁₀ VOC NO _x CO SO ₂	0.07 0.07 0.02 0.60 0.13 <0.01	0.32 0.32 0.10 2.63 0.55 0.02
55	Hard Lead Kettle Heating	TSP PM ₁₀ VOC NO _x CO SO ₂	0.07 0.07 0.02 0.60 0.13 <0.01	0.32 0.32 0.10 2.63 0.55 0.02
44	Raw Material Storage (4)	TSP PM ₁₀ Pb	1.43 0.72 0.03	5.72 2.86 0.11
10 and 35	Furnace Fugitives (4)	TSP PM ₁₀ Pb Cd Trace Metals	1.83 1.83 0.27 0.01 <0.01	8.00 8.00 1.20 0.04 <0.04
36	Refining/Casting (4)	TSP PM ₁₀ Pb Trace Metals	0.03 0.03 <0.01 <0.01	0.10 0.10 <0.01 <0.01
52	Slag Handling (4)	TSP PM ₁₀	0.07 0.07	0.31 0.31

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			lb/hr	TPY
		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

(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

Pb - lead and lead compounds as lead

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

HCl - hydrochloric acid mist/fumes

H₂SO₄ - sulfuric acid mist/fumes

SiO₂ - silica

Cd - cadmium and cadmium compounds as cadmium

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

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Maximum Allowable Molten Lead Production Rates:

Reverberatory Furnace: 20 Tons/hour

Blast Furnace: 12 Tons/hour

Combined Maximum Molten Lead Production:

400 Tons/day and 72,000 Tons/year

Dated_____

