

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 594

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>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
4A	Gold Kettles Stack	PM ₁₀	2.2	7.6
		NO _x	2.7	9.2
		SO ₂	0.01	0.03
		CO	0.06	0.20
		VOC	0.05	0.16
		HNO ₃	6.3	22.0
4B	By-Products Stack 120.5	PM	27.5	
		PM ₁₀	14.4	63.1
		NO _x	0.84	3.7
		SO ₂	62.2	
			272.4	
		CO	113.7	
4C	Slimes Leach Tanks		498.2	
		VOC	32.5	
4D	Gold and Silver Melt Furnace		142.3	
		H ₂ SO ₄	0.02	0.09
4E	Slag Crusher	PM ₁₀	0.5	2.2
		SO ₂	0.02	0.10
		CO	1.1	4.8
		VOC	1.3	5.7
4F	Fugitives (4)	PM	0.6	2.65

PM ₁₀	0.35	1.51
NO _x	0.06	0.2
SO ₂	1.5	6.6
CO	2.7	12.1
VOC	0.8	3.6

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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) PM - particulate matter, suspended in the atmosphere, including PM₁₀. (including species)
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted (including species).
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in General Rule 101.1(Including Species)
 - HNO₃ - nitric acid
 - H₂SO₄ - sulfuric acid
- (4) Fugitive emissions are an estimate only.

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

Plant Operational: 24 Hrs/day 7 Days/week or 52 Weeks/year

Following operations limited to the indicated maximum annual operating hours:

Gold Kettles: 6,880 Hrs/year By-Products Stack: 8,760 Hrs/year

Slimes and Leach Tanks: 8,760 Hrs/year Gold and Silver
Melt Furnace: 8,760 Hrs/year

Slag Crusher: 4, 212 Hrs/year Fugitives: 8,760 Hrs/year

Maximum Annual Throughput: 2,000 tons charged to bottom blown oxygen
cupel and conventional cupel furnaces

Dated_____