

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 19430

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, sources, and related activities. 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 (6)	
			lbs/hour	TPY (4)
P-6	Rotary Furnace Baghouse/ Scrubber Stack (Rotary Furnace [FIN S-6])	PM (5)	0.44	1.91
		PM <sub>10</sub> (5)	0.44	1.91
		Pb	0.32	0.59
		SO <sub>2</sub>	10.27	44.97
		TRS	0.33	1.44
		VOC	3.87	16.95
		HBr	1.20	5.26
		HCl	0.40	1.75
		CO	0.08	0.37
		NO <sub>x</sub>	0.10	0.44
P-12	Shredder Baghouse Stack (2 Crucible Furnaces, 2-inch Rotary Shear Shredder [FINs S-12, and S-46 through S-47])	PM (5)	2.42	10.62
		PM <sub>10</sub> (5)	2.42	10.62
		Pb	0.04	0.06
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.02	0.08
		CO	0.28	1.21
		NO <sub>x</sub>	0.33	1.45
P-14	Hygiene Baghouse Stack (Ball Mill, Sample Prep Room, Treatment Tanks T-1 through T-4, Collection Tank T-5,	PM (5)	2.31	10.10
		PM <sub>10</sub> (5)	2.31	10.10
		Pb	1.01	2.22

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		HNO <sub>3</sub>	<0.01	0.03
		HCl	<0.01	<0.01
		NH <sub>3</sub>	0.43	1.85
		NaOH	<0.01	<0.01
P-15	Kettle Baghouse Stack (Refining Kettles Nos. 1 through 5 and Sweat Furnace [FINs S-1 through S-5, and S-7])	PM (5)	0.84	3.67
		PM <sub>10</sub> (5)	0.84	3.67
		Pb	0.10	0.11
		SO <sub>2</sub>	0.30	1.31
		TRS	0.30	1.31
		VOC	0.01	0.06
		CO	0.20	0.88
		NO <sub>x</sub>	0.24	1.05
P-16A-E	Refining Kettle Burners Stack (FINs S-1 through S-5 Products of Combustion)	PM	0.07	0.29
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.07	0.29
		CO	0.72	3.16
		SO <sub>2</sub>	<0.01	0.02
		NO <sub>x</sub>	0.86	3.76
		VOC	0.05	0.21
P-17	Blender/Dryer Baghouse Stack	PM (5)	0.40	1.77
		PM <sub>10</sub> (5)	0.40	1.77
		Pb	0.11	0.15
P-20	Wastewater Treatment Scrubber Stack (Reaction Tanks R-1 and R-2, FINs S-24 and S-48)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01

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		NH <sub>3</sub>	<0.01	<0.01
		NaOH	<0.01	<0.01
P-25	Blender/Dryer Burner Stack (FINs S-17 Products of Combustion)	PM	0.02	0.08
		PM <sub>10</sub>	0.02	0.08
		PM <sub>2.5</sub>	0.02	0.08
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.01	0.06
		CO	0.20	0.88
		NO <sub>x</sub>	0.24	1.05
Site Wide	All	Individual HAP	-	<10.0
		All HAP	-	<25.0

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- TRS - total reduced sulfur
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HBr - hydrogen bromide
- HCl - hydrochloric acid
- HNO<sub>3</sub> - nitric acid
- NH<sub>3</sub> - ammonia
- NaOH - sodium hydroxide
- Pb - lead
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) PM, PM<sub>10</sub> and PM<sub>2.5</sub> comprised of (but not limited to) copper and copper compounds, silver and silver compounds, nickel and nickel compounds, arsenic and arsenic compounds, cadmium and cadmium compounds, antimony and antimony compounds, lead and lead compounds, and tin and tin compounds.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

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Date: February 27, 2014