

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 38389

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)
1	Zinc Kettle Baghouse Stack  FINs: Zinc Kettle and MZR Unit	PM	0.096	0.29
		PM <sub>10</sub>	0.088	0.27
		PM <sub>2.5</sub>	0.079	0.24
		VOC	<0.001	<0.0002
		NO <sub>x</sub>	0.017	0.003
		SO <sub>2</sub>	<0.0001	<0.0001
		CO	0.014	0.0025
		NH <sub>4</sub> Cl	0.064	0.20
		ZnO	0.015	0.05
		ZnCl <sub>2</sub>	0.004	0.01
		Zn	0.005	0.02
		NH <sub>3</sub>	0.001	<0.01
BLDG1- FUG	Building No. 1 Fugitives (5)	PM	0.25	0.77
		PM <sub>10</sub>	0.23	0.76
		PM <sub>2.5</sub>	0.21	0.63
		NH <sub>4</sub> Cl	0.17	0.52
		ZnO	0.04	0.12
		ZnCl <sub>2</sub>	0.01	0.03
		Zn	0.013	0.04
		NH <sub>3</sub>	0.003	0.01

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5	Zinc Kettle Burner Stack	PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
		VOC	0.03	0.13
		NO <sub>x</sub>	0.55	2.40
		SO <sub>2</sub>	<0.01	<0.02
		CO	0.46	2.02
HEAT	Hot Water Heater Stack	PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.02	0.10
		NO <sub>x</sub>	0.29	1.29
		CO	0.25	1.08
		VOC	<0.02	0.07
		SO <sub>2</sub>	<0.002	<0.01
SCRUB-1	HCl Tank Scrubber 1 Stack	HCl	0.015	0.03
SCRUB-2	HCl Tank Scrubber 2 Stack	HCl	0.015	0.03
BLDG2-FUG	Building No. 2 Fugitives (5)	HCl	0.09	0.16
		NaOH	0.032	0.14
		Na <sub>2</sub> SiO <sub>3</sub> -5H <sub>2</sub> O)	0.032	0.14
		ZnCl <sub>2</sub>	0.064	0.28
		NH <sub>4</sub> Cl	0.055	0.24

- (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

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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
HCl	- hydrogen chloride
NH <sub>4</sub> Cl	- ammonium chloride
ZnO	- zinc oxide
ZnCl <sub>2</sub>	- zinc chloride
Zn	- zinc
NH <sub>3</sub>	- ammonia
NaOH	- sodium hydroxide
Na <sub>2</sub> SiO <sub>3</sub> ·5H <sub>2</sub> O	- sodium metasilicate pentahydrate

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: September 9, 2013