

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 1790

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	
			lbs/hour	TPY (4)
05LTR-034	KA Trailer Loading	VOC	0.36	0.03
05LBA-048	KA Barge Loading	VOC	1.07	0.61
PD-4	West Cone Burner (6)	CO	5.10	22.30
		NO <sub>x</sub>	52.90	39.80
		VOC	0.10	0.44
PD-5	East Cone Burner (6)	See footnote	--	--
05FUG-050	KA Fugitives (5)	VOC	1.43	6.26
MEOH-FUG	Methanol Area Fugitives (5)	VOC	0.46	2.01
		HNO <sub>3</sub>	0.36	1.58
FD-27/28	AA Plant Fugitives (5)	VOC	0.04	0.17
		HNO <sub>3</sub>	0.01	0.01
FC-10	Fugitives (5)	HNO <sub>3</sub>	0.02	0.06
		NH <sub>3</sub>	0.05	0.20
		NO <sub>x</sub>	0.02	0.07
		N <sub>2</sub> O	0.01	0.01
05TFL-07B	No. 3 Cyane Tank	VOC	0.34	0.38
05TFL-07C	No. 4 Cyane Tank	VOC	0.33	0.38
05TFL-07D	No. 6 De-Inventory Tank	VOC	0.09	0.31
05TFX-049	Portable Diesel Tank	VOC	0.25	0.01
PJ-14I	Methanol Tank No. 42	VOC	0.143	0.12
PC-12	Ammonia Flare (MSS)	CO	39.10	23.22

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		NH <sub>3</sub>	4.50	1.01
		NO <sub>x</sub>	6.81	3.22
		VOC	0.46	0.28
		SO <sub>2</sub>	0.01	0.01
MSS FUG	MSS Emissions to Atmosphere (MSS)	CO	6.71	1.21
		NO <sub>x</sub>	5.84	1.38
		PM	0.23	0.16
		PM <sub>10</sub>	0.23	0.16
		PM <sub>2.5</sub>	0.23	0.16
		SO <sub>2</sub>	0.01	0.01
		VOC	151.19	2.16

- (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)
  - CO - carbon monoxide
  - NH<sub>3</sub> - ammonia
  - NO<sub>x</sub> - total oxides of nitrogen
  - N<sub>2</sub>O - nitrous oxide
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - 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.
  - SO<sub>2</sub> - sulfur dioxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - HNO<sub>3</sub> - nitric acid
- (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) The holder of this permit, at his option, may emit all or part of the emissions allowed from the West Cone Burner (EPN PD-4) through the East Cone Burner (EPN PD-5). The sum of all emissions from both EPNs PD-4 and PD-5 may not exceed the maximum allowable emission rates shown for EPN PD 4.

Date: November 29, 2016