

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 1105

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)
004LAB	LAB Emissions	VOC	0.01	0.01
004LR1	Loading Vent (6)	VOC	11.91	5.24
004LT41	Loading Vent (6)	VOC	11.60	1.72
004WR	Truck Vent	VOC	1.44	0.01
004T67	Storage Tank	VOC	0.01	0.01
004T330	Storage Tank	VOC	0.01	0.01
004T331	Storage Tank	VOC	0.01	0.01
004T332	Storage Tank	VOC	0.01	0.01
004T333	Storage Tank	VOC	0.01	0.01
005FL1	Flare (Vent Gas System)	CO	13.65	65.28
		NO <sub>x</sub>	0.59	2.02
		SO <sub>2</sub>	0.01	0.04
		VOC	6.93	24.91
008LR1	Loading Vent	VOC	7.48	0.15
022LT51	Loading Vent	VOC	7.55	0.15
022T109	Storage Tank	VOC	0.11	0.08
022T113	Storage Tank (7) (Liq Fd)	VOC	0.03	0.04
	Storage Tank (7) (HPr)	VOC	1.00	1.66
022T114	Storage Tank	VOC	0.75	1.20
023T135	Storage Tank	VOC	0.42	0.77
027FL1	Flare (Product Storage and Loading) (6)	CO	5.31	0.92
		NO <sub>x</sub>	2.66	0.46
		SO <sub>2</sub>	0.01	0.01
		VOC	26.99	4.67
027T167	Storage Tank	VOC	4.91	0.28
		Hydrogen Fluoride	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

050T421	Storage Tank	VOC	0.06	0.04
053T1	Storage Tank	VOC	0.07	0.01
053T284	Storage Tank	VOC	0.01	0.01
053T304	Storage Tank	VOC	0.03	0.01
100T33	Storage Tank (8) (i-HBu)	VOC	0.71	1.29
	Storage Tank (8) (n-HBu)	VOC	0.52	0.99
100T34	Storage Tank (8) (i-HBu)	VOC	0.75	1.36
	Storage Tank (8) (n-HBu)	VOC	0.54	1.04
053MNT1	Maintenance Emissions	CO	0.05	0.02
		VOC	21.71	3.86
053GA1	Analyzer Vent	CO	0.59	2.17
		VOC	0.21	0.91
		Other Air Contaminant (Argon)	0.01	0.03
053H1	Heater Stack	CO	0.19	0.04
		NO <sub>x</sub>	0.22	0.04
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.01
		PM	0.02	0.01
		PM <sub>10</sub>	0.02	0.01
		PM <sub>2.5</sub>	0.02	0.01
135VS1	PC02A Vent Valve	CO	5.95	9.78
F053FG1	Process Fugitives (5)	CO	7.58	33.22
		H <sub>2</sub> S	0.11	0.47
		VOC	17.54	76.84
F053WW1	Steam Stripper Wastewater Emissions	VOC	2.80	9.20

- (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
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - H<sub>2</sub>S - hydrogen sulfide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter including PM<sub>2.5</sub>
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

Emission Sources - Maximum Allowable Emission Rates

- (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) Emissions are for this permit production unit only. The emissions are in addition to those authorized from the Emission Point through other permits.
- (7) EPN 022T113 can store POx Liquid Feed (Liq Fd) or Propionaldehyde (HPr), as reflected in the two different MAERT limits.
- (8) EPNs 100T33 and 100T34 can store Isobutyraldehyde (i-HBu) or Normal-Butyraldehyde (n-HBu), as reflected in the two different MAERT limits and as described in Special Condition 14.F. of the permit. These rates are not additive.

Date: September 28, 2023