

Emission Sources - Maximum Allowable Emission Rates

Permit Number 47170

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)
E-1 through E-12	Thermal Treatment Units E-1 through E-12, combined)	NO _x	3.08	1.83
		CO	33.09	23.31
		PM/PM ₁₀ /PM _{2.5}	5.62	3.94
		VOC	29.82	21.16
		SO ₂	0.05	0.03
		Lead	0.06	0.04
		HCl	4.56	1.46
		Acetylene	0.019	0.006
		Aldehydes	0.31	0.22
		Benzene	0.016	0.005
		Methylcyclohexane	0.015	0.002
		n-Decane	0.367	0.106
		Ethylbenzene	0.006	0.004
		Ethylene	0.011	0.005
		m-Ethyltoluene	0.026	0.008
		p-Ethyltoluene	0.031	0.009
		o-Ethyltoluene	0.008	0.003
		n-Heptane	0.012	0.004
		Cyclohexane	0.033	0.010
		NO	0.163	0.047

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E-1 through E-12	Thermal Treatment Units E-1 through E-12, combined)	NO ₂	0.009	0.003
		n-Nonane	0.204	0.059
		n-Octane	0.051	0.015
		n-Pentane	0.031	0.009
		1-Pentene	0.009	0.003
		trans-2-Pentene	0.012	0.004
		PAH	0.003	0.002
		Sulfur trioxide	0.005	0.003
		Toluene	0.204	0.059
		Zinc	0.013	0.004
		Benzo(a)anthracene	5.92E-04	1.07E-05
		Benzo(a)pyrene	9.36E-06	6.17E-06
		1,3-Butadiene	2.45E-04	7.10E-05
		i-Butane	2.45E-04	7.10E-05
		n-Butane	1.62E-05	2.72E-04
		i-Butene	9.38E-04	1.18E-04
		trans-2-Butene	4.08E-04	1.72E-04
		Cyclopentane	3.06E-04	8.87E-05
		Dibenzofuran	3.00E-05	1.98E-05
		2,4-Dinitrotoluene	1.85E-05	1.22E-05
		2,6-Dinitrotoluene	1.62E-05	1.07E-05
E-1 through E-12	Thermal Treatment Units E-1 through E-12,	n-Hexane	3.26E-03	9.46E-05
		1-Hexene	4.49E-04	1.30E-04

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	Methylcyclopentane	2.02E-03	5.86E-04
	2-Nitronaphthalene	9.59E-06	6.32E-06
	Naphthalene	1.73E-05	1.14E-05
	Nitric Acid	6.10E-04	3.98E-04
	N ₂ O	5.40E-04	3.24E-04
	OCDD	2.04E-09	5.92E-10
	Ozone	3.51E-06	1.69E-06
	Phenol	9.24E-04	6.09E-04
	Propane	3.26E-03	9.46E-04
	Propene	4.49E-04	1.30E-04
	Pyrene	3.70E-05	2.44E-05
	1,3,5-Trinitrobenzene	6.12E-07	4.04E-07
	2,4,6-Trinitrotoluene	7.39E-06	4.87E-06

(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_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- NO - nitrogen oxide
- NO₂ - nitrogen dioxide
- N₂O - nitrous oxide
- HCl - hydrogen chloride
- Pb - lead
- OCDD - octochlorodibenzo-p-dioxin
- PAH - total polycyclic aromatic hydrocarbons

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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