

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9597

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. 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 *	
			lb/hr	TPY**
Y-C-1	Furnace F-9180	VOC	0.03	0.12
		PM ₁₀	0.04	0.17
		NO _x	0.49	2.15
		CO	0.42	1.81
		SO ₂	0.01	0.01
Y-C-101	Furnace F-91180	VOC	0.04	0.16
		PM ₁₀	0.05	0.22
		NO _x	0.64	2.80
		CO	0.54	2.35
		SO ₂	0.01	0.01
Y-C-201	Furnace F-91280	VOC	0.09	0.39
		PM ₁₀	0.04	0.19
		NO _x	0.23	1.01
		CO	0.15	0.65
		SO ₂	0.01	0.01
Y-C-301	Furnace F-91380	VOC	0.09	0.39
		PM ₁₀	0.04	0.19
		NO _x	0.23	1.01
		CO	0.15	0.65
		SO ₂	0.01	0.01
Y-D-1	Organic Flare X-9845	VOC	3.49	4.15
		NO _x	0.28	0.55
		CO	1.99	3.96
		SO ₂	0.01	0.01

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			lb/hr	TPY**
Y-D-201	Organic Flare X-98245	VOC	3.54	4.25
		NO _x	0.28	0.57
		CO	2.04	4.14
		SO ₂	0.01	0.01
Y-D-2	Inorganic Flare X-9846	VOC	5.00	0.56
		NO _x	0.22	0.81
		PM ₁₀	13.25	4.99
		CO	1.12	4.12
		SO ₂	0.01	0.01
Y-D-3	Caustic Scrubbers R-9450/R-9460	VOC	0.48	2.10
		Silane Compounds	4.58	20.07
Y-D-203	Caustic Scrubbers R-94260/R-94261	VOC	0.87	3.81
		Silane Compounds	0.91	3.98
Y-D-4	LUWA Scrubber R-94150	VOC	0.05	0.23
		SiF ₄	0.14	0.60
		Silane Compounds	0.63	2.75
Y-D-204	LUWA Scrubber R-94250	VOC	0.05	0.23
		SiF ₄	0.14	0.60
		Silane Compounds	0.63	2.75
Y-E-1	Seal Pot D-9102 Vent	VOC	0.01	0.01
Y-E-201	Seal Pot D-91232 Vent	VOC	0.01	0.01
Y-E-2	Oil Scrubbers D-9104/D-91104	VOC	0.21	0.80
		PM ₁₀	1.86	0.79
		PM _{2.5}	1.86	0.79
Y-E-202	Oil Scrubbers	VOC	0.21	0.80

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			lb/hr	TPY**
	D-91204/D-91214	PM ₁₀	1.86	0.79
		PM _{2.5}	1.86	0.79
Y-E-3	HCl Scrubber S-9550	HCl	0.08	0.34
Y-E-303	HCl Scrubber S-9570	HCl	0.08	0.34
Y-E-4	Baghouse 9600 Area	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
Y-E-4A	Baghouse 9600 Area	PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
Y-E-5	Baghouse PA-21 Area	PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
Y-E-105	Baghouse PA-22 Area	PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
Y-E-205	Baghouse PA-23 Area	PM ₁₀	0.06	0.25
		PM _{2.5}	0.06	0.25
Y-E-206	Baghouse PA-23 Area	PM ₁₀	0.06	0.25
		PM _{2.5}	0.06	0.25
Y-E-305	Baghouse PA-24 Area	PM ₁₀	0.06	0.25
		PM _{2.5}	0.06	0.25
Y-E-420	Baghouse 9600 Area	PM ₁₀	0.01	0.01
Y-E-421	Baghouse 9600 Area	PM ₁₀	0.01	0.01
Y-E-7	Vent VP-9840/VP-9841	VOC	0.04	0.17

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Y-E-17	Vent VP-9394	VOC	0.01	0.03
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
Y-E-17A	Vent VP-9395A/VP-9395B	VOC	0.08	0.33
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
Y-E-207	Vent VP-98240/VP-98241	VOC	0.04	0.17
Y-GZ-1	Fugitives (4)	VOC	7.97	34.90
		HCl	0.22	0.98
		SiF ₄	0.36	1.56
		Silane Compounds	3.76	16.47
Y-GZ-2	SAF Powder Bulk Loading PA-21/PA-22 Fugitives (4)	VOC	0.01	0.01
		PM ₁₀	0.94	0.86
Y-GZ-202	SAF Powder Bulk Loading PA-23 Fugitives (4)	VOC	0.01	0.01
		PM ₁₀	0.56	0.51
Y-GZ-302	SAF Powder Bulk Loading PA-24 Fugitives (4)	VOC	0.01	0.01
		PM ₁₀	0.56	0.51
ABRASMINT	Abrasive Blasting	PM	1.29	0.07
		PM ₁₀	0.15	0.01
COLUMNMSS	Column MSS Sitewide	VOC	0.39	0.01
		NaOH	1.32	0.01
PMP/FILMS	Pump/Filter MSS Sitewide	VOC	0.17	0.02
EXCHMSS	Exchanger MSS Sitewide	VOC	4.29	0.38
TANKMSS	Tank/Agitator MSS Sitewide	VOC	0.50	0.01

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		SiF ₄	0.07	0.04
		NaOH	0.61	0.01
DRUMMSS	Drum/Furnace/Agitator MSS Sitewide	VOC	2.97	0.02
BAGHSEMSS	Baghouse MSS Sitewide	PM ₁₀	1.00	0.10
WELDMSS	Welding	PM ₁₀	0.28	0.01
		HAP	0.02	0.01
AEROSOLMSS	Aerosol MSS Sitewide	VOC	0.85	0.02
VACUUMMSS	Vacuum MSS Sitewide	VOC	0.14	0.01
Y-D-1 MSS	Organic Flare	VOC	3.53	0.04
		SiH ₄	0.68	0.01
Y-D-2 MSS	Inorganic Flare	VOC	0.43	0.01
Y-D-201 MSS	Organic Flare	VOC	3.57	0.04
Y-E-404 MSS	Wastewater Holdup Tank	VOC	0.09	0.38

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3)
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - PM - particulate matter
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - SiF₄ - silicon tetrafluoride
 - HCl - hydrogen chloride
 - NaOH - sodium hydroxide
 - HAP - hazardous air pollutants
 - SiH₄ - silane (silicon tetrahydride)
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated: June 15, 2011