

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3855B

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
F-P01	Fugitives (4)	VOC		3.5
		HCl		0.6
		VCM		3.0
F-P-13D	"D" Oxy-Chlorination Reactor		VOC	0.21
	0.90			
	Process Fugitives (4)	HCl	0.08	0.35
F-P03B	Chlorine Unloading Fugitives (4)		Cl ₂	0.06
	0.27			
IND102A	Boiler A	PM ₁₀	1.90	8.30
		SO ₂	0.10	0.30
		NO _x	25.90	113.0
		CO	2.10	9.30
		VOC	0.40	1.60
IND102B	Boiler B	PM ₁₀	1.90	8.30
		SO ₂	0.10	0.30
		NO _x	25.90	113.0
		CO	2.10	9.30
		VOC	0.40	1.60
IND102C	Boiler C	PM ₁₀	1.90	8.30
		SO ₂	0.10	0.30
		NO _x	25.90	113.0
		CO	2.10	9.30
		VOC	0.40	1.60
IND103	Cracking Furnace 103	PM ₁₀	0.90	3.50

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		SO ₂	0.08	0.17
		NO _x	11.90	47.30
		CO	1.00	3.90
		VOC	0.20	1.00

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
IND104	Cracking Furnace 104	PM ₁₀	0.90	3.50
		SO ₂	0.08	0.17
		NO _x	11.90	47.30
		CO	1.00	3.90
		VOC	0.20	1.00
IND105	Cracking Furnace 105	PM ₁₀	0.90	3.50
		SO ₂	0.08	0.17
		NO _x	11.90	47.30
		CO	1.00	3.90
		VOC	0.20	1.00
IND106	Cracking Furnace 106	PM ₁₀	0.90	3.50
		SO ₂	0.08	0.17
		NO _x	11.90	47.30
		CO	1.00	3.90
		VOC	0.20	1.00
IND107	Cracking Furnace 107	PM ₁₀	0.90	3.50
		SO ₂	0.08	0.17
		NO _x	4.00	17.5
		CO	1.0	3.9
		VOC	0.20	1.00
IND109	Cracking Furnace 109	PM ₁₀	0.90	3.50
		SO ₂	0.08	0.17
		NO _x	4.0	17.5
		CO	1.0	3.9
		VOC	0.20	1.00
IND101A	Incinerator A	VOC	2.00	8.80
		NO _x	6.12	26.79
		CO	2.21	9.43
		SO ₂	0.10	0.40
		PM ₁₀	2.00	8.80
		HCl	2.00	8.81
		Cl ₂	4.00	17.50

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		VCM	0.05	0.22

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
IND101B	Incinerator B	VOC	2.00	8.80
		NO _x	6.12	26.79
		CO	2.21	9.43
		SO ₂	0.10	0.40
		PM ₁₀	2.00	8.80
		HCl	2.00	8.81
		Cl ₂	4.00	17.50
		VCM	0.05	0.22
CYC-1	Decoking Cyclone	CO	43.8	3.2
EEDC-SUMP	East EDC Tank Farm Sump	EDC	<0.01	<0.01
EDCTF-SUMP	EDC Tank Farm Sump	EDC	<0.01	<0.01
IM-SUMP	Intermediate Sump	EDC	<0.01	<0.01
LTC SUMP	LTC Sump	EDC	<0.01	<0.01
N01-SUMP	No. 1 Sump	EDC	<0.01	<0.01
N02-SUMP	No. 2 Sump	EDC	<0.01	<0.01
COXY-SUMP	C-Oxy Sump	EDC	<0.01	<0.01
EOXY-SUMP	E-Oxy Sump	EDC	<0.01	<0.01
HYDRO-SUMP	Hydroblast Pad Sump	EDC	<0.01	<0.01
HYDRO-WEIR	Hydroblast Pad Weir	EDC	0.14	0.62
		VCM	0.07	0.31
WW-1	Wastewater Treatment	EDC	0.17	0.42
		CHCl ₃	0.35	0.87
LAB-SUMP	Lab Sump	EDC	0.05	0.21
DEGREASER	Degreaser	VOC	0.08	0.24

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
FB-6473	LOPS Tank	VOC	0.08	0.03
GT-1	Gasoline Storage Tank	Gasoline	44.23	1.13
DT-1-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-2-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-3-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-4-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-5-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-6-UTIL	Diesel Storage Tank	Diesel	0.01	<0.01
DT-7-EG	Diesel Storage Tank	Diesel	0.01	<0.01
FA-4605	10 Percent Hydrochloric Acid Tank <0.01	HCl		0.10
FA-4609	10 Percent Hydrochloric Acid Tank <0.01	HCl		0.10
FA-4610	10 Percent Hydrochloric Acid Tank <0.01	HCl		0.10
FA-3204	10 Percent Ethylene Glycol Tank <0.01	EG		0.10
FB-6404	Sodium Hydroxide Tank	NaOH	0.49	0.07
FB-6480	Sodium Hydroxide Tank	NaOH	0.20	0.03
FB-6470	Solvent Storage Tank	VOC	25.74	0.96

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COOLTWR	Cooling Tower	PM	<0.01	<0.01
		Cl ₂	0.91	4.00
COOLTWR-2	Cooling Tower	PM	<0.01	<0.01
		Cl ₂	0.91	4.00
E1-E5	Firewater Pump Diesel Engines FOR EMERGENCY USE ONLY			
E6	Emergency Generator Diesel EngineFOR EMERGENCY USE ONLY			

- (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 General Rule 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM₁₀ - particulate matter less than 10 microns in diameter
 - PM - total particulate matter (including PM₁₀)
 - CO - carbon monoxide
 - HCl - hydrogen chloride
 - Cl₂ - chlorine
 - VCM - vinyl chloride monomer
 - EDC - ethylene dichloride
 - CHCl₃ - chloroform
 - EG - ethylene glycol
 - NaOH - sodium hydroxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

_____Hrs/day _____Days/week _____Weeks/year or 8,760Hrs/year

Dated _____