

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9459

This table lists the maximum allowable emission rates for all sources covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1) (4)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
07	EPI Bottle Room	IC	0.37	0.47
08A and 08B	EPI 103, 104, 105, and 106	IC	0.22	0.93
14	Photo	VOC	0.15	0.64
18	WJ002	IC	0.08	0.29
19	WJ001	IC	0.08	0.29
21	Silane Burn Tubes	IC	0.01	0.01
24	Phase II North General Exhausts - 182B37	ES	0.04	0.16
		IC	0.02	0.04
		VOC	0.02	0.08
27	Implant	IC	0.10	0.15
55	South-Side General Exhaust - 106C106	ES	0.08	0.33
		IC	0.01	0.02
		VOC	0.20	0.85
62	South Side General Exhaust - 124B101	IC	0.05	0.05
		VOC	0.03	0.08
67	Surface Analysis Lab	IC	0.02	0.02
		VOC	0.02	0.09
75	B1 Boiler (Boil 1)	PM	0.13	0.37
		VOC	0.07	0.27
		SO ₂	4.28	0.14
		NO _x	1.21	4.69

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			lb/hr	TPY
		CO	0.90	3.93
85	B1 Boiler (Boil 2)	PM	0.14	0.58
		VOC	0.10	0.42
		SO ₂	0.01	0.05
		NO _x	1.68	7.32
		CO	1.41	6.15
95	B1 Boiler (Boil 3)	PM	0.19	0.44
		VOC	0.08	0.32
		SO ₂	6.42	0.20
		NO _x	1.81	5.56
		CO	1.06	4.65
116	Solvent MCV Room	VOC	5.30	0.66
129	Cafeteria Boiler	PM	0.04	0.14
		VOC	0.03	0.10
		SO ₂	0.01	0.02
		NO _x	0.42	1.80
		CO	0.35	1.51
133	Source Rebuild Exhaust	IC	0.04	0.04
140	Rotary Concentrator	ES	0.01	0.03
		VOC 0.27	1.35	
		VOC 9.55 (5)		
143	Implant West	IC	0.09	0.14
144	WJ003	IC	0.08	0.29
145	Silane Burn Tube	IC	0.01	0.01

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			lb/hr	TPY
202	Houston Device	IC	0.26	0.26
	Analysis Organization	IC	0.76 (5)	
203	Houston Device	ES	0.02	0.05
	Analysis Organization	IC	0.02	0.02
		VOC	1.24	0.08
209	B2 Emergency Generator	PM	0.01	0.01
		VOC	0.01	
		SO ₂	0.01	
		NO _x	1.65	0.09
		CO	2.55	0.13
211	B2 Boiler (Boil 5)	PM	0.01	0.02
		VOC	0.01	0.01
		SO ₂	0.01	0.01
		NO _x	0.04	0.16
		CO	0.03	0.13
219	B2 Boiler (Boil 6)	PM	0.06	0.15
		VOC	0.03	0.11
		SO ₂	2.14	0.08
		NO _x	1.82	
		CO	0.35	1.52
303	Welding Shop	IC	0.05	0.05
316	Mod A Boiler (Boil 7)	PM	0.02	0.09
		VOC	0.02	0.07
		SO ₂	0.01	0.01
		NO _x	0.27	1.16
		CO	0.23	0.97
419	HF Treatment through Thermal Oxidizer	IC	2.00	7.00
		PM	0.28	0.50

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			lb/hr	TPY
		VOC	0.01	0.01
		SO ₂	0.12	0.20
		NO _x	5.00	
		CO	2.00	
425	IW Generators	PM	0.01	0.01
		VOC	0.01	
		SO ₂	0.01	
		NO _x	0.03	
		CO	0.05	
428	Thermal Oxidizer	ES	0.01	0.02
		ES	0.05 (5)	
		PM	0.41	
		VOC	12.79	18.85
		VOC	36.50 (5)	
		SO ₂	0.01	0.04
		NO _x	23.79	
		CO	12.60	
431	Fuel Oil Tank	VOC	0.03	0.04
432	Spent Solvent Tank	VOC	0.06	0.12
439	Chlorine Room	IC	0.02	0.01
441	Site Utilities Fuel Oil Tank	Fuel Oil	0.83	0.04
442	Site Utilities Emergency Generator	PM	0.01	0.01
		VOC	0.12	0.01
		SO ₂	0.01	0.01
		NO _x	0.04	
		CO	0.17	
448	Diesel Fire Pump	PM	0.84	0.03
		VOC	0.03	

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			lb/hr	TPY
		SO ₂	0.78	0.03
		NO _x	11.73	0.37
		CO	2.54	0.08
451	B1 Emergency Generator	PM	2.66	0.30
		VOC	3.04	0.34
		SO ₂	2.49	0.28
		NO _x	37.41	4.12
		CO	8.06	0.89
452	Scrubber Yard	IC	3.10	12.54
		ES	5.31	22.57
		VOC	0.49	2.12
		SO ₂	0.11	0.40
453	Emergency Generators	PM	1.04	0.06
		VOC	1.19	0.06
		SO ₂	0.97	0.05
		NO _x	13.89	0.70
		CO	3.09	0.16
All	All Sources	Single HAP		<10.00
		Combined HAP		<25.00

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1)

ES - VOC specifically excluded from the definition of VOC as defined in 30 TAC § 101.1

HAP - hazardous air pollutant as defined in Title 40 Code of Federal Regulations Part 63, Subpart A.

IC - non organic compounds including acids, bases, reactives, metals, and reactant gases.

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be

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(4)				

assumed that
no particulate
matter
greater than
10 microns is
emitted.

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

(4) Rate is for a rolling consecutive 12-month period.

(5) Rate for uncontrolled emissions during routine/preventative maintenance.

Dated September 5, 2003