

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21769

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 *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
A1	Fume Incinerator Stack (5) 16.72	PM ₁₀		4.10
		VOC	0.67	2.79
		NO _x	1.56	6.51
		SO ₂	22.34	93.20
		CO	11.37	47.43
		HCl	6.56	2.67
		HAPS	0.891	4.40
A2	Asphalt Preheater No. 2 (5) 0.28	PM ₁₀		0.064
	Stack	NO _x	0.84	3.67
		SO ₂	0.005	0.022
		CO	0.703	3.08
		VOC	0.05	0.20
		HAPS	0.0008	0.0034
A106	SBS Tank	PM ₁₀	0.285	0.312
		CO	0.13	0.55
		VOC	10.11	11.07
		H ₂ S	0.154	0.68
A15 and A16	Asphalt Truck (4 and 6) 0.29	PM		0.98
	Loading Racks	PM ₁₀	0.10	0.03
		CO	0.26	0.03
		VOC	3.49	1.04
		H ₂ S	0.044	0.015

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
A109 and A110	Asphalt Unloading System (4)	PM	0.0006	0.0013
		PM ₁₀	0.0001	0.0001
		CO	0.169	0.211
		VOC	0.002	0.005
		H ₂ S	0.206	0.257
A123	Cutter Stock Loading (4)	VOC	0.48	2.11
A120, A12, A7, and A9	Pouring Sheds (7)	PM	3.12	0.91
		PM ₁₀	0.31	0.09
		CO	0.07	0.038
		VOC	11.31	3.36
		H ₂ S	0.002	0.0009
		Vinyl Acetate	2.88	1.56
A122 and R86A	Asphalt Solvent Cold Cleaner (4 and 7)	VOC	0.151	0.66
A124	RTO 1 (5)	PM ₁₀	1.34	1.17
		CO	0.18	0.18
		SO ₂	3.99	12.49
		VOC	4.76	4.15
		HAPS	0.141	0.589
A125	RTO 2 (5)	PM	0.49	0.55
		CO	0.92	1.37
		SO ₂	8.03	16.85

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	1.73	1.95
		H ₂ S	0.14	0.28
A97	Tank 12	VOC	0.445	0.014
A62	Tank 51	VOC	0.442	0.008
A68, A69, A76, A77, A94, and A102	Tank Burners (5 and 7) 0.16	PM ₁₀		0.04
		SO ₂	0.003	0.013
		NO _x	0.48	2.102
		CO	0.403	1.77
		VOC	0.026	0.116
		HAPS	<0.001	<0.002
A75	Tank 28 Burner (5)	PM ₁₀	0.01	0.03
		SO ₂	0.001	0.003
		NO _x	0.10	0.44
		CO	0.09	0.37
		VOC	0.006	0.024
		HAPS	<0.0001	<0.0004
A64, A65, A70, A71, A72, A127 and A129	Tank Burners (5 and 7)	PM ₁₀	0.08	0.35
		SO ₂	0.006	0.03
		NO _x	1.05	4.60
		CO	0.88	3.86
		VOC	<0.06	0.25
		HAPS	<0.00014	<0.0006

(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.

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<u>Emission</u> *	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission Rates</u>
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>
(3) PM	-	particulate matter, suspended in the atmosphere, including PM ₁₀ .	
PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.	
VOC	-	volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1	
NO _x	-	total oxides of nitrogen	
SO ₂	-	sulfur dioxide	
CO	-	carbon monoxide	
HCl	-	hydrogen chloride/hydrochloric acid	
H ₂ S	-	hydrogen sulfide	
HAPS	-	any of the Section 112(b), Federal Clean Air Act named compounds	

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- (4) Fugitives emissions are an estimate only.
- (5) Hazardous Air Pollutants emissions are included in the PM and VOC allowable emission rates and the speciated values are reflected on the Table 1(a)s submitted with the permit amendment application.
- (6) Emission rates are the sum of the emission rates for both A15 and A16.
- (7) Emission rates reflect the sum of emissions from all the listed emission points.

* Emission rates are based on and the facilities are limited by the

following maximum operating schedule and throughputs:

Hrs/day 24 Days/week 7 Weeks/year 52 or
Hrs/year 8,760

Maximum hourly and annual throughputs of oxidized and unoxidized asphalt as shown by the **Addendum** in the confidential file.

A maximum natural gas usage of 7,737,600 SCF per month by the fume incinerator.

Dated _____