

Emission Sources - Maximum Allowable Emission Rates

Permit Number 112501

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 (6)	
			lbs/hour	TPY (4)
X01	Filler Dryer Bin and Hopper Dust Collector Stack (TF1, TF2, TF4-TF12, Primary Crusher CF1, Secondary Crushers CF2 & CF3, and Fill-Dry Bin)	PM	0.21	0.86
		PM ₁₀	0.21	0.86
		PM _{2.5}	0.18	0.73
X02A	Filler Storage Silo A Dust Collector Stack	PM	0.08	0.32
		PM ₁₀	0.08	0.32
		PM _{2.5}	0.03	0.11
X03	Filler Receiving Bin A Dust Collector Stack	PM	0.04	0.15
		PM ₁₀	0.04	0.15
		PM _{2.5}	0.01	0.05
X04	Filler Heater A Dust Collector Stack	PM	0.09	0.37
		PM ₁₀	0.09	0.37
		PM _{2.5}	0.03	0.13
X07	Granules Handling Dust Collector Stack (TF22-TF35, and TF56)	PM	0.94	3.77
		PM ₁₀	0.94	3.77
		PM _{2.5}	0.33	1.33
X08	Afterburner Stack (Asphalt Blowing Stills 1 and 2)	PM	1.59	4.73
		PM ₁₀	1.49	4.45
		PM _{2.5}	1.24	3.69
		NO _x	1.01	3.63

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		CO	0.86	3.11
		SO ₂	0.01	0.02
		VOC	0.67	2.03
		HCl	1.17	3.48
		HAP	1.17	3.49
X09	Coating Pre-Heater Stack	PM	0.03	0.10
		PM ₁₀	0.03	0.10
		PM _{2.5}	0.03	0.10
		NO _x	0.40	1.29
		CO	0.35	1.11
		SO ₂	<0.01	0.01
		VOC	0.02	0.07
X10	Shingle Production Mist Eliminator Stack (Asphalt Mixer and Coater)	PM	1.75	7.02
		PM ₁₀	1.53	6.11
		PM _{2.5}	0.78	3.12
		VOC	0.06	0.25
		HAP	0.03	0.11
X11	Main Line Dust Collector Stack TF13-TF16, TF18, TF20, TF21, TF36, TF37, TF39-TF43, and TF48-TF54, SP01-SPO-3	PM	1.75	7.02
		PM ₁₀	1.53	6.11
		PM _{2.5}	0.78	3.12
		VOC	0.06	0.25
		HAP	0.03	0.11

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X12	Shingle Production Mist Eliminator Stack (Laminator/Adhesive Applicators)	PM	1.75	7.02
		PM ₁₀	1.53	6.11
		PM _{2.5}	0.78	3.12
		VOC	0.06	0.25
		HAP	0.03	0.11
X13	Shingle Production Mist Eliminator Stack (Laminator/Adhesive Applicators)	PM	1.75	7.02
		PM ₁₀	1.53	6.11
		PM _{2.5}	0.78	3.12
		VOC	0.06	0.25
		HAP	0.03	0.11
X10, X11, X12, and X13 CAP	Asphalt Shingle Manufacturing Process Mist Eliminators and Dust Collector Stacks (Total For X10, X11, X12, and X13)	PM	1.75	7.02
		PM ₁₀	1.53	6.11
		PM _{2.5}	0.78	3.12
		VOC	0.06	0.25
		HAP	0.03	0.11
X12A	Laminate/Adhesive Dissolver, Mixer, and Storage Mist Eliminator Stack	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC	0.03	0.02
		CO	0.09	0.37
		SO ₂	0.03	0.13
X14	Tank Mist Eliminator Stack (Asphalt Flux Storage Tanks 1 and 2)	VOC	<0.01	0.01
X15	Crusher Heater Line A Stack (Crusher Heater and Secondary Crusher)	PM	0.82	3.28
		PM ₁₀	0.82	3.28

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		PM _{2.5}	0.82	3.28
		NO _x	1.01	4.03
		CO	0.86	3.46
		SO ₂	0.01	0.02
		VOC	0.06	0.23
X16	Crusher Heater Line B Stack (Crusher Heater and Secondary Crusher CF3)	PM	0.82	3.28
		PM ₁₀	0.82	3.28
		PM _{2.5}	0.82	3.28
		NO _x	1.01	4.03
		CO	0.86	3.46
		SO ₂	0.01	0.02
		VOC	0.06	0.23
X15 and X16 CAP	Crusher Heater Lines A and B Stack	PM	0.82	3.28
		PM ₁₀	0.82	3.28
		PM _{2.5}	0.82	3.28
X17	Thermal Oil Heater Stack	PM	0.13	0.44
		PM ₁₀	0.13	0.44
		PM _{2.5}	0.13	0.44
		NO _x	0.88	5.72
		CO	1.40	4.91
		SO ₂	0.01	0.04
		VOC	0.09	0.32
X18	Thermal Oil Heater Stack	PM	0.13	0.44
		PM ₁₀	0.13	0.44
		PM _{2.5}	0.13	0.44
		NO _x	0.88	5.72

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		CO	1.40	4.91
		SO ₂	0.01	0.04
		VOC	0.09	0.32
X19	Thermal Oil Heater Stack	PM	0.13	0.44
		PM ₁₀	0.13	0.44
		PM _{2.5}	0.13	0.44
		NO _x	0.88	5.72
		CO	1.40	4.91
		SO ₂	0.01	0.04
		VOC	0.09	0.32
X22	Tank Farm Mist Eliminator Stack (Asphalt Flux Storage Tanks 3 and 4 and Coating Storage Tanks 1-6)	VOC	0.01	0.07
X23	Wrapper Heater 1 Stack	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
		NO _x	0.05	0.17
		CO	0.04	0.15
		SO ₂	<0.01	<0.01
		VOC	<0.01	0.01
X24	Wrapper Heater 2 Stack	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
		NO _x	0.05	0.17
		CO	0.04	0.15
		SO ₂	<0.01	<0.01

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		VOC	<0.01	0.01
X25	Back Surfacing Silo Dust Collector Stack	PM	0.06	0.16
		PM ₁₀	0.06	0.16
		PM _{2.5}	0.02	0.06
X25A	Back Surfacing Bin Vent	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.01	0.03
SP1	Limestone Filler Stockpile 1 (5)	PM	0.11	0.49
		PM ₁₀	0.05	0.24
		PM _{2.5}	0.01	0.04
SP2	Limestone Filler Stockpile 2 (5)	PM	0.11	0.38
		PM ₁₀	0.05	0.19
		PM _{2.5}	0.01	0.03
BLDGFUG	Building Vent Fugitives (5) FINs: TF15, TF16, TF18 , TF20, TF21, TF26- 37, TF39-43, and TF48-54	PM	0.02	0.08
		PM ₁₀	0.01	0.03
		PM _{2.5}	<0.01	0.01
MTLHLD FUG	Material Handling Fugitives (5) FINs: TF1, TF2, CF1, TF4-TF14, CF2, CF3, TF22-TF25, TF38, and TF56	PM	<0.24	<0.36
		PM ₁₀	<0.22	<0.26
		PM _{2.5}	<0.22	<0.26
ALL	All Sources	Any HAP	-	<10.00
		All HAPs	-	<25.00

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

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- (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
- HCl - hydrogen chloride
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet conditions of 30 TAC 116.119.

Date: July 18, 2014