

Emission Sources - Maximum Allowable Emission Rates

Permit Number 5168

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)
DC1	Gelwhite Blunger Tank Dust Collector Stack	PM	0.02	0.05
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.01
GWDRY1	Gelwhite #1 Steam Dryer Stack	PM	1.39	3.99
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
GWDRY2	Gelwhite #2 Steam Dryer Stack	PM	1.39	3.99
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
GWDRY3	Gelwhite #3 Steam Dryer Stack	PM	1.39	3.99
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
DC2	Gelwhite Pulverizer Dust Collector Stack	PM	0.08	0.22
		PM ₁₀	0.06	0.16
		PM _{2.5}	0.01	0.03
DC3	Gelwhite Weigh Hopper & Marion Mixer Dust Collector Stack	PM	0.07	0.21
		PM ₁₀	0.06	0.15
		PM _{2.5}	0.01	0.02

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DC6	Gelwhite Pulverizer Mill Dust Collector Stack	PM	0.30	0.85
		PM ₁₀	0.22	0.63
		PM _{2.5}	0.04	0.10
DC4	Gelwhite Packaging w/ Heater Dust Collector Stack	VOC(b)	0.01	0.02
		NO _x	0.15	0.42
		SO ₂	0.01	0.01
		CO	0.12	0.35
		PM	0.07	0.20
		PM ₁₀	0.05	0.15
		PM _{2.5}	0.01	0.02
BLR2	#2 Cleaver Brooks Boiler Stack	VOC(b)	0.05	0.20
		NO _x	0.82	3.61
		SO ₂	0.01	0.02
		CO	0.69	3.03
		PM	0.06	0.27
		PM ₁₀	0.06	0.27
		PM _{2.5}	0.06	0.27

BLR3	#3 Cleaver Brooks Boiler Stack	VOC(b)	0.07	0.51
		NO _x	1.30	5.58

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		SO ₂	0.01	0.03
		CO	1.07	4.69
		PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
B15	Dry Process B15 Crude Silo Dust Collector Vent	PM	0.24	0.88
		PM ₁₀	0.17	0.65
		PM _{2.5}	0.03	0.11
B16	Dry Process B16 Crude Silo Dust Collector Vent	PM	0.24	0.88
		PM ₁₀	0.17	0.65
		PM _{2.5}	0.03	0.11
TK1	#1 Amine Tank	VOC(a)	2.31	1.04
TK2	#2 Amine Tank	VOC(a)	1.54	1.04
TK3	#3 Amine Tank	VOC(a)	2.31	1.04
TK4	#4 Amine Tank	VOC(a)	1.54	1.04
TK5	#5 Amine Tank	VOC(a)	3.24	1.04
TK6	#6 Amine Tank	VOC(a)	1.54	1.04

BLR10	Thermal Oxidizer #1 Stack	VOC(a)	0.17	0.60
		VOC(b)	0.04	0.17
		NO _x	0.33	1.28

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		SO ₂	0.01	0.02
		CO	2.66	10.49
		PM	0.06	0.24
		PM ₁₀	0.06	0.24
		PM _{2.5}	0.06	0.24
RBGR	#1 Dry Process Line Mill, Organo Rebagger, and Packaging Dust Collector Stack	PM	0.28	1.05
		PM ₁₀	0.21	0.78
		PM _{2.5}	0.03	0.13
BLR12	Thermal Oxidizer #3 Stack	VOC(a)	0.50	1.99
		VOC(b)	0.02	0.06
		NO _x	0.63	2.48
		SO ₂	0.01	0.01
		CO	3.04	11.99
		PM	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.02	0.10
DC5	#2 Dry Process Line Mill and Packaging Dust Collector Stack	PM	0.28	1.05
		PM ₁₀	0.21	0.78
		PM _{2.5}	0.03	0.13
BLR13	Thermal Oxidizer #4 Stack	VOC(a)	0.50	1.99
		VOC(b)	0.02	0.09
		NO _x	0.58	2.30
		SO ₂	0.01	0.01
		CO	2.81	11.09

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		PM	0.03	0.12
		PM ₁₀	0.03	0.12
		PM _{2.5}	0.03	0.12
DC7	#3 Dry Process Line Mill, Rebagger, and Packaging Dust Collector Stack	PM	0.28	1.05
		PM ₁₀	0.21	0.78
		PM _{2.5}	0.03	0.13
C11	C11 Crude Silo Dust Collector Vent	PM	0.24	1.03
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.03	0.12
C12	C12 Crude Silo Dust Collector Vent	PM	0.24	1.03
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.03	0.12
B12	B12 Crude Silo Dust Collector Vent	PM	0.24	1.03
		PM ₁₀	0.17	0.76
		PM _{2.5}	0.03	0.12
AMD	Soda Ash Unloading (5)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
RXNTK1	#1 Reaction Tank	VOC(a)	0.30	1.16
RXNTK2	#2 Reaction Tank	VOC(a)	0.28	1.18
PFT1	Flash and Fluid Process #1 Press Feed Tank	VOC(a)	0.27	1.03
ROOF3	Flash and Fluid Process #3 Press Roof Vent	VOC(a)	1.07	3.38
PFT3	Flash and Fluid Process #3 Press Feed Tank	VOC(a)	0.04	0.14

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ROOF2	Flash and Fluid Process #2 Press Roof Vent	VOC(a)	0.59	2.26
FLOAT1	Flash and Fluid Process #1 Float Cells (5)	VOC(a)	0.51	2.05
VFBBGH	Flash and Fluid Process Vibrating Fluidized Bed Dryer Dust Collector Stack	VOC(a)	3.39	14.87
		VOC(b)	0.04	0.16
		NO _x	0.78	2.92
		SO ₂	0.01	0.02
		CO	0.66	2.45
		PM	2.10	7.71
		PM ₁₀	1.53	5.71
		PM _{2.5}	0.25	0.93
3	Flash and Fluid Process ACM Mill Dust Collector Stack	PM	0.34	1.26
		PM ₁₀	0.25	0.94
		PM _{2.5}	0.04	0.15

SBAUN	Flash and Fluid Process Schlitterbaun Screen (5)	VOC (a)	0.03	0.12
PFT2	Flash and Fluid Process #2 Press Feed Tank	VOC(a)	0.31	1.33
ROOF1	Flash and Fluid Process #1 Press Roof Vent	VOC(a)	0.59	2.26
8	Flash and Fluid Process Flash Dryer Dust Collector Stack	VOC(a)	2.53	11.08
		VOC(b)	0.05	0.18
		NO _x	0.63	2.35

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		SO ₂	0.01	0.02
		CO	0.96	3.57
		PM	1.39	5.17
		PM ₁₀	1.03	3.83
		PM _{2.5}	0.17	0.62
7	Flash and Fluid Process Impact Mill Dust Collector Stack	PM	0.10	0.38
		PM ₁₀	0.08	0.28
		PM _{2.5}	0.01	0.05

BLR11	Thermal Oxidizer #2 Stack	VOC(a)	0.87	2.80
		VOC(b)	0.06	0.26
		NO _x	1.25	4.94
		SO ₂	0.01	0.03
		CO	5.41	21.32
		PM	0.09	0.35
		PM ₁₀	0.09	0.35
		PM _{2.5}	0.09	0.35
QT1	SPU Process Quat Tank 1	VOC(a)	0.20	0.45
QT2	SPU Process Quat Tank 2	VOC(a)	0.09	0.21

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QT3	Flash and Fluid Process Quat Tank 3	VOC(a)	0.21	0.37
QT4	Flash and Fluid Process Quat Tank 4	VOC(a)	0.20	0.28
TK15	Flash and Fluid Process #15 Tank	VOC(a)	0.21	0.80
TK16	Flash and Fluid Process #16 Tank	VOC(a)	0.19	0.81
SPUTK1	#1 SPU Tank	VOC(a)	0.36	0.14
SPUTK2	#2 SPU Tank	VOC(a)	0.46	0.79
SPUTK3	#3 SPU Tank	VOC(a)	0.46	0.79
SPUBB	SPU Unloading (5)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
SPUPRES	SPU Press (5)	VOC(a)	0.16	1.29

FBDRYER	SPU Fluidized Bed Dryer Dust Collector Stack	VOC(a)	2.88	4.51
		VOC(b)	0.01	0.03
		NO _x	0.16	0.62
		SO ₂	0.01	0.01
		CO	0.13	0.52
		PM	0.34	1.35
		PM ₁₀	0.25	1.00
		PM _{2.5}	0.04	0.10
DC8	SPU Mill Dust Collector Stack	PM	0.04	0.14
		PM ₁₀	0.03	0.10
		PM _{2.5}	0.01	0.02

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BAGGER	SPU Packaging Dust Collector Stack	PM	0.15	0.60
		PM ₁₀	0.11	0.44
		PM _{2.5}	0.02	0.07
WWTK1	#1 Wastewater Tank	VOC(a)	0.16	0.68
CLAR	Wastewater Clarifier Tank (5)	VOC(a)	0.25	1.10
WWTK2	Wastewater Fractionating Sludge Tank	VOC(a)	0.01	0.01
POND1	#1 Pond (5)	VOC(a)	0.31	1.37
POND2	#2 Pond (5)	VOC(a)	0.29	1.29
POND3	#3 Pond (5)	VOC(a)	0.36	1.59
POND6	#6 Pond (5)	VOC(a)	0.01	0.01
FUG	Equipment Leak Fugitives (5)	VOC(a)	0.56	2.45
BLSTPNT	Abrasive Blasting and Painting Fabric Filter Vent	PM	0.27	0.22
		PM ₁₀	0.27	0.22
		PM _{2.5}	0.27	0.22
		VOC	5.83	0.19
		Exempt Solvent	4.52	0.15
HEXMAIN	Heat Exchanger Maintenance	VOC (a)	2.53	0.22

- (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 Title 30 Texas Administrative Code § 101.1
 - VOC(a) -volatile organic compounds from ethanol or isopropanol
 - VOC(b) -volatile organic compounds from combustion
 - NO_x -total oxides of nitrogen
 - SO₂ -sulfur dioxide
 - CO -carbon monoxide
 - 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

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PM_{2.5} -particulate matter equal to or less than 2.5 microns in diameter

Exempt Solvent -Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

- (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 other than for the Heat Exchangers are not authorized by this permit.

Date: draft

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