

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 9654A, PSD-TX-684, and PSD-TX-833

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
1A	No. 1 Recovery Furnace	PM ₁₀	56.00	247.00
		VOC	50.00	217.00
		NO _x	90.00	394.00
		SO ₂	915.70	1372.00
		CO	1375.00	6023.00
		TRS	24.00	41.00
1B	No. 2 Recovery Furnace	VOC	50.00	217.00
		NO _x	90.00	394.00
		SO ₂	915.70	1372.00
		PM ₁₀	56.00	247.00
		CO	1375.00	6023.00
		TRS	24.00	41.00
2	Bark Boiler	VOC	20.63	88.57
		NO _x	104.00	456.00
		SO ₂	48.50	61.15
		PM ₁₀	33.00	145.00
		CO	600.0	2628.0
		TRS	2.31	2.08
2A	No. 1 PFI Boiler	VOC	10.00	44.00
		NO _x	49.83	218.26
		SO ₂	5.00	22.00
		PM ₁₀	3.00	13.00
		CO	70.00	307.00

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			<u>lb/hr</u>	<u>TPY</u>
2B	Package Boiler	VOC	0.67	2.93
		NO _x	28.50	124.90
		SO ₂	0.14	0.61
		PM ₁₀	1.20	5.25
		CO	8.32	36.40
3	No. 1 Dissolving Tank	VOC	17.93	50.12
		SO ₂	2.10	9.20
		PM ₁₀	6.90	30.00
		TRS	0.60	2.50
4	No. 2 Dissolving Tank	VOC	17.93	50.12
		SO ₂	2.10	9.20
		PM ₁₀	6.90	30.00
		TRS	0.60	2.50
9	Lime Silo	PM ₁₀	3.40	2.00
10	No. 1 Slaker	PM ₁₀	2.00	8.60
		VOC	0.48	1.33
11	Lime Kiln	VOC	4.78	21.03
		NO _x	42.00	182.00
		SO ₂	57.95	84.33
		PM ₁₀	30.00	131.00
		CO	337.00	1474.00
		TRS	6.41	11.21
12	Tall Oil Reactor	VOC	46.3	20.61
		TRS	1.75	0.78
13	No. 2 Slaker	PM ₁₀	2.00	8.60
		VOC	0.48	1.33
16	Brown Stock Washer A	VOC	16.29	4.00
		TRS	4.00	17.50
17	Brown Stock Washer B	VOC	12.29	34.37

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			<u>lb/hr</u>	<u>TPY</u>
		TRS	4.00	17.50
19	Lime Silo	PM ₁₀	0.01	0.01
32	Turpentine Storage Tank	VOC	<0.01	0.02
36	No. 5 White Liquor Tank Vent	TRS	<0.01	0.02
37	No. 6 Fuel Oil Tank	VOC	<0.01	0.02
38	No. 6 Fuel Oil Tank	VOC	<0.01	0.02
39	South Mud Tank	VOC	0.02	0.06
40	North Mud Tank	VOC	0.02	0.06
41	Weak Wash Storage Tank	VOC	0.09	0.24
42	Hot Water Storage Tank	VOC	0.00	0.00
43	New White Liquor Storage Tank	VOC	0.57	1.59
44	Scrubber Water Clarifier	VOC	0.09	0.24
45	No. 1 White Liquor Storage Tank	VOC	0.57	1.59
46	No. 2 White Liquor Storage Tank	VOC	0.57	1.59
47	No. 1 Green Liquor Clarifier	VOC	0.02	0.05

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			lb/hr	TPY
48	No. 1 Green Liquor Storage Tank	VOC TRS	0.96 0.01	4.02 0.03
49	No. 2 Green Liquor Storage Tank	VOC	0.02	0.05
50	Green Liquor Equalization Tank	VOC	0.03	0.09
51	No. 2 Green Liquor Clarifier	VOC	0.02	0.05
63	No. 1 Weak Black Liquor Storage Tank	VOC TRS	0.38 1.30	1.34 5.60
64	No. 2 Weak Black Liquor Storage Tank	VOC TRS	0.38 1.30	1.34 5.60
65	Weak Black Liquor Swing Tank	VOC TRS	0.11 1.30	0.40 5.60
66	No. 1 Heavy Black Liquor Storage Tank	VOC TRS	0.23 <0.01	0.79 0.02
67	No. 2 Heavy Black Liquor Storage Tank	VOC TRS	0.23 <0.01	0.79 0.02
68	Boilout Tank	VOC TRS	0.23 0.50	0.79 2.20
72	Gasoline Tank	VOC	-	0.20
73	No. 2 Fuel Oil Tank	VOC	-	0.20
74	Black Liquor Pond	TRS	-	3.20
80	Wood Yard (4)	PM ₁₀	-	3.80
81	Truck Traffic Fugitives	PM ₁₀	-	130.00

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99	No. 2 PFI Boiler	PM ₁₀	1.05	4.60
		VOC	0.59	2.58
		NO _x	21.0	91.98
		SO ₂	0.25	1.09
		CO	37.8	165.56
100	Chemi-Washer (4)	VOC	0.09	0.40
		TRS	<0.01	<0.01
101-130	No. 1 Paper Machine	VOC	26.70	117.00
132-158	No. 2 Paper Machine	VOC	32.30	141.60
159-166	Secondary Fiber System	VOC	0.34	1.18
168	Black Liquor Pond West	VOC	1.10	4.80
		TRS	-	3.20
192	Lime Kiln Precoat Filter	VOC	<0.01	0.17
193, 194	Precoat Filter Vacuum Pump	VOC	<0.01	0.01
200	Fish Ladder	VOC	9.20	32.22
205	No. 4 White Liquor Storage Tank	VOC	0.57	1.59
206	No. 1 Recovery Boiler Salt Cake Mix Tank	PM ₁₀	0.03	0.06
207	No. 2 Recovery Boiler Salt Cake Mix Tank	PM ₁₀	0.03	0.06

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210	Black Liquor Storage East	VOC	0.38	1.34
211	Black Liquor Storage West	VOC	0.38	1.34
212	Black Liquor Storage Center	VOC	0.38	1.34
213	Ecofilter Pressure System	VOC	0.17	6.48

- (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) PM₁₀ - particulate matter (PM) 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 Title 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
TRS - total reduced sulfur
- (4) Fugitive emissions are an estimate only.

All annual emissions are based on a rolling 12-month period and a maximum annual averaged throughput of 1,700 tons per day of air dry pulp.

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

24 Hrs/day, 7 Days/week, 52 Weeks/year

Dated _____