

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20365 and PSD-TX-785M4

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	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
11	No. 2 Bleach Plant ClO ₂ Scrubber Stack	ClO ₂	0.01	0.04
70, 75	No. 4 and No. 5 Bleach Plant 7.18 Scrubber Stacks	Cl ₂ ClO ₂ VOC	1.64 1.04 2.33	4.54 10.20
71	No. 4 Bleach Plant Diffusion Washer Stack	Cl ₂ ClO ₂	1.60 0.14	7.00 0.60
73, 74	No. 5 Bleach Plant Diffusion Washer Stacks	VOC	2.56	11.20
77, 78	No. IV and V Diffusion Washer Vents	VOC	64.10	281.10
72	Monox-L Mixer Scrubber Vent <0.01		Cl ₂	<0.01
19A	No. 1 Bulk Starch Unloading Vent	TSP PM ₁₀	0.01 0.01	0.04 0.04
19B	No. 2 Bulk Starch Unloading Vent	TSP PM ₁₀	0.01 0.01	0.04 0.04
19C	No. 3 Bulk Starch Unloading Vent	TSP PM ₁₀	0.01 0.01	0.04 0.04
5a	No. 2 Smelt Dissolve	TSP	4.70	20.70

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			lb/hr	TPY
	Tank Vent	PM ₁₀	4.70	20.70
		NO _x	1.20	5.10
	TRS		1.20	5.25
		VOC	2.20	9.60
		SO ₂	5.00	21.90
5b	No. 3 Smelt Dissolve	TSP	5.70	24.80
	Tank Vent	PM ₁₀	5.70	24.80
		NO _x	1.70	7.30
	TRS		1.70	7.40
		VOC	3.10	13.60
		SO ₂	6.70	29.20
2	No. 2 Recovery Boiler Stack	TSP		60.00
	262.80			
	PM ₁₀	60.00	262.80	
		VOC	8.00	35.00
		NO _x	62.78	275.00
		SO ₂	308.40	1350.60
		CO	251.37	1101.00
		H ₂ SO ₄	5.50	24.10
		TRS	10.90	47.80
		Fluorides	0.12	0.60
3	No. 3 Recovery Boiler	TSP	13.50	59.10
	North Stack	PM ₁₀	13.50	59.10
		VOC	7.00	30.00
		NO _x	43.00	188.30
		SO ₂	37.49	163.70
		CO	81.80	358.10
		H ₂ SO ₄	4.00	17.60
		TRS	2.00	8.70
		Fluorides	0.06	0.30
4	No. 3 Recovery Boiler	TSP	13.50	59.10
	North Stack	PM ₁₀	13.50	59.10

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	7.00	30.00
		NO _x	43.00	188.30
		SO ₂	37.49	163.70
		CO	81.80	358.10
		H ₂ SO ₄	4.00	17.60
		TRS	2.00	8.70
		Fluorides	0.06	0.30
26	No. 4 Recovery Boiler and 219.00		TSP	50.00
	Smelt Dissolve Tank Stack 219.00		PM ₁₀	50.00
		VOC	17.90	78.40
		NO _x	171.60	751.60
		SO ₂	119.40	522.90
		CO	261.10	1143.80
		H ₂ SO ₄	12.80	56.00
		TRS	6.30	27.80
		Fluorides	0.30	1.30
60	No. 1 NCG Incinerator Stack 9.40		TSP	2.10
		PM ₁₀ 2.10	9.40	
	NO _x	2.20	9.80	
		SO ₂	19.10	83.60
		CO	14.90	65.20
		VOC	0.10	0.50
		TRS	0.20	0.74
61	No. 2 NCG Incinerator Stack 9.40		TSP	2.10
	PM ₁₀	2.10	9.40	
		NO _x	0.98	4.30
		SO ₂ 5.48	24.00	

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO	6.50	28.50
		VOC	0.30	1.31
		TRS	0.09	0.40
1	No. 1 Power Boiler Stack	TSP	1.14	5.01
	PM ₁₀	1.14	5.01	
		NO _x	34.36	150.50
		SO ₂	0.14	0.60
		CO	56.85	249.00
		VOC	0.32	1.40
2	No. 2 Power Boiler Stack	TSP	55.00	240.90
	PM ₁₀	55.00	240.90	
		VOC	20.00	87.60
		NO _x	268.00	1173.80
		SO ₂	2.30	10.10
		CO	190.00	832.20
50	No. 6 Power Boiler Stack	TSP	72.00	315.36
	PM ₁₀	72.00	315.36	
		NO _x	190.40	834.00
		SO ₂	0.20	0.88
		CO	360.00	1576.80
		VOC	23.20	100.00
51	No. 5 Power Boiler Stack	TSP	1.63	7.14
	PM ₁₀	1.63	7.14	
		NO _x	16.94	74.20
		SO ₂	0.20	0.88
		CO	30.50	133.59
		VOC	3.07	13.45
13	No. 4 Slaker Stack (4)	TSP	1.37	6.00

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		PM ₁₀ 1.37	6.00	
14	No. 1 Slaker Stack (4)	TSP	1.37	6.00
		PM ₁₀ 1.37	6.00	
16-A	No. 7 Slaker Stack (4)	TSP	1.37	6.00
		PM ₁₀ 1.37	6.00	
43	No. 1 Lime Kiln Stack	TSP	10.00	43.80
		PM ₁₀ 10.00	43.80	
		VOC	0.07	0.30
		NO _x	15.87	69.50
		SO ₂	3.79	16.60
		CO	19.34	84.70
		TRS	0.53	2.30
9	No. 3 Lime Kiln Stack	TSP	7.23	31.10
		PM ₁₀ 7.23	31.10	
		VOC	0.07	0.31
		NO _x	20.64	90.40
		SO ₂	4.93	21.60
		CO	25.11	110.00
		TRS	0.71	3.10
7	No. 4 Lime Kiln Stack	TSP	6.92	30.29
		PM ₁₀ 6.92	30.29	
		VOC	8.01	35.10
		NO _x	29.77	130.40
		SO ₂	7.14	31.28
		CO	36.23	158.70
		TRS	0.95	4.16
48	Fresh Lime Handling (4)	TSP	0.07	0.30
	System, including:	PM ₁₀	0.07	0.30

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
48a	Fresh Lime Silo No. 1 Vent Filter			
48b	Fugitive Dust Pickup Filter			
48c	Fresh Lime Silo No. 4 Vent Filter			
90	No. 5 Paper Machine Vents		TSP	0.06
	0.27			
	PM ₁₀	0.06	0.27	
		NO _x	3.19	13.97
		SO ₂	0.01	0.03
		CO	0.49	2.16
		VOC	0.02	0.08
F100/101	Effluent Treatment System (4)	VOC	-	5.72

- (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) TSP - particulate matter including PM₁₀.
 PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 TRS - total reduced sulfur
 Cl₂ - chlorine
 ClO₂ - chlorine dioxide
 H₂SO₄ - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

as a maximum allowable emission rate.

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

The No. 4 fiberline is limited to 1,300 tons/day thruput (EPNs 70, 71, & 77)

The No. 5 fiberline is limited to 1,400 tons/day thruput (EPNs 73, 74, 75, & 78)

Total thruput is limited to 2,400 tons/day thruput.

(all rates are based on a maximum 12-month calendar year average of bleached air dry pulp)

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