AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rat	tes *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9804

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
. ,	. ,	. ,		
DCS-SP-1 to	Stockpile (4)	PM	0.15	0.66
DCS-SP-5	, , ,	PM_{10}	0.08	0.33
		Cr ⁺³	< 0.05	<0.20
		Cr_{tot}	<0.05	<0.20
DCS-CT-1 to	Cooling Tower	PM	<.001	0.0012
DCS-CT-7		PM ₁₀	<.001	0.0012
		Cr ⁺⁶	0.0003	0.0012
		Cr _{tot}	0.0003	0.0012
DCS-MH-1	Material Handling (4)	PM	0.02	0.034
		PM_{10}	< 0.007	0.012
		Cr ⁺³	<0.006	0.01
		Cr _{tot}	<0.006	0.01
15	Mixer Scrubber Stack	PM	1.68	5.90
10	Wilker Gerabber Glack	PM ₁₀	1.68	5.90
		Cr ⁺³	<0.10	0.33
		Cr ⁺⁶	< 0.006	<0.021
		Cr _{tot}	<0.10	<0.35

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission I	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
16	Raw Materials	PM	0.53	1.86
	Baghouse Stack	PM_{10}	0.53	1.86
		VOC	0.05	0.19
		NO_x	0.77	3.40
		SO ₂	<0.01	0.02
		CO	0.65	2.85
		Cr ⁺³	0.14	0.49
		Cr ⁺⁶	0.003	0.011
		Cr_tot	0.143	0.50
17	Electrolytic Stack	PM	1.91	6.26
		PM_{10}	1.91	6.26
		Cr ⁺³	0.006	0.021
		Cr ⁺⁶	0.025	0.082
		Cr_tot	0.031	0.103
		NaOH	0.84	2.75
18	Primary Kiln Stack	PM	4.94	18.15
	•	PM_{10}	4.94	18.15
		VOC	0.54	2.36
		NO_x	9.80	42.94
		SO_2	0.06	0.26
		CO	8.23	36.10
		Cr ⁺⁶	0.10	0.37
		Cr ⁺³	0.50	1.84
		Cr _{tot}	0.60	2.21
19	Kiln Ash Bin	PM	0.15	0.57
		PM ₁₀ 0.15	0.57	
34	Soda Ash Bin No. 1	PM	0.15	0.57
	Baghouse Stack	PM_{10}	0.15	0.57
35	Soda Ash Bin No. 2	PM	0.15	0.57
	Baghouse Stack	PM_{10}	0.15	0.57

AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	Emission F	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
				0.45	
36	Kiln Ash Feed Bin Baghouse Stack		PM PM ₁₀	0.15 0.15	0.57 0.57
38	Soda Ash Supply Bin Baghouse Stack		PM PM ₁₀	0.09 0.08	0.30 0.27
41	Secondary Kiln Stack		PM PM ₁₀ VOC NO _x SO ₂ CO Cr^{+3} Cr^{+6} Cr_{tot}	0.86 0.86 0.19 3.42 0.02 2.87 0.07 0.03 0.10	3.25 3.25 0.82 14.99 0.09 12.59 0.26 0.112 0.373
42	Leach Scrubber Stack		PM PM ₁₀ Cr ⁺³ Cr ⁺⁶ Cr _{tot}	1.40 1.40 0.48 0.12 0.60	4.91 4.91 1.67 0.41 2.08
D1 to Dx	Storage Tanks (4 and 5)	PM ₁₀	PM <0.007 Cr ⁺⁶ Cr _{tot} 0.005	<0.007 0.004 <0.007 <0.007 0.023	0.004 0.004 0.004
RESVNT	Residue Tanks (6) Caustic Scrubber Vent	Cr ⁺⁶ Cr _{tot}	PM PM ₁₀ <0.001 <0.001	<0.001 <0.001 <0.001 <0.001	<0.001 <0.001

	VOC H₂S	<0.002 0.02	<0.008 <0.10
(1)	Emission point identification - either specific equ from plot plan.	ipment designation or	emission point number
(2)	Specific point source name. For fugitive sources u	se area name or fugitiv	e source name.
(4)	PM - particulate matter, suspended in the atm PM ₁₀ - particulate matter (PM) equal to or less listed, it shall be assumed that no PM greater to VOC - volatile organic compound as defined in NO _x - total oxides of nitrogen SO ₂ - sulfur dioxide CO - carbon monoxide Cr ⁺³ - trivalent chromium Cr ⁺⁶ - hexavalent chromium Cr _{tot} - total chromium (Cr ⁺³ + Cr ⁺⁶) NaOH - sodium hydroxide H ₂ S - hydrogen sulfide Fugitive emissions are an estimate only EPN D1-Dx consists of Storage Tanks D1 - D8,	than 10 microns in dian han 10 microns is emitt Title 30 Texas Adminis D13, D15 - D21, D23 -	neter. Where PM is not red. strative Code § 101.1
(6)	D46, D47, D55 - D61, D64, D67, D69, D71 - D73 and 2 and total emissions from the listed tanks shall reatment Tanks 1 through 4 and East and Westotal emissions from the listed tanks shall not ex	nall not exceed the refle ue Head Tank, Residue t Vertical Sulfide tanks,	cted values. Surge Tank, Residue D28a and D28b, and
*	Emission rates are based on and the facilities are I schedule:	mited by the following r	naximum operating
	Hrs/day Days/week Weeks/year	or Hrs/year <u>8,760</u>	
	Emission limits are based on the total i	maximum raw material a	and product throughout

Permit	Number	9804
Page 5)	

represented on Table 2 Appendix B of the confidential attachment of the Permit Application dated December 18, 2002.

D	ated	
-	uicu	