

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3505

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
1	Grinding Plant Baghouse Stack	PM <sub>10</sub>	3.23	14.15
2	Rotary Kiln Scrubber Stack	PM <sub>10</sub>	8.16	23.80
		SO <sub>2</sub>	20.00	58.00
		NO <sub>x</sub>	3.49	10.20
		VOC	0.10	0.30
		CO	5.70	16.30
		HCl	<0.01	
		HF	0.04	0.13
3	EHP Manufacturing Dust Collector No. 1	PM <sub>10</sub>	3.30	14.45
		NO <sub>x</sub>	1.49	2.96
		SO <sub>2</sub>	2.85	5.70
		VOC	0.13	0.26
		CO	1.32	2.64
		HCl	<0.01	
		HF	<0.01	
4	Lingl Dryer Waste Heat Dump Stack	PM <sub>10</sub>	17.40	0.44
		NO <sub>x</sub>	7.00	0.18
		SO <sub>2</sub>	13.40	0.34
		VOC	0.60	0.02
		CO	6.20	0.16
		HCl	7.92	0.20
		HF	0.24	0.01
5	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
6	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
7	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
8	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
9	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
10	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		NO <sub>x</sub> 0.15	0.65	
		SO <sub>2</sub> 1.02	4.48	
		VOC 0.05	0.20	
		CO 0.47	2.07	
		HCl 0.01	0.05	
		HF 0.11	0.48	
11	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub> 0.15	0.65	
		SO <sub>2</sub> 1.02	4.48	
		VOC 0.05	0.20	
		CO 0.47	2.07	
		HCl 0.01	0.05	
		HF 0.11	0.48	
12	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub> 0.15	0.65	
		SO <sub>2</sub> 1.02	4.48	
		VOC 0.05	0.20	
		CO 0.47	2.07	
		HCl 0.01	0.05	
		HF 0.11	0.48	
13	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub> 0.15	0.65	
		SO <sub>2</sub> 1.02	4.48	
		VOC 0.05	0.20	
		CO 0.47	2.07	
		HCl 0.01	0.05	
		HF 0.11	0.48	
14	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub> 0.15	0.65	
		SO <sub>2</sub> 1.02	4.48	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
15	Lingl Dryer Stack	PM <sub>10</sub>	0.29	1.25
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
16	EHP Plant Kiln Stack	PM <sub>10</sub>	1.98	8.69
		SO <sub>2</sub>	10.72	47.13
		NO <sub>x</sub>	3.56	15.59
		CO	26.93	117.95
		VOC	9.45	41.39
		HF	0.94	4.13
		HCl	4.29	18.83
17	Mold Plant Pre-Heat Burner	PM <sub>10</sub>	0.10	0.43
		NO <sub>x</sub>	0.03	0.15
		SO <sub>2</sub>	<0.01	<0.01
		VOC	<0.01	0.01
		CO	0.05	0.20
18	Rotary Kiln Cyclone Bypass	PM <sub>10</sub>	<0.01	<0.01
		NO <sub>x</sub>	1.99	0.02
		SO <sub>2</sub>	1.96	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC	<0.01	
		CO	0.70	
		HCl	<0.01	
		HF	<0.01	
19	Swindell Holding Room Stack No. 1	PM <sub>10</sub>	0.53	2.34
		NO <sub>x</sub>	0.28	1.23
		SO <sub>2</sub>	1.91	8.36
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
20	Swindell Holding Room Stack No. 2	PM <sub>10</sub>	0.53	2.34
		NO <sub>x</sub>	0.28	1.23
		SO <sub>2</sub>	1.91	8.36
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
21	Swindell Holding Room Stack No. 3	PM <sub>10</sub>	0.53	2.34
		NO <sub>x</sub>	0.28	1.23
		SO <sub>2</sub>	1.91	8.36
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
22	Swindell Holding Room Stack No. 4	PM <sub>10</sub>	0.53	2.34
		NO <sub>x</sub>	0.28	1.23

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		SO <sub>2</sub> 1.91	8.36	
		VOC 0.09	0.38	
		CO 0.88	3.88	
		HCl <0.01	<0.01	
		HF <0.01	<0.02	
23	Shapes Dryer Stack	PM <sub>10</sub>	0.02	0.09
		NO <sub>x</sub> 0.01	0.05	
		SO <sub>2</sub> 0.08	0.34	
		VOC <0.01	<0.01	
		CO 0.04	0.16	
		HCl 0.01	0.04	
		HF 0.11	0.48	
24	Smog Hog	PM <sub>10</sub>	0.13	1.00
		VOC 0.01	0.01	
25	Surge Bin Dust Collector	PM <sub>10</sub>	2.40	11.00
26	Extrusion Plant Transfer Point	PM	0.03	0.01
		PM <sub>10</sub> 0.01	0.01	
27	Sand Hopper	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	
28	Sand Screen No. 1	PM	0.13	0.07
		PM <sub>10</sub> 0.01	0.01	
29	Sand Screen No. 2	PM	0.13	0.07
		PM <sub>10</sub> 0.01	0.01	
30	Calcine Drop Point	PM	0.18	0.70

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
		PM <sub>10</sub> 0.01	0.03	
31	Conveyor Pile Drop Point No. 1	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	
32	Conveyor Pile Drop Point No. 2	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	
33	Screening Transfer Point No. 1	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	
34	Screening Transfer Point No. 2	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	
35	Grandslam Transfer Point No. 1	PM	0.05	0.02
		PM <sub>10</sub> 0.02	0.01	
36	Grandslam Transfer Point No. 2	PM	0.05	0.02
		PM <sub>10</sub> 0.02	0.01	
37	Diesel Tank - 10,000-Gallon	VOC	<0.01	<0.01
38	Gasoline Tank - 1,000-Gallon	VOC	<0.01	<0.01
39	Swindell Kiln Exhaust Stack	PM <sub>10</sub>	9.93	43.5
		NO <sub>x</sub> 4.00	17.50	
		SO <sub>2</sub> 7.65	33.50	
		VOC 0.27	1.20	
		CO 3.54	15.50	
		HCl 1.94	8.50	
		HF 4.22	18.50	
40	Extrusion Plant Transfer Point	PM	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		PM <sub>10</sub> 0.01	<0.01	
41	Soft Mud Plant Transfer Point No. 1	PM	0.02	0.01
		PM <sub>10</sub>	0.01	<0.01
42	Soft Mud Plant Transfer Point No. 2	PM	0.02	0.01
		PM <sub>10</sub>	0.01	<0.01
43	Diesel Tank - 500-Gallon	VOC	<0.01	<0.01
FUG1	Rotary Kiln Building (4)	PM	0.01	0.01
		PM <sub>10</sub> 0.01	0.01	
FUG2	Grandslam Crusher Bldg. (4)	PM	0.06	0.02
		PM <sub>10</sub> 0.02	0.01	
FUG3	Calcine Clay Storage Bldg. (4)	PM	0.02	0.01
		PM <sub>10</sub> 0.01	0.01	
FUG4	Raw Material Clay Storage (4)	PM	0.08	0.04
		PM <sub>10</sub> 0.02	0.02	
FUG5	Shapes Operation Bldg. (4)	PM	0.10	0.03
		PM <sub>10</sub> 0.04	0.01	
FUG6	Mfg. Bldg. (4)	PM	1.05	0.50
		PM <sub>10</sub> 0.88	0.40	
FUG7	Swindell Coatings Storage Bldg. (4)	PM	0.16	0.10
		PM <sub>10</sub> 0.13	0.10	
FUG8	Harrop Bldg. (4)	PM	<0.01	<0.01
		PM <sub>10</sub> <0.01	<0.01	



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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
FUG9	Mold Plant Bldg. (4)	PM	0.10	0.04
		PM <sub>10</sub> 0.04	0.02	
FUG10	Grinding Plant Bldg. (4)	PM	1.42	0.45
		PM <sub>10</sub> 0.14	0.04	
FUG11	Stockpile (4)	PM	--	7.23
		PM <sub>10</sub> --	3.61	
FUG12	Offroad Vehicle (4)	PM	--	16.00
		PM <sub>10</sub> --	6.00	
FUG13	Raw Clay Hopper (4)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01

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

(2) Specific point source names. For fugitive sources use area name or fugitive source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

SO<sub>2</sub> - sulfur dioxide

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

HC1 - hydrogen chloride

HF - hydrogen fluoride

(4) Fugitive emissions are an estimate only.

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			<u>lb/hr</u>	<u>TPY</u>

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			lb/hr	TPY**

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- \* 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 or 5,840 Hrs/year for the rotary kiln and 5,000 Hrs/year for the grinding and screening or 8,760 Hrs/yr for the brick dryer and tunnel kiln.  
**(05/02)**

Maximum Allowable Production Rates:

40,000 tpy

Rotary Kiln

Grinding 150 tph and 546,000 tpy  
EHP Brick Plant 144,900 tpy **(12/05)**

Dated December 21, 2005