

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 56111

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 |
| 19 | Swindell Holding Room Stack #1 | PM ₁₀ | 2.13 | 9.35 |
| | | NO _x | 1.12 | 4.9 |
| | | SO ₂ | 7.65 | 33.5 |
| | | VOC | 0.34 | 1.5 |
| | | CO | 3.54 | 15.5 |
| | | HCL | 0.01 | <0.01 |
| | | HF | 0.01 | 0.02 |
| 23 | Shapes Dryer Stack | PM ₁₀ | 0.02 | 0.09 |
| | | NO _x | 0.01 | 0.05 |
| | | SO ₂ | 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 | Brick Machine Smog Hog Stack | PM ₁₀ | 1.00 | 0.13 |
| | | VOC | 0.01 | 0.01 |
| 25 | Surge Bin Dust Collector Stack | PM ₁₀ | 11.00 | 2.40 |
| 27 | Sand Hopper | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| 35 | Grandslam (precrusher) Transfer Point #1 | PM | 0.05 | 0.02 |
| | | PM ₁₀ | 0.02 | 0.01 |
| 36 | Grandslam (precrusher) Transfer Point #2 | PM | 0.05 | 0.02 |
| | | PM ₁₀ | 0.02 | 0.01 |

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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> |
| 37 | Diesel Tank - 10,000 gal. | | VOC | <0.01 |
| | | <0.01 | | |
| 38 | Gasoline Tank - 1,000 gal. | | VOC | <0.01 |
| | | <0.01 | | |

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|---------------|-------------------------------|-----------------------|-----------------------|------------|
| Point No. (1) | Name (2) | Name (3) | <u>lb/hr</u> | <u>TPY</u> |
| 39 | Swindell Kiln Exhaust Stack | | PM ₁₀ | 8.70 |
| | | 38.11 | | |
| | | NO _x 3.50 | 15.33 | |
| | | SO ₂ 6.70 | 29.35 | |
| | | VOC 0.24 | 1.05 | |
| | | CO 12.00 | 52.56 | |
| | | HCL 1.70 | 7.45 | |
| | | HF 3.70 | 16.21 | |
| 43 | Diesel Tank - 500 gal. | VOC | <0.01 | <0.01 |
| 55 | Swindell Kiln Idle Cool Stack | | PM ₁₀ | 0.00 |
| | | 0.00 | | |
| | | NO _x 0.00 | 0.00 | |
| | | SO ₂ 0.00 | 0.00 | |
| | | VOC 0.00 | 0.00 | |
| | | CO 0.00 | 0.00 | |
| | | HCL 0.00 | 0.00 | |
| | | HF 0.00 | 0.00 | |
| FUG1 | Grandslam Crusher Building(4) | | PM | 0.06 |
| | | 0.02 | | |
| | | PM ₁₀ 0.02 | 0.01 | |

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|---------------|------------------------------------|------------------------|------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| FUG2 | Calcine Clay Storage Building(4) | | PM | 0.08 |
| | | 0.04 | | |
| | | PM ₁₀ 0.02 | 0.02 | |
| FUG3 | Shapes Operation Building (4) | | PM | 0.10 |
| | | 0.03 | | |
| | | PM ₁₀ 0.04 | 0.01 | |
| FUG4 | Manufacturing Building (4) | | PM | 1.05 |
| | | 0.50 | | |
| | | PM ₁₀ 0.88 | 0.40 | |
| FUG5 | Harrop Building (4) | PM | <0.01 | <0.01 |
| | | PM ₁₀ <0.01 | <0.01 | |
| FUG6 | Raw Clay Hopper (4) | PM | 0.01 | 0.01 |
| | | PM ₁₀ 0.01 | 0.01 | |
| FUG7 | Swindell Coatings Storage Bldg.(4) | | PM ₁₀ | 0.13 |
| | | 0.10 | | |
| | | NO _x 0.01 | 0.01 | |
| | | SO ₂ 0.01 | 0.01 | |
| | | VOC 0.01 | 0.01 | |
| | | CO 0.01 | 0.01 | |
| 49 | Shapes Reburn Dryer | PM ₁₀ | 0.19 | 0.19 |
| | | NO _x 0.10 | 0.10 | |
| | | SO ₂ 0.67 | 0.67 | |
| | | VOC 0.03 | 0.03 | |
| | | CO 0.31 | 0.31 | |

(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.

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- (3) NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter 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.
CO - carbon monoxide
(4) Fugitive emissions are an estimate only.

* 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 _____
Hrs/year

Maximum Allowable Shredder Throughput: 100 tons/hour and _____
300,000 tons/year

Maximum Allowable Dryer/Cooler Throughput: 60 tons/hour and _____
124,200 tons/year

Maximum Allowable Milling Throughput: 100 tons/hour and _____
175,800 tons/year

Dated _____