

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 8068 and PSDTX437

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, sources, and related activities. 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 | |
|---------------------------|---------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 79-1 | Lime Kiln Scrubber Stack* | VOC | 7.50 | 32.00 |
| | | NO _x | 22.70 | 96.70 |
| | | SO ₂ | 5.40 | 23.00 |
| | | PM | 22.70 | 96.70 |
| | | PM ₁₀ | 22.70 | 96.70 |
| | | CO | 22.90 | 97.60 |
| | | TRS | 0.90 | 3.80 |
| 79-2 | Slaker Stack* | VOC | 0.30 | 1.30 |
| | | PM | 0.50 | 2.20 |
| | | PM ₁₀ | 0.50 | 2.20 |
| | | TRS | 0.10 | 0.30 |
| 79-3 | Lime Blower Stack* | PM | 0.40 | 1.70 |
| | | PM ₁₀ | 0.40 | 1.70 |
| 79-4 | Mud Filter Pump* | VOC | 0.26 | 1.10 |
| | | PM | 0.50 | 2.20 |
| | | PM ₁₀ | 0.50 | 2.20 |
| 79-5 | Mud Filter Hood* | VOC | 0.23 | 1.00 |
| | | PM | 0.50 | 2.20 |
| | | PM ₁₀ | 0.50 | 2.20 |
| 79-6 | Causticizer Tanks* | VOC | 0.07 | 0.30 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------|---|--------------------------------|--------|--------|
| | | PM | 0.50 | 2.20 |
| | | PM ₁₀ | 0.50 | 2.20 |
| 81-1 | Recovery Boiler Stack** | VOC | 20.27 | 88.80 |
| | | NO _x | 55.00 | 237.60 |
| | | SO ₂ | 206.00 | 890.00 |
| | | PM | 50.50 | 218.10 |
| | | PM ₁₀ | 50.50 | 218.10 |
| | | CO | 112.50 | 486.00 |
| | | TRS | 2.70 | 11.80 |
| | | H ₂ SO ₄ | 4.60 | 20.00 |
| 81-2 | Smelt Tank Stack** | VOC | 10.42 | 45.00 |
| | | SO ₂ | 2.50 | 10.80 |
| | | PM | 8.30 | 36.00 |
| | | PM ₁₀ | 8.30 | 36.00 |
| | | TRS | 1.40 | 6.00 |
| 89-1 | Blowheat Recovery System# (Accumulator Vent Stack) | VOC | 0.00 | 0.00 |
| | | SO ₂ | 0.00 | 0.00 |
| | | CO | 0.00 | 0.00 |
| | | TRS | 0.00 | 0.00 |
| | | H ₂ S | 0.00 | 0.00 |
| 89-2 | Brown Stock Washers**(5) | VOC | 12.70 | 55.00 |
| | | TRS | 9.82 | 43.00 |
| G-1 | Power Boiler 11 Stack | VOC | 54.10 | 237.00 |
| | | NO _x | 82.00 | 355.00 |
| | | SO ₂ | 5.40 | 23.70 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------|--|--------------------------------|--------|---------|
| | | PM | 63.90 | 280.00 |
| | | PM ₁₀ | 63.90 | 280.00 |
| | | CO | 188.60 | 826.00 |
| | | H ₂ SO ₄ | 0.23 | 1.00 |
| G-5 | Groundwood Mill (5) | VOC | 249.32 | 1091.90 |
| G-6 | Turbine Stack | VOC | 0.59 | 2.60 |
| | | NO _x | 118.70 | 520.00 |
| | | SO ₂ | 0.14 | 0.60 |
| | | PM | 1.07 | 4.70 |
| | | PM ₁₀ | 1.07 | 4.70 |
| | | CO | 8.63 | 37.80 |
| PM-2 | No. 2 Paper Machine | VOC | 15.45 | 67.70 |
| PM-8 | No. 8 Paper Machine | VOC | 37.21 | 163.00 |
| BPLT | Bleach Plant | VOC | 7.13 | 31.30 |
| | | Cl ₂ | 2.76 | 12.10 |
| GLCS | Green Liquor Clarification and Storage | VOC | 1.46 | 6.40 |
| LMCS | Lime Mud Clarification and Storage | VOC | 0.66 | 2.90 |
| | | TRS | 0.02 | <0.10 |
| WLCS | White Liquor Clarification and Storage | VOC | 0.22 | 1.00 |

| | | | | |
|------|---------------------------|-----|------|------|
| SRS | Soap Recovery and Storage | VOC | 0.08 | 0.40 |
| | | TRS | 0.05 | 0.30 |
| WBLS | Weak Black Liquor Storage | VOC | 0.10 | 0.50 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|-------|----------------------------|------------------|------|-------|
| | | TRS | 0.06 | 0.30 |
| HBLS | Heavy Black Liquor Storage | VOC | 0.18 | 0.80 |
| | | TRS | 0.18 | 0.80 |
| BRKPS | Brown Kraft Pulp Storage | VOC | 0.86 | 3.80 |
| | | TRS | 0.18 | 0.80 |
| BLKPS | Bleach Kraft Pulp Storage | VOC | 0.86 | 3.80 |
| | | TRS | 0.18 | 0.80 |
| WDYD | Woodyard (5) | PM | 8.75 | 38.40 |
| | | PM ₁₀ | 8.75 | 38.40 |

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- TRS - total reduced sulfur
- H₂SO₄ - sulfuric acid
- H₂S - hydrogen sulfide
- Cl₂ - chlorine
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

* Emission rates are based on 8,520 hours/year of operation.

** Emission rates are based on 8,640 hours/year of operation.

Refer to start-up, shutdown, and malfunction plan.

Emission Sources - Maximum Allowable Emission Rates

Date: _____