

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 73193

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** |
| SCRUB13 | Scrubber No. 13A | VOC | 9.36 | 0.39 |
| | | HCl | 0.02 | 0.01 |
| | | Phosphonate-U | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₃ PO ₃ | 0.01 | 0.01 |
| SCRUB11 | Scrubber Nos. 10 and 11 | VOC | 9.36 | *** |
| | | HCl | 0.02 | |
| | | Phosphonate-U | 0.01 | |
| | | H ₃ PO ₄ | 0.01 | |
| | | H ₃ PO ₃ | 0.01 | |
| SCRUB14 | Scrubber No. 14A and B | VOC | 0.93 | 0.52 |
| | | HCl | 0.07 | 0.02 |
| | | Phosphonate-U | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.02 | 0.01 |
| | | H ₃ PO ₃ | 0.05 | 0.02 |
| | | KOH | 0.01 | 0.01 |
| | | NaOH | 0.01 | 0.01 |
| SCRUB12 | Scrubber No. 12 | VOC | 0.06 | 0.01 |
| SCRUB8 | Scrubber No. 8 | VOC | 0.18 | 0.01 |
| | | HCl | 0.02 | 0.01 |
| | | Phosphonate-U | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₃ PO ₃ | 0.01 | 0.01 |
| | | KOH | 0.01 | 0.01 |
| | | NaOH | 0.01 | 0.01 |

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| | | | lb/hr | TPY** |
| SCRUB16 | Scrubber No. 16 | VOC | 0.04 | 0.04 |
| | | HCl | 0.01 | 0.01 |
| | | Phosphonate-U | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₃ PO ₃ | 0.01 | 0.01 |
| | | KOH | 0.01 | 0.01 |
| | | NaOH | 0.01 | 0.01 |
| SCRUB2 | Scrubber No. 2 | VOC | 0.09 | 0.01 |
| SCRUB3 | Scrubber No. 3 | VOC | 0.12 | 0.04 |
| SCRUB4 | Scrubber No. 4 | VOC | 0.04 | 0.04 |
| SCRUB5 | Scrubber No. 5 | VOC | 0.01 | 0.01 |
| SCRUB6 | Scrubber No. 6 | VOC | 0.39 | 0.04 |
| SCRUB7 | Scrubber No. 7 | VOC | 0.01 | 0.01 |
| SCRUB15 | Scrubber No. 15 | VOC | 0.21 | 0.04 |
| TK-1 | Tank 1 | VOC | 1.45 | 0.03 |
| TK-2 | Tank 2 | VOC | 0.45 | 0.01 |
| TK-3 | Tank 3 | VOC | 0.01 | 0.01 |
| TK-5 | Tank 5 | VOC | 1.36 | 0.01 |
| TK-6 | Tank 6 | VOC | 0.01 | 0.04 |
| TK-7 | Tank 7 | VOC | 0.01 | 0.02 |
| TK-8 | Tank 8 | VOC | 0.01 | 0.01 |
| TK-10 | Tank 10 | VOC | 0.02 | 0.01 |

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| | | | lb/hr | TPY** |
| TK-11 | Tank 11 | VOC | 0.85 | 0.02 |
| TK-19 | Tank 19 | VOC | 0.01 | 0.01 |
| TK-20 | Tank 20 | VOC | 0.01 | 0.12 |
| TK-22 | Tank 22 | VOC | 0.01 | 0.01 |
| TK-24 | Tank 24 | VOC | 0.01 | 0.12 |
| TK-25 | Tank 25 | VOC | 7.96 | 0.08 |
| TK-27 | Tank 27 | VOC | 2.91 | 0.02 |
| TK-28 | Tank 28 | VOC | 1.36 | 0.01 |
| TK-29 | Tank 29 | VOC | 3.22 | 0.08 |
| TK-30 | Tank 30 | VOC | 20.50 | 0.11 |
| TK-31 | Tank 31 | VOC | 0.72 | 0.01 |
| TK-32 | Tank 32 | VOC | 1.36 | 0.01 |
| TK-33 | Tank 33 | VOC | 2.32 | 0.06 |
| TK-34 | Tank 34 | VOC | 1.36 | 0.02 |
| TK-35 | Tank 35 | VOC | 3.22 | 0.09 |
| TK-41 | Tank 41 | VOC | 1.36 | 0.01 |
| TK-47 | Tank 47 | VOC | 10.40 | 0.49 |
| TK-48 | Tank 48 | VOC | 10.40 | 0.49 |
| TK-52 | Tank 52 | VOC | 11.09 | 0.18 |

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|---------------------------|-----------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| TK-54 | Tank 54 | VOC | 0.01 | 0.05 |
| TK-55 | Tank 55 | VOC | 0.01 | 0.09 |
| TK-56 | Tank 56 | VOC | 0.01 | 0.22 |
| TK-58 | Tank 58 | VOC | 0.01 | 0.09 |
| TK-64 | Tank 64 | VOC | 0.75 | 0.01 |
| TK-65 | Tank 65 | VOC | 0.01 | 0.01 |
| TK-66 | Tank 66 | VOC | 0.01 | 0.03 |
| TK-69 | Tank 69 | VOC | 0.02 | 0.11 |
| TK-70 | Tank 70 | VOC | 0.01 | 0.01 |
| TK-72 | Tank 72 | VOC | 0.02 | 0.61 |
| TK-81 | Tank 81 | VOC | 0.09 | 0.01 |
| DRUMHEAT | Heated Drums | VOC | 0.02 | 0.05 |
| | | Polyphosphoric Acid | 0.01 | 0.01 |
| TRUCKWASH | Tank Trailer Cleaning | VOC | 6.53 | 0.98 |
| CT-NORTH | North Cooling Tower | VOC | 0.54 | 2.37 |
| CT-SOUTH | South Cooling Tower | VOC | 0.32 | 1.42 |
| OILHEAT | Hot Oil Heater | NO _x | 0.27 | 1.19 |
| | | CO | 0.23 | 1.00 |
| | | VOC | 0.01 | 0.07 |
| | | PM/PM ₁₀ | 0.02 | 0.09 |
| | | SO ₂ | 0.04 | 0.17 |

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|---------------------------|---|--------------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| TRUCKLOAD | Truck Loading Fugitives (4) | VOC | 0.07 | 0.06 |
| | | HCl | 0.01 | 0.01 |
| | | Phosphonate-U | 0.01 | 0.01 |
| | | H ₃ PO ₄ | 0.01 | 0.01 |
| | | H ₃ PO ₃ | 0.01 | 0.01 |
| | | KOH | 0.01 | 0.01 |
| | | NaOH | 0.01 | 0.01 |
| WWDLFUG | Drum Loading from Wastewater Tanks (4) | VOC | 1.26 | 0.01 |
| PLANTFUG | Plant Fugitives (4) | VOC | 0.53 | 2.28 |
| RBLENDFUG | Reactor and Blender Fugitives (4) | VOC | 1.67 | 7.14 |
| | | NH ₃ | 0.06 | 0.27 |
| | | Cl ₂ | 0.01 | 0.01 |
| TB1FUG | Tank Battery 1 Fugitives (4) | VOC | 0.25 | 1.11 |
| TB2FUG | Tank Battery 2 Fugitives (4) | VOC | 0.57 | 2.48 |
| TB3FUG | Tank Battery 3 Fugitives (4) | VOC | 0.44 | 1.82 |
| TB4FUG | Tank Battery 4 Fugitives (4) | VOC | 0.74 | 3.14 |
| | | NH ₃ | 0.02 | 0.11 |
| TB5FUG | Tank Battery 5 Fugitives (4) | VOC | 0.06 | 0.25 |
| TB6FUG | Tank Battery 6 Fugitives (4) | VOC | 0.01 | 0.06 |
| TB8FUG | Tank Battery 8 Fugitives (4) | VOC | 0.34 | 1.28 |
| FUGMSS | Line Break | VOC | 2.65 | 0.28 |
| | Tank Maintenance | VOC | 6.92 | 1.87 |
| | SO ₂ Tank Maintenance | VOC | 0.01 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |

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|---------------------------|----------------------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| | NH ₃ Tank Maintenance | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| | Hot Oil Heater Drum Filling | VOC | 0.01 | 0.01 |
| | Vacuum Truck Loading | VOC | 0.06 | 0.01 |
| | Aerosol Degreasing/Lubricants | VOC | 6.90 | 0.35 |

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
 PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - particulate matter (PM) 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.
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 HCl - hydrogen chloride
 NaOH - sodium hydroxide
 KOH - potassium hydroxide
 H₃PO₄ - phosphoric acid
 H₃PO₃ - phosphorous acid
 NH₃ - ammonia
 Cl₂ - chlorine

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(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* 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 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

*** Annual emissions for EPN SCRUB 11 are included in the annual emissions for EPN SCRUB 13.

Dated August 20, 2010