

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6382

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 ** |
| A38S31 | S-31 Absorber | VOC | 0.28 | 1.23 |
| A38S123 | S-123 Absorber | VOC | 0.01 | 0.014 |
| A38S61 | S-61 Absorber | VOC | 0.10 | 0.43 |
| A38S501 | S-501 Absorber | VOC | 0.03 | 0.13 |
| A38S100 | S-100 Absorber | VOC | 0.14 | 0.11 |
| A38S540 | S-540 Absorber | VOC | 1.09 | 0.03 |
| A38S503 | S-503 Absorber | VOC | 0.47 | 0.80 |
| A38S545 | S-545 Absorber | VOC | 2.18 | 0.07 |
| A28S420 | S-420 Absorber | VOC | 0.07 | 0.29 |
| A38S296 | S-296 Absorber | VOC | 0.22 | 0.97 |
| A38S396 | S-396 Absorber | VOC | 1.22 | 0.70 |
| A38COOLTWR | Cooling Tower | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.12 | 0.27 |

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| A38FUGITIV | Fugitives Emissions (4) Main Ethyleneamines Plant | NH ₃ | 0.31 | 1.36 |
| | | VCM | 0.02 | 0.05 |
| | | EDC | 0.16 | 0.67 |
| | | VOC (5) | 3.47 | 15.18 |
| A38D104 | Storage Tank D-104 | VOC | 2.46 | 0.28 |
| A38SU1056 | Sump SU-1056 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.41 | 0.45 |
| A38SU1057 | Sump SU- 1057 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.33 | 0.36 |
| A38SU1059 | Sump SU-1059 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.41 | 0.44 |
| A38SU1060 | Sump SU-1060 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.37 | 0.41 |
| A38D101 | Storage Tank D-101 | VOC | 0.01 | 0.01 |
| A38D102 | Storage Tank D-102 | VOC | 0.23 | 0.02 |
| A38D107 | Storage Tank D-107 | VOC | 0.02 | 0.02 |
| A38D108 | Storage Tank D-108 | VOC | 0.31 | 0.42 |
| A38D109 | Storage Tank D-109 | VOC | 0.01 | 0.01 |
| A38D111 | Storage Tank D-111 | VOC | 0.02 | 0.02 |
| A38D112 | Storage Tank D-112 | VOC | 1.03 | 0.06 |
| A38D113 | Storage Tank D-113 | VOC | 1.03 | 0.02 |

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| A38D116 | Storage Tank D-116 | VOC | 0.08 | 0.01 |
| A38D155 | Storage Tank D-155 | VOC | 0.01 | 0.01 |
| A38D156 | Storage Tank D-156 | VOC | 0.11 | 0.12 |
| A38D157 | Storage Tank D-157 | VOC | 0.14 | 0.15 |
| A38D31B | Storage Tank D-31B | VOC | 0.05 | 0.01 |
| A38D32 | Storage Tank D-32 | VOC | 0.01 | 0.01 |
| A38D42 | Storage Tank D- 42 | VOC | 0.01 | 0.01 |
| A38D103 | Storage Tank D-103 | VOC | 0.01 | 0.01 |
| A38D105 | Storage Tank D-105 | VOC | 0.01 | 0.01 |
| A38D106 | Storage Tank D-106 | VOC | 0.01 | 0.01 |
| A38D114 | Storage Tank D-114 | VOC | 0.01 | 0.01 |
| A38D115 | Storage Tank D-115 | VOC | 0.01 | 0.01 |
| A38D117 | Storage Tank D-117 | VOC | 0.01 | 0.01 |
| A38D118 | Storage Tank D-118 | VOC | 0.01 | 0.01 |
| A38D119 | Storage Tank D-119 | VOC | 0.01 | 0.01 |
| A38D120 | Storage Tank D-120 | VOC | 0.01 | 0.01 |
| A38D121 | Storage Tank D-121 | VOC | 0.01 | 0.01 |
| A38D149 | Storage Tank D-149 | VOC | 0.04 | 0.04 |
| A38D153 | Storage Tank D-153 | VOC | 0.06 | 0.01 |

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| | | | lb/hr | TPY ** |
| A38D154 | Storage Tank D-154 | VOC | 0.01 | 0.01 |
| A38D159 | Storage Tank D-159 | VOC | 0.01 | 0.01 |
| A38D601 | Wastewater Tank D-601 | VOC | 0.01 | 0.02 |
| | | NH ₃ | 0.05 | 0.03 |
| A38D602 | Wastewater Tank D-602 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.05 | 0.03 |
| A38D603 | Mixed Amines Tank D-603 | VOC | 5.80 | 0.13 |
| A38D604 | Mixed Amines Tank D-604 | VOC | 5.80 | 0.13 |
| A38D700 | Storage Tank D-700 | VOC | 0.23 | 0.10 |
| A38PARTCLR | Maintenance Parts Cleaner | VOC | 0.25 | 0.25 |
| A38LAGOON1 | Lagoon 1 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 3.63 | 3.98 |
| A38LAGOON2 | Lagoon 2 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 3.63 | 3.98 |
| A38LAGOON3 | Lagoon 3 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| A38LAGOON4 | Lagoon 4 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| A38CS500 | CS-500 Adsorber | VOC | 0.42 | 0.38 |
| A38SU1062 | Sump SU-1062 | VOC | 0.04 | 0.07 |
| | | NH ₃ | 0.01 | 0.01 |
| A38SU1063 | Sump SU-1063 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |

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| | | | lb/hr | TPY ** |
| A38SU1064 | Sump SU-1064 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| A38SU1065 | Sump SU-1065 | VOC | 0.04 | 0.07 |
| | | NH ₃ | 0.01 | 0.01 |
| A38SU1066 | Sump SU-1066 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| A38SU1067 | Sump SU-1067 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.41 | 0.44 |
| A38SU1068 | Sump SU-1068 | VOC | 0.01 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| A38WW | Wastewater Collection System | VOC | 0.01 | 0.01 |
| | | NH ₃ | 1.36 | 2.97 |
| MSS-Line | MSS Line Breaks | VOC | 0.38 | 0.01 |
| | | NH ₃ | 0.03 | 0.01 |
| MSS-Wash | MSS Washouts | VOC | 4.42 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| MSS-Pan | MSS Pan Emissions | VOC | 0.82 | 0.06 |
| | | NH ₃ | 0.01 | 0.01 |
| MSS-Tran | MSS Transfer Pumps | VOC | 0.14 | 0.01 |
| | | NH ₃ | 0.01 | 0.01 |
| MSS-Frac | MSS Frac Tanks | VOC | 5.49 | 0.62 |
| | | NH ₃ | 0.63 | 1.00 |
| MSS-Prim | MSS Priming Pumps | VOC | 4.00 | 0.01 |
| | | NH ₃ | 2.00 | 0.01 |

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| | | | lb/hr | TPY ** |
| MSS-Aero | MSS Aerosols | VOC | 11.25 | 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.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NH₃ - ammonia
 VCM - vinyl chloride monomer
 EDC - ethylene dichloride
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The EDC and VCM emissions are included in total VOC.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated March 23, 2010