

Emission Sources - Maximum Allowable Emission Rates

Permit Number 93546

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) |
| T-69 | TK-069 (6) | VOC | 0.73 | 1.88 |
| | | Benzene | 0.01 | 0.02 |
| T-76 | TK-076 (6) | VOC | 0.81 | 1.98 |
| | | Benzene | 0.02 | 0.03 |
| T-90 | TK-090 (6) | VOC | 0.76 | 1.50 |
| | | Benzene | 0.01 | 0.02 |
| T-95 | TK-095 (6) | VOC | 1.55 | 2.43 |
| | | Benzene | 0.05 | 0.04 |
| T-96 | TK-096 (6) | VOC | 1.50 | 2.75 |
| | | Benzene | 0.04 | 0.04 |
| T-97 | TK-097 (6) | VOC | 1.99 | 2.70 |
| | | Benzene | 0.01 | 0.02 |
| T-98 | TK-098 (6) | VOC | 0.82 | 0.08 |
| T-99 | TK-099 (6) | VOC | 0.82 | 0.08 |
| T-100 | TK-100 (6) | VOC | 2.13 | 0.92 |
| T-101 | TK-101 (6) | VOC | 0.05 | 0.05 |
| T-106 | TK-106 (6) | VOC | 1.74 | 1.48 |
| T-107 | TK-107 (6) | VOC | 5.99 | 8.42 |
| | | Benzene | 0.02 | 0.04 |
| T-113 | TK-113 (6) | VOC | 0.15 | 0.06 |
| | | Benzene | <0.01 | <0.01 |

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| | | | | |
|-------|------------|---------|------|------|
| T-114 | TK-114 (6) | VOC | 0.98 | 2.36 |
| | | Benzene | 0.02 | 0.03 |
| T-115 | TK-115 (6) | VOC | 1.54 | 2.21 |
| | | Benzene | 0.01 | 0.01 |
| T-116 | TK-116 (6) | VOC | 2.16 | 3.02 |
| | | Benzene | 0.01 | 0.02 |
| T-117 | TK-117 (6) | VOC | 1.98 | 2.46 |
| | | Benzene | 0.01 | 0.01 |
| | | Toluene | 0.30 | 0.15 |
| | | Xylene | 0.28 | 0.07 |
| T-118 | TK-118 (6) | VOC | 2.50 | 3.63 |
| | | Benzene | 0.01 | 0.02 |
| T-119 | TK-119 (6) | VOC | 1.00 | 2.72 |
| T-123 | TK-123 (6) | VOC | 0.98 | 2.90 |
| | | Benzene | 0.02 | 0.04 |
| T-124 | TK-124 (6) | VOC | 0.95 | 2.81 |
| | | Benzene | 0.02 | 0.04 |
| T-125 | TK-125 (6) | VOC | 1.82 | 2.65 |
| | | Benzene | 0.03 | 0.04 |
| T-126 | TK-126 (6) | VOC | 0.94 | 2.99 |
| | | Benzene | 0.01 | 0.02 |
| T-127 | TK-127 (6) | VOC | 2.32 | 3.19 |
| | | Benzene | 0.04 | 0.05 |
| T-129 | TK-129 (6) | VOC | 2.12 | 7.08 |
| | | Benzene | 0.03 | 0.09 |
| T-130 | TK-130 (6) | VOC | 2.19 | 2.99 |
| | | Benzene | 0.04 | 0.05 |
| T-131 | TK-131 (6) | VOC | 2.53 | 6.31 |
| | | Benzene | 0.01 | 0.03 |

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| | | | | |
|-------|------------|---------|------|-------|
| T-132 | TK-132 (6) | VOC | 2.97 | 3.92 |
| T-133 | TK-133 (6) | VOC | 9.18 | 13.43 |
| | | Benzene | 0.03 | 0.05 |
| T-137 | TK-137 (6) | VOC | 2.53 | 7.87 |
| | | Benzene | 0.09 | 0.33 |
| T-139 | TK-139 (6) | VOC | 0.56 | 0.28 |
| T-140 | TK-140 (6) | VOC | 6.91 | 8.95 |
| | | Benzene | 0.02 | 0.04 |
| T-141 | TK-141 (6) | VOC | 3.68 | 4.93 |
| | | Benzene | 0.01 | 0.03 |
| T-142 | TK-142 (6) | VOC | 2.36 | 3.46 |
| | | Benzene | 0.04 | 0.05 |
| T-143 | TK-143 (6) | VOC | 2.79 | 3.99 |
| | | Benzene | 0.01 | 0.02 |
| T-144 | TK-144 (6) | VOC | 2.73 | 3.63 |
| | | Benzene | 0.01 | 0.02 |
| T-145 | TK-145 (6) | VOC | 2.95 | 3.96 |
| | | Benzene | 0.01 | 0.02 |
| T-146 | TK-146 (6) | VOC | 3.25 | 4.34 |
| | | Benzene | 0.01 | 0.02 |
| T-164 | TK-164 (6) | VOC | 2.20 | 2.67 |
| | | Benzene | 0.01 | 0.02 |
| T-165 | TK-165 (6) | VOC | 3.10 | 3.97 |
| | | Benzene | 0.01 | 0.02 |
| T-166 | TK-166 (6) | VOC | 2.51 | 2.78 |
| | | Benzene | 0.01 | 0.02 |

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| | | | | |
|-------|-------------|---------|-------|-------|
| T-167 | TK-167 (6) | VOC | 3.04 | 3.91 |
| | | Benzene | 0.01 | 0.02 |
| T-181 | TK-181 (6) | VOC | 3.87 | 5.50 |
| | | Benzene | 0.01 | 0.02 |
| T-182 | TK-182 (6) | VOC | 10.50 | 14.78 |
| | | Benzene | 0.03 | 0.06 |
| T-183 | TK-183 (6) | VOC | 20.69 | 27.98 |
| | | Benzene | 0.05 | 0.11 |
| T-190 | TK-190 (6) | VOC | 8.83 | 29.66 |
| | | Benzene | 0.12 | 0.37 |
| T-191 | TK-191 (6) | VOC | 2.49 | 7.77 |
| | | Benzene | 0.04 | 0.10 |
| T-192 | TK-192 (6) | VOC | 21.26 | 29.30 |
| | | Benzene | 0.05 | 0.11 |
| T-202 | TK-202 (6) | VOC | 2.15 | 2.36 |
| | | Benzene | 0.01 | 0.01 |
| T-210 | TK-210 (6) | VOC | 1.80 | 6.82 |
| | | Benzene | 0.01 | 0.02 |
| T-211 | TK-211 (6) | VOC | 2.09 | 6.89 |
| | | Benzene | 0.03 | 0.09 |
| 70 | TK-4007 (6) | VOC | 1.99 | 0.44 |
| 71 | TK-4008 (6) | VOC | 0.38 | 0.26 |
| 66 | TK-4012 (6) | VOC | 0.76 | 0.26 |
| 52 | TK-4013 (6) | VOC | 1.36 | 0.35 |
| 79 | TK-4035 (6) | VOC | 0.58 | 1.16 |
| | | Benzene | 0.01 | 0.01 |
| 54 | TK-4041 (6) | VOC | 0.85 | 0.06 |
| 53 | TK-4046 (6) | VOC | 1.70 | 0.44 |

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| | | | | |
|-------|-------------|---------|-------|-------|
| 28 | TK-4050 (6) | VOC | 29.24 | 39.37 |
| | | Benzene | 0.07 | 0.18 |
| 67 | TK-4051 (6) | VOC | 1.83 | 0.41 |
| 29 | TK-4057 (6) | VOC | 0.50 | 0.12 |
| T4064 | TK-4064 (6) | VOC | 0.81 | 0.04 |
| | | Benzene | 0.01 | 0.01 |
| 45 | TK-4065 (6) | VOC | 0.76 | 1.35 |
| | | Benzene | 0.01 | 0.01 |
| 46 | TK-4113 (6) | VOC | 1.83 | 0.44 |
| 48 | TK-4115 (6) | VOC | 1.71 | 0.76 |
| 49 | TK-4116 (6) | VOC | 1.71 | 0.87 |
| 38 | TK-4118 (6) | VOC | 2.86 | 3.84 |
| | | Benzene | 0.01 | 0.02 |
| 39 | TK-4119 (6) | VOC | 2.62 | 3.67 |
| | | Benzene | 0.05 | 0.05 |
| 40 | TK-4120 (6) | VOC | 2.67 | 3.80 |
| | | Benzene | 0.05 | 0.06 |
| 42 | TK-4121 (6) | VOC | 0.91 | 1.83 |
| | | Benzene | 0.01 | 0.01 |
| 43 | TK-4122 (6) | VOC | 0.89 | 1.81 |
| | | Benzene | 0.01 | 0.01 |
| 47 | TK-4123 (6) | VOC | 0.82 | 0.88 |
| | | Benzene | 0.01 | 0.01 |
| 44 | TK-4124 (6) | VOC | 1.56 | 4.45 |
| | | Benzene | 0.03 | 0.06 |
| 116 | TK-4285 (6) | VOC | 4.64 | 6.76 |
| | | Benzene | 0.02 | 0.03 |
| 118 | TK-4601 (6) | VOC | 0.75 | 1.35 |
| | | Benzene | 0.01 | 0.01 |

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| | | | | |
|---------|-------------|---------|-------|-------|
| 119 | TK-4602 (6) | VOC | 3.01 | 1.40 |
| 120 | TK-4603 (6) | VOC | 3.01 | 1.41 |
| 124 | TK-4605 (6) | VOC | 4.28 | 13.91 |
| | | Benzene | 0.06 | 0.18 |
| TANK504 | TK-504 (6) | VOC | 2.54 | 0.04 |
| | | Benzene | 0.03 | 0.01 |
| TANK506 | TK-506 (6) | VOC | 0.33 | 0.01 |
| VENT507 | TK-507 (6) | VOC | 0.33 | 0.01 |
| TANK508 | TK-508 (6) | VOC | 0.83 | 1.35 |
| | | Benzene | 0.01 | 0.01 |
| TANK509 | TK-509 (6) | VOC | 12.18 | 6.68 |
| PRV512 | TK-512 (6) | VOC | 0.13 | 0.01 |
| | | Benzene | 0.01 | 0.01 |
| TANK513 | TK-513 (6) | VOC | 0.89 | 1.44 |
| | | Benzene | 0.01 | 0.01 |
| | | Toluene | 1.28 | 0.12 |
| | | Xylene | 1.26 | 0.08 |
| TANK514 | TK-514 (6) | VOC | 0.72 | 1.16 |
| | | Benzene | 0.01 | 0.01 |
| | | Toluene | 0.79 | 0.13 |
| | | Xylene | 0.78 | 0.09 |
| TANK515 | TK-515 (6) | VOC | 0.70 | 1.08 |
| | | Benzene | 0.01 | 0.01 |
| TANK516 | TK-516 (6) | VOC | 0.70 | 1.11 |
| | | Benzene | 0.01 | 0.01 |
| TK-517 | TK-517 (6) | VOC | 1.85 | 0.15 |
| VENT518 | TK-518 (6) | VOC | 1.85 | 0.11 |
| VENT519 | TK-519 (6) | VOC | 1.85 | 0.07 |

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| | | | | |
|-----------|--|------------------|-------|-------|
| TANK520 | TK-520 (6) | VOC | 0.59 | 1.14 |
| | | Benzene | 0.01 | 0.01 |
| TANK521 | TK-521 (6) | VOC | 1.06 | 1.62 |
| | | Benzene | 0.01 | 0.01 |
| TANK522 | TK-522 (6) | VOC | 1.13 | 1.79 |
| | | Benzene | 0.01 | 0.01 |
| T-524 | TK-524 (6) | VOC | 0.09 | 0.05 |
| F-10N-T | North Plant Utilities Fugitives (5) (6) | VOC | 0.28 | 1.23 |
| | | H ₂ S | <0.01 | <0.01 |
| WWCTS-T | North API Separator Fugitives (5) (6) | VOC | <0.01 | <0.01 |
| | | Benzene | <0.01 | <0.01 |
| | | H ₂ S | <0.01 | <0.01 |
| | | NH ₃ | <0.01 | <0.01 |
| TNK-FUG-T | Tank Field Piping Fugitives (5) (6) | VOC | 16.75 | 73.35 |
| | | Benzene | 0.20 | 0.86 |
| | | H ₂ S | <0.01 | <0.01 |
| F-16S-T | Receiving, Pumping, and Shipping Fugitives (5) (6) | VOC | 11.05 | 48.41 |
| | | Benzene | 0.10 | 0.44 |
| | | H ₂ S | <0.01 | <0.01 |
| FUG-T | Terminal Fugitives (5) (6) | VOC | 4.72 | 20.65 |
| | | Benzene | 0.05 | 0.18 |
| | | H ₂ S | <0.01 | <0.01 |
| SLR1 | South Railcar Loading Rack (6) | VOC | 3.89 | 0.31 |
| | | H ₂ S | <0.01 | <0.01 |
| SLR2 | South LPG Tanktruck Loading Rack (6) | VOC | 0.10 | 0.01 |
| SLR4 | South Acid/Caustic Tanktruck Loading Rack (6) | VOC | 10.53 | 1.05 |
| | | H ₂ S | <0.01 | <0.01 |
| NLR2-5 | North Railcar and | VOC | 2.16 | 4.76 |

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| | | | | |
|--------------------------------|--|-------------------|--------|--------|
| | Tanktruck Loading Rack (6) | | | |
| NLR 2-5 | North Loading Rack NLR3 (6) | VOC | 8.27 | 0.81 |
| | | Toluene | 1.18 | 0.11 |
| | | Xylene | 0.61 | 0.06 |
| NLR2-5 | North Caustic Loading Rack (6) | VOC | 5.28 | 0.09 |
| | | H ₂ S | <0.01 | <0.01 |
| NLR-6 | Solid Waste Gondola Loading Rack (6) | PM | 3.24 | 0.19 |
| | | PM ₁₀ | 1.62 | 0.10 |
| | | PM _{2.5} | 1.62 | 0.10 |
| NLR-7 | North Asphalt Feed Loading Rack (6) | VOC | 0.04 | <0.01 |
| LLPG-TC | North LPG Railcar and Tanktruck Loading Rack (6) | VOC | 0.40 | 0.09 |
| CA-SK | Terminal Tank Truck Loading Rack VRU (6) | VOC | 0.79 | 1.52 |
| LRACK-FUG | Terminal Loading Rack Hose Fugitives (6) | VOC | 0.16 | 0.20 |
| VACLR | Vacuum Residue Loading (6) | VOC | 0.01 | 0.01 |
| CA-SK | Marketing Terminal Sump-1 (6) | VOC | 0.14 | 0.60 |
| CA-SK | Marketing Terminal Sump-2 (6) | VOC | 0.14 | 0.60 |
| Compliance Caps - Final (5)(6) | | PM | 3.24 | 0.19 |
| | | PM ₁₀ | 1.62 | 0.10 |
| | | PM _{2.5} | 1.62 | 0.10 |
| | | VOC | 243.00 | 282.00 |
| | | Benzene | 0.55 | 1.20 |

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| | | | | |
|-----------|---|-------------------|--------|-------|
| MSS CAP | Sitewide MSS Sources Excluding Flares | VOC | 348.76 | 66.92 |
| | | NO _x | 1.49 | 9.94 |
| | | CO | 0.44 | 2.19 |
| | | SO ₂ | 0.19 | 0.75 |
| | | PM | 8.86 | 1.72 |
| | | PM ₁₀ | 8.86 | 1.72 |
| | | PM _{2.5} | 8.86 | 1.72 |
| | | H ₂ S | 0.01 | 0.01 |
| XF 3601 | Asphalt Plant – Furnace F-3601 | VOC | 0.72 | 3.15 |
| | | NO _x | 1.99 | 8.72 |
| | | CO | 14.16 | 62.01 |
| | | SO ₂ | 1.98 | 8.67 |
| | | PM | 0.63 | 2.76 |
| | | PM ₁₀ | 0.63 | 2.76 |
| | | PM _{2.5} | 0.63 | 2.76 |
| | | H ₂ S | 0.06 | 0.26 |
| TTLR/TCLR | Asphalt Plant – Loading Rack | VOC | 0.12 | 0.11 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3601 | Asphalt Tank D-3601 | VOC | 0.29 | 0.81 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3602 | Asphalt Tank D-3602 | VOC | 0.29 | 0.81 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3605 | Asphalt Tank D-3605 | VOC | 0.74 | 0.63 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3606 | Asphalt Tank D-3606 | VOC | 0.26 | 0.63 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3607 | Asphalt Tank D-3607 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3608 | Asphalt Tank D-3608 | VOC | 0.15 | 0.04 |

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| | | | | |
|-----------|---------------------|------------------|-------|-------|
| | | H ₂ S | <0.01 | <0.01 |
| - - - - - | Asphalt Tank D-3609 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| - - - - - | Asphalt Tank D-3610 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| - - - - - | Asphalt Tank D-3611 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3612 | Asphalt Tank D-3612 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3623 | Asphalt Tank D-3623 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3624 | Asphalt Tank D-3624 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3625 | Asphalt Tank D-3625 | VOC | 0.15 | 0.06 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3627 | Asphalt Tank D-3627 | VOC | 0.15 | 0.06 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3628 | Asphalt Tank D-3628 | VOC | 0.14 | 0.02 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3629 | Asphalt Tank D-3629 | VOC | 0.14 | 0.02 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3630 | Asphalt Tank D-3630 | VOC | 0.15 | 0.04 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3670 | Asphalt Tank D-3670 | VOC | 0.14 | 0.01 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3671 | Asphalt Tank D-3671 | VOC | 0.14 | 0.01 |
| | | H ₂ S | <0.01 | <0.01 |
| D-3672 | Asphalt Tank D-3672 | VOC | 0.14 | 0.01 |
| | | H ₂ S | <0.01 | <0.01 |

Emission Sources - Maximum Allowable Emission Rates

| FUELFUG | Asphalt Plant Fugitives (5) | VOC | 1.73 | 7.60 |
|--|---|------------------|------|------|
| (1) Emission point identification - either specific equipment designation or emission point number from plot plan. | | H ₂ S | 0.01 | 0.03 |
| (2) Specific point source name. For fugitive sources, use area name or fugitive source name. | | VOC | 2.45 | 0.45 |
| (3) 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 representedPM₁₀- total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as representedPM_{2.5}

- particulate matter equal to or less than 2.5 microns in diameter

CO

- carbon monoxide

H₂S

- hydrogen sulfide

(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.

(6) Total emission rates from these emission points shall comply with compliance caps contained in this MAERT.

Date: February 26, 2021