

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 19849

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.<br>(1) | Source Name (2)             | Air Contaminant Name (3) | Emission Rates |         |
|---------------------------|-----------------------------|--------------------------|----------------|---------|
|                           |                             |                          | lbs/hour       | TPY (4) |
| C39                       | Scrubber Column Vent        | Acetone                  | 0.52           | 1.43    |
|                           |                             | VOC                      | 0.98           | 2.68    |
| C803                      | Stabilizer Column Vent      | Acetone                  | 0.54           | 0.18    |
|                           |                             | VOC                      | 4.32           | 1.44    |
| D344                      | Finished MIBK               | VOC                      | 0.53           | 0.17    |
| D348                      | Finished MIBK               | VOC                      | 0.21           | 0.22    |
| D368                      | 50 Percent Caustic Solution | NaOH                     | 0.01           | 0.01    |
| D382                      | 50 Percent Caustic Solution | NaOH                     | 0.01           | 0.01    |
| FTRUCK                    | Truck Loading Fugitives (5) | VOC                      | 0.55           | 0.18    |
| J801                      | Column Accumulator Vent     | Acetone                  | 1.99           | 3.10    |
|                           |                             | VOC                      | 0.01           | 0.01    |
| J802                      | Column Accumulator Vent     | Acetone                  | 0.23           | 1.02    |
|                           |                             | VOC                      | 0.01           | 0.05    |
| NAOHREGEN                 | Converter NaOH Stack        | Acetone                  | 0.02           | 0.01    |
| S414                      | Citric Acid Solution        | VOC                      | 0.01           | 0.01    |
| SCRWRTC and SCRWRTT       | Condenser/Scrubber (5)      | VOC                      | 0.67           | 0.22    |
| SE243                     | Scrubber Vent (FIN C47)     | Acetone                  | 2.88           | 12.59   |
|                           |                             | VOC                      | 0.01           | 0.01    |

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|        |              |         |      |      |
|--------|--------------|---------|------|------|
| T140B  | Tank T-140B  | Acetone | 1.10 | 3.33 |
|        |              | VOC     | 0.28 | 0.56 |
| T183   | Tank T-183   | VOC     | 0.05 | 0.01 |
| T198   | Tank T-198   | VOC     | 0.23 | 0.02 |
| T199   | Tank T-199   | VOC     | 0.10 | 0.01 |
| T2406C | Tank T-2406C | VOC     | 0.01 | 0.01 |
| T303R1 | Tank T-303R1 | Acetone | 0.04 | 0.08 |
|        |              | VOC     | 0.04 | 0.08 |
| T310R1 | Tank T-310R1 | VOC     | 0.20 | 0.15 |
| T3150  | Tank T-3150  | VOC     | 0.85 | 0.13 |
| T3222  | Tank T-3222  | Acetone | 5.63 | 0.20 |
|        |              | VOC     | 2.64 | 0.07 |
| T3227  | Tank T-3227  | Acetone | 5.64 | 0.19 |
|        |              | VOC     | 2.65 | 0.07 |
| T6251  | Tank T-6251  | VOC     | 0.01 | 0.01 |
| T654B  | Tank T-654B  | Acetone | 0.92 | 0.21 |
|        |              | VOC     | 0.12 | 0.03 |
| T655   | Tank T-655   | VOC     | 1.22 | 0.15 |
| T661   | Tank T-661   | VOC     | 0.08 | 0.09 |
| T663   | Tank T-663   | Acetone | 0.39 | 0.04 |
|        |              | VOC     | 3.28 | 0.21 |
| T664   | Tank T-664   | VOC     | 1.49 | 1.17 |
| T666R1 | Tank T-666R1 | VOC     | 0.15 | 0.19 |
| T667   | Tank T-667   | VOC     | 0.07 | 0.12 |
| T70A   | Tank T-70A   | Acetone | 4.38 | 0.24 |

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|      |                  |         |      |      |
|------|------------------|---------|------|------|
|      |                  | VOC     | 5.05 | 0.19 |
| T70B | Tank T-70B       | Acetone | 4.38 | 0.24 |
|      |                  | VOC     | 2.05 | 0.19 |
| T723 | Tank T-723       | VOC     | 0.09 | 0.01 |
| T724 | Tank T-724       | VOC     | 0.08 | 0.01 |
| T738 | Tank T-738       | VOC     | 0.01 | 0.01 |
| T739 | Tank T-739       | VOC     | 0.01 | 0.01 |
| T765 | Tank T-765       | VOC     | 0.01 | 0.01 |
| T77B | Tank T-77B       | VOC     | 0.82 | 0.19 |
| T780 | Tank T-780       | VOC     | 0.01 | 0.01 |
| T781 | Tank T-781       | VOC     | 1.12 | 1.10 |
| T788 | Tank T-788       | VOC     | 0.01 | 0.01 |
| T801 | Tank T-801       | Acetone | 0.13 | 0.01 |
|      |                  | VOC     | 0.92 | 0.06 |
| T802 | Tank T-802       | Acetone | 0.13 | 0.01 |
|      |                  | VOC     | 0.92 | 0.06 |
| T803 | Tank T-803       | Acetone | 0.13 | 0.01 |
|      |                  | VOC     | 0.92 | 0.06 |
| T804 | Tank T-804       | Acetone | 0.26 | 0.03 |
|      |                  | VOC     | 1.84 | 0.16 |
| T805 | Tank T-805       | Acetone | 0.26 | 0.03 |
|      |                  | VOC     | 1.84 | 0.16 |
| T806 | Tank T-806       | Acetone | 2.18 | 0.68 |
|      |                  | VOC     | 0.92 | 0.25 |
| V274 | Vessel V274 Vent | Acetone | 0.09 | 0.01 |

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|           |                                 |         |       |      |
|-----------|---------------------------------|---------|-------|------|
|           |                                 | VOC     | 0.01  | 0.01 |
| WRTC/WRTT | Tank Truck/Rail Car Loading (5) | VOC     | 13.43 | 1.22 |
|           |                                 | Acetone | 0.07  | 0.04 |
| WRTT      | Tank Truck Loading (5)          | VOC     | 6.75  | 0.18 |
|           |                                 | Acetone | 3.93  | 0.13 |

- (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  
NaOH – Sodium Hydroxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Contributions from M and H Plant only.

Date: October 9, 2013