

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM

Permit Number 3467B

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<br>Point No. (1) | Source<br>Name (2)         | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|----------------------------|-----------------------------|-------------------------------------|
| B-001                     | Storage Tank B-1 (6.2 MB)  | VOC                         | 77.19                               |
| B-002                     | Storage Tank B-2 (6.2 MB)  | VOC                         | 77.19                               |
| B-003                     | Storage Tank B-3 (6.2 MB)  | VOC                         | 77.19                               |
| B-004                     | Storage Tank B-4 (6.2 MB)  | VOC                         | 77.19                               |
| B-005                     | Storage Tank B-5 (6.2 MB)  | VOC                         | 77.19                               |
| B-006                     | Storage Tank B-6 (6.2 MB)  | VOC                         | 77.19                               |
| B-007                     | Storage Tank B-7 (6.2 MB)  | VOC                         | 77.19                               |
| B-008                     | Storage Tank B-8 (6.2 MB)  | VOC                         | 77.19                               |
| B-009                     | Storage Tank B-9 (6.2 MB)  | VOC                         | 77.19                               |
| B-010                     | Storage Tank B-10 (6.2 MB) | VOC                         | 77.19                               |
| B-011                     | Storage Tank B-11 (6.2 MB) | VOC                         | 77.19                               |
| B-012                     | Storage Tank B-12 (6.2 MB) | VOC                         | 77.19                               |
| B-013                     | Storage Tank B-13 (6.2 MB) | VOC                         | 77.19                               |
| B-014                     | Storage Tank B-14 (6.2 MB) | VOC                         | 77.19                               |
| B-015                     | Storage Tank B-15 (6.2 MB) | VOC                         | 77.19                               |
| B-016                     | Storage Tank B-16 (6.2 MB) | VOC                         | 77.19                               |

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| Emission<br>Point No. (1) | Source<br>Name (2)         | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|----------------------------|-----------------------------|-------------------------------------|
| B-017                     | Storage Tank B-17 (6.2 MB) | VOC                         | 77.19                               |
| B-018                     | Storage Tank B-18 (6.2 MB) | VOC                         | 77.19                               |
| B-019                     | Storage Tank B-19 (6.2 MB) | VOC                         | 77.19                               |
| B-020                     | Storage Tank B-20 (6.2 MB) | VOC                         | 77.19                               |
| B-021                     | Storage Tank B-21 (6.2 MB) | VOC                         | 77.19                               |
| B-022                     | Storage Tank B-22 (6.2 MB) | VOC                         | 77.19                               |
| B-023                     | Storage Tank B-23 (6.2 MB) | VOC                         | 77.19                               |
| B-024                     | Storage Tank B-24 (6.2 MB) | VOC                         | 77.19                               |
| B-025                     | Storage Tank B-25 (6.2 MB) | VOC                         | 77.19                               |
| B-026                     | Storage Tank B-26 (6.2 MB) | VOC                         | 77.19                               |
| B-027                     | Storage Tank B-27 (6.2 MB) | VOC                         | 77.19                               |
| B-028                     | Storage Tank B-28 (6.2 MB) | VOC                         | 77.19                               |
| B-029                     | Storage Tank B-29 (6.2 MB) | VOC                         | 77.19                               |
| B-030                     | Storage Tank B-30 (6.2 MB) | VOC                         | 77.19                               |
| B-031                     | Storage Tank B-31 (6.2 MB) | VOC                         | 77.19                               |
| B-032                     | Storage Tank B-32 (6.2 MB) | VOC                         | 77.19                               |
| B-033                     | Storage Tank B-33 (6.2 MB) | VOC                         | 77.19                               |
| B-034                     | Storage Tank B-34 (6.2 MB) | VOC                         | 77.19                               |
| B-035                     | Storage Tank B-35 (6.2 MB) | VOC                         | 77.19                               |

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| Emission<br>Point No. (1) | Source<br>Name (2)           | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|------------------------------|-----------------------------|-------------------------------------|
| B-036                     | Storage Tank B-36 (6.2 MB)   | VOC                         | 77.19                               |
| B-037                     | Storage Tank B-37 (6.2 MB)   | VOC                         | 77.19                               |
| B-038                     | Storage Tank B-38 (6.2 MB)   | VOC                         | 77.19                               |
| B-039                     | Storage Tank B-39 (6.2 MB)   | VOC                         | 77.19                               |
| B-040                     | Storage Tank B-40 (6.2 MB)   | VOC                         | 77.19                               |
| B-041                     | Storage Tank B-41 (7.0MB)    | VOC                         | 77.19                               |
| B-200                     | Storage Tank B-200 (12.5 MB) | VOC                         | 86.83                               |
| B-201                     | Storage Tank B-201 (12.5 MB) | VOC                         | 86.83                               |
| B-202                     | Storage Tank B-202 (12.5 MB) | VOC                         | 86.83                               |
| B-203                     | Storage Tank B-203 (12.5 MB) | VOC                         | 86.83                               |
| B-204                     | Storage Tank B-204 (12.5 MB) | VOC                         | 86.83                               |
| B-205                     | Storage Tank B-205 (12.5 MB) | VOC                         | 86.83                               |
| B-206                     | Storage Tank B-206 (12.5 MB) | VOC                         | 86.83                               |
| B-207                     | Storage Tank B-207 (12.5 MB) | VOC                         | 86.83                               |
| B-208                     | Storage Tank B-208 (12.5 MB) | VOC                         | 86.83                               |
| B-209                     | Storage Tank B-209 (12.5 MB) | VOC                         | 86.83                               |
| B-210                     | Storage Tank B-210 (12.5 MB) | VOC                         | 86.83                               |
| B-211                     | Storage Tank B-211 (12.5 MB) | VOC                         | 86.83                               |

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| Emission<br>Point No. (1) | Source<br>Name (2)           | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|------------------------------|-----------------------------|-------------------------------------|
| B-212                     | Storage Tank B-212 (3.6 MB)  | VOC                         | 77.19                               |
| B-213                     | Storage Tank B-213 (6.7 MB)  | VOC                         | 77.19                               |
| B-214                     | Storage Tank B-214 (12.5 MB) | VOC                         | 86.83                               |
| B-215                     | Storage Tank B-215 (12.5 MB) | VOC                         | 86.83                               |
| B-216                     | Storage Tank B-216 (6.7 MB)  | VOC                         | 77.19                               |
| B-217                     | Storage Tank B-217 (37.5 MB) | VOC                         | 46.32                               |
| B-218                     | Storage Tank B-218 (37.5 MB) | VOC                         | 46.32                               |
| B-219                     | Storage Tank B-219 (12.5 MB) | VOC                         | 86.83                               |
| B-220                     | Storage Tank B-220 (12.5 MB) | VOC                         | 86.83                               |
| B-221                     | Storage Tank B-221 (12.5 MB) | VOC                         | 86.83                               |
| B-222                     | Storage Tank B-222 (12.5 MB) | VOC                         | 86.83                               |
| B-300                     | Storage Tank B-300 (25 MB)   | VOC                         | 115.78                              |
| B-301                     | Storage Tank B-301 (25 MB)   | VOC                         | 115.78                              |
| B-302                     | Storage Tank B-302 (25 MB)   | VOC                         | 115.78                              |
| B-303                     | Storage Tank B-303 (25 MB)   | VOC                         | 115.78                              |
| B-304                     | Storage Tank B-304 (25 MB)   | VOC                         | 115.78                              |
| B-305                     | Storage Tank B-305 (25 MB)   | VOC                         | 115.78                              |

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## AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2)         | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|----------------------------|-----------------------------|-------------------------------------|
| B-306                     | Storage Tank B-306 (25 MB) | VOC                         | 115.78                              |
| B-307                     | Storage Tank B-307 (25 MB) | VOC                         | 115.78                              |
| B-308                     | Storage Tank B-308 (25 MB) | VOC                         | 115.78                              |
| B-309                     | Storage Tank B-309 (25 MB) | VOC                         | 115.78                              |
| B-310                     | Storage Tank B-310 (25 MB) | VOC                         | 115.78                              |
| B-311                     | Storage Tank B-311 (25 MB) | VOC                         | 115.78                              |
| B-313                     | Storage Tank B-313 (30 MB) | VOC                         | 46.32                               |
| B-400                     | Storage Tank B-400 (50 MB) | VOC                         | 46.32                               |
| B-401                     | Storage Tank B-401 (50 MB) | VOC                         | 46.32                               |
| B-402                     | Storage Tank B-402 (50 MB) | VOC                         | 46.32                               |
| B-403                     | Storage Tank B-403 (50 MB) | VOC                         | 46.32                               |
| B-404                     | Storage Tank B-404 (50 MB) | VOC                         | 46.32                               |
| B-405                     | Storage Tank B-405 (50 MB) | VOC                         | 46.32                               |
| B-406                     | Storage Tank B-406 (50 MB) | VOC                         | 46.32                               |
| B-407                     | Storage Tank B-407 (50 MB) | VOC                         | 46.32                               |
| B-408                     | Storage Tank B-408 (50 MB) | VOC                         | 46.32                               |
| B-409                     | Storage Tank B-409 (50 MB) | VOC                         | 46.32                               |
| B-410                     | Storage Tank B-410 (50 MB) | VOC                         | 46.32                               |

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| Emission<br>Point No. (1) | Source<br>Name (2)             | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|--------------------------------|-----------------------------|-------------------------------------|
| B-411                     | Storage Tank B-411 (50 MB)     | VOC                         | 46.32                               |
| B-412                     | Storage Tank B-412 (50 MB)     | VOC                         | 46.32                               |
| B-413                     | Storage Tank B-413 (50 MB)     | VOC                         | 46.32                               |
| B-414                     | Storage Tank B-414 (50 MB)     | VOC                         | 46.32                               |
| B-415                     | Storage Tank B-415 (50 MB)     | VOC                         | 46.32                               |
| B-500                     | Storage Tank B-500 (80 MB)     | VOC                         | 68.82                               |
| B-501                     | Storage Tank B-501 (80 MB)     | VOC                         | 68.82                               |
| B-502                     | Storage Tank B-502 (80 MB)     | VOC                         | 68.82                               |
| B-503                     | Storage Tank B-503 (80 MB)     | VOC                         | 68.82                               |
| B-504                     | Storage Tank B-504 (80 MB)     | VOC                         | 68.82                               |
| B-505                     | Storage Tank B-505 (50 MB)     | VOC                         | 68.82                               |
| B-506                     | Storage Tank B-506 (50 MB)     | VOC                         | 68.82                               |
| B-507                     | Storage Tank B-507 (80 MB)     | VOC                         | 68.82                               |
| B-511                     | Storage Tank B-511 (80 MB) (6) | VOC                         | 68.82                               |
| B-512                     | Storage Tank B-512 (80 MB) (6) | VOC                         | 68.82                               |
| B-513                     | Storage Tank B-513 (80 MB) (6) | VOC                         | 68.82                               |
| B-514                     | Storage Tank B-514 (80 MB) (6) | VOC                         | 68.82                               |
| B-515                     | Storage Tank B-515 (80 MB) (6) | VOC                         | 68.82                               |

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| Emission<br>Point No. (1) | Source<br>Name (2)              | Air Contaminant<br>Name (3) | Emission Rates *<br>lb/hr ** |
|---------------------------|---------------------------------|-----------------------------|------------------------------|
| B-701                     | Storage Tank B-701 (50 MB)      | VOC                         | 46.32                        |
| B-702                     | Storage Tank B-702 (50 MB)      | VOC                         | 46.32                        |
| B-703                     | Storage Tank B-703 (50 MB)      | VOC                         | 46.32                        |
| B-704                     | Storage Tank B-704 (50 MB)      | VOC                         | 46.32                        |
| B-800                     | Storage Tank B-800 (150 MB)     | VOC                         | 3.68+                        |
| B-900                     | Storage Tank B-900 (100 MB) (6) | VOC                         | 10.90                        |
| 26                        | Tank V9201 (47 MB)              | VOC                         | 2.33+                        |
| 27                        | Tank V9202 (5 MB)               | VOC                         | 1.59+                        |
| 28                        | Tank V9203 (20 MB)              | VOC                         | 1.83+                        |
| 29                        | Tank V9204 (7 MB)               | VOC                         | 1.59+                        |
| 30                        | Tank V9205 (20 MB)              | VOC                         | 1.83+                        |
| 31                        | Tank V9206 (8 MB)               | VOC                         | 1.58+                        |
| 32                        | Tank V9217 (14 MB)              | VOC                         | 1.58+                        |
| 33                        | Tank V9301 (15 MB)              | VOC                         | 1.58+                        |
| 34                        | Tank V9302 (8 MB)               | VOC                         | 1.58+                        |
| 35                        | Tank V9303 (7.5 MB)             | VOC                         | 1.58+                        |
| 36                        | Tank V9304 (8 MB)               | VOC                         | 1.58+                        |
| 37                        | Tank V9305 (10 MB)              | VOC                         | 1.58+                        |

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| Emission<br>Point No. (1) | Source<br>Name (2)               | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr ** |
|---------------------------|----------------------------------|-----------------------------|-------------------------------------|
| 38                        | Tank V9306 (10 MB)               | VOC                         | 1.58+                               |
| 39                        | Tank V9407 (5 MB)                | VOC                         | 2.96+                               |
| 58                        | Tank V9401 (115 MB)              | VOC                         | 2.96+                               |
| 59                        | Tank V9402 (115 MB)              | VOC                         | 2.96+                               |
| 60                        | Tank V9403 (115 MB)              | VOC                         | 2.96+                               |
| 65                        | Tank V9223 (12 MB)               | VOC                         | 3.00                                |
| 67                        | Tank V9701 (142 MB)              | VOC                         | 3.68+                               |
| 75                        | Tank V9227 (7 MB)                | VOC                         | 1.58+                               |
| 81                        | Tank V9601 (1 MB)                | VOC                         | 0.75                                |
| 82                        | Tank V9602 (2 KB)                | VOC                         | 0.11                                |
| 83                        | Tank V9603 (2 KB)                | VOC                         | 0.11                                |
| 84                        | Tank V9604 (2 KB)                | VOC                         | 0.11                                |
| 87                        | Tank V9608 (8 KB)                | VOC                         | 0.40                                |
| 96                        | Tank V9606 (8 KB)                | VOC                         | 0.24                                |
| 100                       | Tank V9266 (48 MB)               | VOC                         | 2.33+                               |
| 101                       | Tank V1422 (20 MB)               | VOC                         | 3.00                                |
| 103                       | Waste Storage Tank V1516 (12 MB) | VOC                         | 1.58+                               |
| 104                       | Waste Sump V1517                 | VOC                         | 0.13                                |



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| Emission<br>Point No. (1) | Source<br>Name (2)                                | Air Contaminant<br>Name (3) | Emission Rates *<br>lb/hr ** |
|---------------------------|---|-----------------------------|------------------------------|
| 105                       | Waste Sump V1518                                  | VOC                         | 0.13                         |
| 108                       | Waste Sump V9246                                  | VOC                         | 0.02                         |
| 109                       | Waste Sump V9263                                  | VOC                         | 0.07                         |
| 110                       | Waste Sump V9264                                  | VOC                         | 0.33                         |
| 111                       | Waste Sump V9265                                  | VOC                         | 0.33                         |
| 112                       | Wastewater Tank V9207                             | VOC                         | 0.42                         |
| 113                       | Wastewater Tank V9225                             | VOC                         | 0.42                         |
| 14                        | Tank Truck/ Railcar Loading                       | VOC                         | 0.64                         |
| LR-1                      | Tank Truck/Rail Car<br>Loading Rack<br>(34 Spots) | VOC                         | 43.28<br>(per spot)          |
| LR-2                      | Tank Truck Loading Rack<br>(4 Spots)              | VOC                         | 13.52<br>(per spot)          |
| LR-3                      | Tank Truck Loading Rack<br>(6 Spots)              | VOC                         | 13.52<br>(per spot)          |
| LR-4                      | Rail Car Loading Rack<br>(24 Spots)               | VOC                         | 43.28<br>(per spot)          |
| LR-5                      | Tank Truck Loading Rack<br>(4 spots)              | VOC                         | 13.52<br>(per spot)          |
| SRT 1-5                   | Tank Truck Unloading Rack                         | VOC                         | (5)                          |
| 1                         | Ship Dock No. 1 Loading                           | VOC                         | 1.81                         |
| MT-1                      | Ship Dock No. 2 Loading                           | VOC                         | 22.72                        |

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| Emission<br>Point No. (1) | Source<br>Name (2)                                      | Air Contaminant<br>Name (3) | Emission Rates *<br>lb/hr ** |
|---------------------------|---|-----------------------------|------------------------------|
| MT-2                      | Ship Dock No. 3 Loading                                 | VOC                         | 22.72                        |
| 2                         | Barge Dock No. 1 and No. 2<br>Loading                   | VOC                         | 0.31                         |
| BG-1                      | Barge Dock No. 3 (4 Berths)<br>Loading                  | VOC                         | 56.80                        |
| 3                         | Drum Loading  | VOC                         | 12.30                        |
| FL-1                      | Truck/Railcar Loading Rack<br>(Flare No. 1)             | VOC                         | 14.99                        |
|                           |   | NO <sub>x</sub>             | 0.79                         |
|                           |   | CO                          | 6.81                         |
| FL-2                      | Styrene Storage Tanks Flare                             | VOC                         | 14.99                        |
|                           |   | NO <sub>x</sub>             | 0.79                         |
|                           |   | CO                          | 6.81                         |
| FL-3                      | Loading Rack Flare No. 2                                | VOC                         | 14.99                        |
|                           |   | NO <sub>x</sub>             | 0.79                         |
|                           |   | CO                          | 6.81                         |
| FL-4                      | Marine Loading (Flare)                                  | VOC                         | 33.25                        |
|                           |   | NO <sub>x</sub>             | 2.08                         |
|                           |   | CO                          | 17.92                        |
| FL-5                      | Marine Flare  | VOC                         | 33.25                        |
|                           |   | NO <sub>x</sub>             | 2.08                         |
|                           |   | CO                          | 17.92                        |
| FL-6                      | Emergency Flare   | VOC                         | 0.18                         |
|                           |   | NO <sub>x</sub>             | 0.02                         |
|                           |   | CO                          | 0.04                         |
| VO-1                      | Truck/Railcar/Barge/Ship/Drum/<br>Storage Tanks Loading | VOC                         | 6.00                         |
|                           |   | NO <sub>x</sub>             | 10.97                        |

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AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2)                               | Air Contaminant<br>Name (3) | Emission Rates *<br>lb/hr ** |
|---------------------------|--|-----------------------------|------------------------------|
|                           | and Depressurizing<br>(Vapor Oxidizer)           | CO                          | 5.43                         |
|                           |  | SO <sub>2</sub>             | 0.04                         |
|                           |  | PM <sub>10</sub>            | 0.49                         |
| FUG, FUG-M<br>FU-1        | Fugitives (4)                                    | VOC                         | 8.95                         |
| BLR-3                     | Cleaver Brooks Steam<br>Boiler (600 Horsepower)  | VOC                         | 0.07                         |
|                           |  | NO <sub>x</sub>             | 3.48                         |
|                           |  | CO                          | 0.87                         |
|                           |  | SO <sub>2</sub>             | 0.36                         |
|                           |  | PM <sub>10</sub>            | 0.15                         |
| BLR-4                     | Reliance 3WB350 Steam<br>Boiler (350 Horsepower) | VOC                         | 0.04                         |
|                           |  | NO <sub>x</sub>             | 2.09                         |
|                           |  | CO                          | 0.52                         |
|                           |  | SO <sub>2</sub>             | 0.21                         |
|                           |  | PM <sub>10</sub>            | 0.09                         |
| B-1                       | 6.5 MMBtu/hr Boiler                              | VOC                         | 0.03                         |
|                           |  | NO <sub>x</sub>             | 0.63                         |
|                           |  | CO                          | 0.53                         |
|                           |  | SO <sub>2</sub>             | <0.01                        |
|                           |  | PM <sub>10</sub>            | 0.05                         |

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| Emission<br>Point No. (1)              | Source<br>Name (2)  | Air Contaminant<br>Name (3)   | <u>Emission Rates *</u><br>TPY ***    |
|--|---|---|---------------------------------------|
| B-001 thru B-900,<br>26-113            | Storage Tanks   | VOC   | 139.63                                |
| LR-1, LR-2, LR-3,<br>LR-4, LR-5, 3, 14 | Truck/Rail/Drum Loading and<br>Depressurizing<br>All Spots (No Controls)                          | VOC   | 4.21                                  |
| BG-1, MT-1, MT-2,<br>1,2               | Barge/Ship Loading,<br>All Docks (No Controls)  | VOC   | 14.76                                 |
| FL-1, FL-2,<br>FL-3, FL-6              | Flares - Land Based   | VOC<br>NO <sub>x</sub><br>CO  | 5.30<br>1.30<br>11.12                 |
| FL-4, FL-5                             | Flares - Marine Loading   | VOC<br>NO <sub>x</sub><br>CO  | 22.00<br>2.08<br>17.96                |
| VO-1                                   | Truck/Railcar/Barge/Ship/Drum/<br>Storage Tanks Loading<br>and Depressurizing<br>(Vapor Oxidizer) | VOC<br>NO <sub>x</sub><br>CO<br>SO <sub>2</sub><br>PM <sub>10</sub> | 1.93<br>20.46<br>9.12<br>0.07<br>0.82 |
| BLR-3, BLR-4,<br>B-1                   | Steam Boilers   | VOC<br>NO <sub>x</sub><br>CO<br>SO <sub>2</sub><br>PM <sub>10</sub> | 0.59<br>25.00<br>7.86<br>2.29<br>1.20 |
| FUG, FUG-M,<br>FU-1                    | Fugitives (4)   | VOC   | 22.48                                 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

- (1) Emission point identification - either specific equipment designation or emission point number 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  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Unloading, vapor balance, or vapor control service only (no emissions).
- (6) Not yet constructed as of May 2004.

\* Emission rates are based on continuous operations.

\*\* Short-term storage tank allowable emission rates are based on operation as fixed-roof tanks. Tanks shown with a '+' have been calculated based on gasoline in an IFR and does not reflect maximum emission rate when operated as a fixed roof tank.

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

Dated June 25, 2004