

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
SHORT-TERM

Permit Number 1078

Attachment A.1

These attachments (A.1 and A.2) list 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) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 8-1                    | Tank 8-1           | VOC                     | 58.04   |
| ST 10-1                   | Tank 10-1          | VOC                     | 58.04   |
| ST 10-2                   | Tank 10-2          | VOC                     | 58.04   |
| ST 12-1                   | Tank 12-1          | VOC                     | 58.04   |
| ST 12-2                   | Tank 12-2          | VOC                     | 58.04   |
| ST 12-3                   | Tank 12-3          | VOC                     | 58.04   |
| ST 12-4                   | Tank 12-4          | VOC                     | 58.04   |
| ST 12-5                   | Tank 12-5          | VOC                     | 58.04   |
| ST 12-6                   | Tank 12-6          | VOC                     | 58.04   |
| ST 12-7                   | Tank 12-7          | VOC                     | 58.04   |
| ST 12-8                   | Tank 12-8          | VOC                     | 58.04   |
| ST 12-9                   | Tank 12-9          | VOC                     | 58.04   |
| ST 12-10                  | Tank 12-10         | VOC                     | 58.04   |
| ST 12-11                  | Tank 12-11         | VOC                     | 58.04   |
| ST 12-12                  | Tank 12-12         | VOC                     | 58.04   |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 12-13                  | Tank 12-13         | VOC                     | 58.04   |
| ST 12-14                  | Tank 12-14         | VOC                     | 58.04   |
| ST 12-15                  | Tank 12-15         | VOC                     | 58.04   |
| ST 12-16                  | Tank 12-16         | VOC                     | 58.04   |
| ST 12-17                  | Tank 12-17         | VOC                     | 58.04   |
| ST 12-18                  | Tank 12-18         | VOC                     | 58.04   |
| ST 12-19                  | Tank 12-19         | VOC                     | 58.04   |
| ST 12-20                  | Tank 12-20         | VOC                     | 58.04   |
| ST 12-21                  | Tank 12-21         | VOC                     | 58.04   |
| ST 12-22                  | Tank 12-22         | VOC                     | 58.04   |
| ST 12-23                  | Tank 12-23         | VOC                     | 58.04   |
| ST 12-24                  | Tank 12-24         | VOC                     | 58.04   |
| ST 12-25                  | Tank 12-25         | VOC                     | 58.04   |
| ST 12-26                  | Tank 12-26         | VOC                     | 100.11  |
| ST 12-27                  | Tank 12-27         | VOC                     | 58.04   |
| ST 12-28                  | Tank 12-28         | VOC                     | 58.04   |
| ST 12-29                  | Tank 12-29         | VOC                     | 58.04   |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 12-30                  | Tank 12-30         | VOC                     | 58.04   |
| ST 12-31                  | Tank 12-31         | VOC                     | 58.04   |
| ST 12-32                  | Tank 12-32         | VOC                     | 58.04   |
| ST 12-33                  | Tank 12-33         | VOC                     | 58.04   |
| ST 12-34                  | Tank 12-34         | VOC                     | 58.04   |
| ST 12-35                  | Tank 12-35         | VOC                     | 58.04   |
| ST 12-36                  | Tank 12-36         | VOC                     | 58.04   |
| ST 12-37                  | Tank 12-37         | VOC                     | 58.04   |
| ST 12-38                  | Tank 12-38         | VOC                     | 58.04   |
| ST 12-39                  | Tank 12-39         | VOC                     | 58.04   |
| ST 12-40                  | Tank 12-40         | VOC                     | 58.04   |
| ST 12-41                  | Tank 12-41         | VOC                     | 58.04   |
| ST 12-42                  | Tank 12-42         | VOC                     | 58.04   |
| ST 12-43                  | Tank 12-43         | VOC                     | 58.04   |
| ST 12-44                  | Tank 12-44         | VOC                     | 58.04   |
| ST 12-45                  | Tank 12-45         | VOC                     | 58.04   |
| ST 12-46                  | Tank 12-46         | VOC                     | 58.04   |
| ST 12-47                  | Tank 12-47         | VOC                     | 58.04   |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 12-48                  | Tank 12-48         | VOC                     | 58.04   |
| ST 12-49                  | Tank 12-49         | VOC                     | 58.04   |
| ST 12-50                  | Tank 12-50         | VOC                     | 58.04   |
| ST 12-51                  | Tank 12-51         | VOC                     | 58.04   |
| ST 15-1                   | Tank 15-1          | VOC                     | 58.04   |
| ST 15-2                   | Tank 15-2          | VOC                     | 58.04   |
| ST 15-3                   | Tank 15-3          | VOC                     | 58.04   |
| ST 15-4                   | Tank 15-4          | VOC                     | 58.04   |
| ST 15-5                   | Tank 15-5          | VOC                     | 58.04   |
| ST 15-6                   | Tank 15-6          | VOC                     | 58.04   |
| ST 15-7                   | Tank 15-7          | VOC                     | 58.04   |
| ST 25-5                   | Tank 25-5          | VOC                     | 116.08  |
| ST 25-6                   | Tank 25-6          | VOC                     | 116.08  |
| ST 30-1                   | Tank 30-1          | VOC                     | 116.08  |
| ST 30-2                   | Tank 30-2          | VOC                     | 116.08  |
| ST 30-3                   | Tank 30-3          | VOC                     | 116.08  |
| ST 30-4                   | Tank 30-4          | VOC                     | 116.08  |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 30-5                   | Tank 30-5          | VOC                     | 116.08  |
| ST 30-6                   | Tank 30-6          | VOC                     | 116.08  |
| ST 30-7                   | Tank 30-7          | VOC                     | 116.08  |
| ST 30-8                   | Tank 30-8          | VOC                     | 116.08  |
| ST 30-9                   | Tank 30-9          | VOC                     | 116.08  |
| ST 33-1                   | Tank 33-1          | VOC                     | 116.08  |
| ST 33-2                   | Tank 33-2          | VOC                     | 116.08  |
| ST 35-4                   | Tank 35-4          | VOC                     | 116.08  |
| ST 35-5                   | Tank 35-5          | VOC                     | 116.08  |
| ST 35-6                   | Tank 35-6          | VOC                     | 116.08  |
| ST 35-7                   | Tank 35-7          | VOC                     | 116.08  |
| ST 35-8                   | Tank 35-8          | VOC                     | 116.08  |
| ST 35-9                   | Tank 35-9          | VOC                     | 116.08  |
| ST 35-10                  | Tank 35-10         | VOC                     | 116.08  |
| ST 35-11                  | Tank 35-11         | VOC                     | 116.08  |
| ST 35-12                  | Tank 35-12         | VOC                     | 116.08  |
| ST 35-13                  | Tank 35-13         | VOC                     | 116.08  |
| ST 35-14                  | Tank 35-14         | VOC                     | 116.08  |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 35-15                  | Tank 35-15         | VOC                     | 116.08  |
| ST 35-16                  | Tank 35-16         | VOC                     | 116.08  |
| ST 35-17                  | Tank 35-17         | VOC                     | 116.08  |
| ST 35-18                  | Tank 35-18         | VOC                     | 116.08  |
| ST 35-19                  | Tank 35-19         | VOC                     | 116.08  |
| ST 35-20                  | Tank 35-20         | VOC                     | 116.08  |
| ST 35-21                  | Tank 35-21         | VOC                     | 116.08  |
| ST 35-22                  | Tank 35-22         | VOC                     | 116.08  |
| ST 35-23                  | Tank 35-23         | VOC                     | 116.08  |
| ST 35-24                  | Tank 35-24         | VOC                     | 116.08  |
| ST 36-1                   | Tank 36-1          | VOC                     | 116.08  |
| ST 36-2                   | Tank 36-2          | VOC                     | 116.08  |
| ST 36-3                   | Tank 36-3          | VOC                     | 116.08  |
| ST 36-4                   | Tank 36-4          | VOC                     | 116.08  |
| ST 36-5                   | Tank 36-5          | VOC                     | 116.08  |
| ST 50-1                   | Tank 50-1          | VOC                     | 116.08  |
| ST 50-3                   | Tank 50-3          | VOC                     | 116.08  |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 60-1                   | Tank 60-1          | VOC                     | 116.08  |
| ST 60-4                   | Tank 60-4          | VOC                     | 116.08  |
| ST 80-1                   | Tank 80-1          | VOC                     | 162.51  |
| ST 80-2                   | Tank 80-2          | VOC                     | 162.51  |
| ST 80-3                   | Tank 80-3          | VOC                     | 162.51  |
| ST 80-4                   | Tank 80-4          | VOC                     | 162.51  |
| ST 80-5                   | Tank 80-5          | VOC                     | 162.51  |
| ST 80-6                   | Tank 80-6          | VOC                     | 162.51  |
| ST 80-7                   | Tank 80-7          | VOC                     | 162.51  |
| ST 80-8                   | Tank 80-8          | VOC                     | 162.51  |
| ST 80-9                   | Tank 80-9          | VOC                     | 162.51  |
| ST 80-10                  | Tank 80-10         | VOC                     | 162.51  |
| ST 80-11                  | Tank 80-11         | VOC                     | 162.51  |
| ST 80-12                  | Tank 80-12         | VOC                     | 162.51  |
| ST 80-13                  | Tank 80-13         | VOC                     | 162.51  |
| ST 80-14                  | Tank 80-14         | VOC                     | 162.51  |
| ST 80-15                  | Tank 80-15         | VOC                     | 162.51  |
| ST 80-16                  | Tank 80-16         | VOC                     | 162.51  |

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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 80-17                  | Tank 80-17         | VOC                     | 162.51  |
| ST 80-18                  | Tank 80-18         | VOC                     | 162.51  |
| ST 80-19                  | Tank 80-19         | VOC                     | 162.51  |
| ST 80-20                  | Tank 80-20         | VOC                     | 162.51  |
| ST 80-21                  | Tank 80-21         | VOC                     | 162.51  |
| ST 80-22                  | Tank 80-22         | VOC                     | 162.51  |
| ST 80-23                  | Tank 80-23         | VOC                     | 162.51  |
| ST 80-24                  | Tank 80-24         | VOC                     | 162.51  |
| ST 80-25                  | Tank 80-25         | VOC                     | 162.51  |
| ST 80-26                  | Tank 80-26         | VOC                     | 162.51  |
| ST 80-27                  | Tank 80-27         | VOC                     | 162.51  |
| ST 80-28                  | Tank 80-28         | VOC                     | 162.51  |
| ST 80-29                  | Tank 80-29         | VOC                     | 162.51  |
| ST 80-30                  | Tank 80-30         | VOC                     | 162.51  |
| ST 80-31                  | Tank 80-31         | VOC                     | 162.51  |
| ST 80-32                  | Tank 80-32         | VOC                     | 162.51  |
| ST 80-33                  | Tank 80-33         | VOC                     | 162.51  |



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| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 100-1                  | Tank 100-1         | VOC                     | 232.15  |
| ST 100-2                  | Tank 100-2         | VOC                     | 232.15  |
| ST 100-3                  | Tank 100-3         | VOC                     | 232.15  |
| ST 100-4                  | Tank 100-4         | VOC                     | 232.15  |
| ST 100-5                  | Tank 100-5         | VOC                     | 232.15  |
| ST 100-6                  | Tank 100-6         | VOC                     | 232.15  |
| ST 100-7                  | Tank 100-7         | VOC                     | 232.15  |
| ST 100-8                  | Tank 100-8         | VOC                     | 232.15  |
| ST 100-9                  | Tank 100-9         | VOC                     | 232.15  |
| ST 100-10                 | Tank 100-10        | VOC                     | 232.15  |
| ST 100-11                 | Tank 100-11        | VOC                     | 232.15  |
| ST 100-12                 | Tank 100-12        | VOC                     | 232.15  |
| ST 100-13                 | Tank 100-13        | VOC                     | 232.15  |
| ST 100-14                 | Tank 100-14        | VOC                     | 232.15  |
| ST 100-15                 | Tank 100-15        | VOC                     | 232.15  |
| ST 100-16                 | Tank 100-16        | VOC                     | 232.15  |
| ST 100-17                 | Tank 100-17        | VOC                     | 232.15  |
| ST 100-18                 | Tank 100-18        | VOC                     | 232.15  |

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AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 100-19                 | Tank 100-19        | VOC                     | 232.15  |
| ST 100-20                 | Tank 100-20        | VOC                     | 232.15  |
| ST 100-21                 | Tank 100-21        | VOC                     | 232.15  |
| ST 100-22                 | Tank 100-22        | VOC                     | 232.15  |
| ST 100-23                 | Tank 100-23        | VOC                     | 232.15  |
| ST 100-24                 | Tank 100-24        | VOC                     | 232.15  |
| ST 100-25                 | Tank 100-25        | VOC                     | 232.15  |
| ST 100-26                 | Tank 100-26        | VOC                     | 232.15  |
| ST 100-27                 | Tank 100-27        | VOC                     | 232.15  |
| ST 100-28                 | Tank 100-28        | VOC                     | 232.15  |
| ST 100-29                 | Tank 100-29        | VOC                     | 232.15  |
| ST 100-30                 | Tank 100-30        | VOC                     | 232.15  |
| ST 100-31                 | Tank 100-31        | VOC                     | 232.15  |
| ST 100-32                 | Tank 100-32        | VOC                     | 232.15  |
| ST 100-33                 | Tank 100-33        | VOC                     | 232.15  |
| ST 100-34                 | Tank 100-34        | VOC                     | 232.15  |
| ST 100-35                 | Tank 100-35        | VOC                     | 232.15  |

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AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| ST 100-36                 | Tank 100-36        | VOC                     | 232.15  |
| ST 100-37                 | Tank 100-37        | VOC                     | 232.15  |
| ST 100-38                 | Tank 100-38        | VOC                     | 232.15  |
| ST 100-39                 | Tank 100-39        | VOC                     | 232.15  |
| ST 100-40                 | Tank 100-40        | VOC                     | 232.15  |
| ST 100-41                 | Tank 100-41        | VOC                     | 232.15  |
| ST 100-42                 | Tank 100-42        | VOC                     | 232.15  |
| ST 100-43                 | Tank 100-43        | VOC                     | 232.15  |
| ST 100-44                 | Tank 100-44        | VOC                     | 232.15  |
| ST 100-45                 | Tank 100-45        | VOC                     | 232.15  |
| ST 100-46                 | Tank 100-46        | VOC                     | 232.15  |
| ST 100-47                 | Tank 100-47        | VOC                     | 232.15  |
| ST 100-48                 | Tank 100-48        | VOC                     | 232.15  |
| ST 100-49                 | Tank 100-49        | VOC                     | 232.15  |
| ST 100-50                 | Tank 100-50        | VOC                     | 232.15  |
| ST 100-51                 | Tank 100-51        | VOC                     | 232.15  |
| ST 100-52                 | Tank 100-52        | VOC                     | 232.15  |
| ST 100-53                 | Tank 100-53        | VOC                     | 232.15  |

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| Emission<br>Point No. (1) | Source<br>Name (2)   | Contaminant<br>Name (3)        | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--|--------------------------------|---|
| ST 100-54                 | Tank 100-54  | VOC                            | 232.15  |
| ST 100-55                 | Tank 100-55  | VOC                            | 232.15  |
| ST 100-56                 | Tank 100-56  | VOC                            | 232.15  |
| ST 100-57                 | Tank 100-57  | VOC                            | 232.15  |
| ST 100-58                 | Tank 100-58  | VOC                            | 232.15  |
| ST 100-59                 | Tank 100-59  | VOC                            | 232.15  |
| ST 160-1                  | Tank 160-1   | VOC                            | 232.15  |
| ST 160-2                  | Tank 160-2   | VOC                            | 232.15  |
| ST 160-3                  | Tank 160-3   | VOC                            | 232.15  |
| ST 160-4                  | Tank 160-4   | VOC                            | 232.15  |
| ST 160-5                  | Tank 160-5   | VOC                            | 232.15  |
| ST 160-6                  | Tank 160-6   | VOC                            | 232.15  |
| HOSEARND                  | Marine Dock Hose<br>Clearings                                | VOC                            | 1.57  |
| IFRCD                     | IFR Tank Landed Refill<br>Control Device<br>(Flare, ICE, TO) | VOC                            | 19.59   |
|                           |  | NO <sub>x</sub>                | 4.49  |
|                           |  | CO                             | 8.96  |
| TRK-A1                    | Track A1<br>(14 Car Spots)                                   | VOC<br>*(37.82 lb/hr/car spot) | 37.82*  |

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| Emission<br>Point No. (1) | Source<br>Name (2)         | Contaminant<br>Name (3)        | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|----------------------------|--------------------------------|---|
| TRK-A2                    | Track A2<br>(14 Car Spots) | VOC<br>*(37.82 lb/hr/car spot) | 37.82*  |
| TRK-B1                    | Track B1<br>(14 Car Spots) | VOC<br>(37.82 lb/hr/car spot)  | 37.82*  |
| TRK-B2                    | Track B2<br>(14 Car Spots) | VOC<br>*(37.82 lb/hr/car spot) | 37.82*  |
| TRK-B3                    | Track B3<br>(10 Car Spots) | VOC                            | CD  |
| TRK-C1                    | Track C1<br>(5 Car Spots)  | VOC                            | CD  |
| TRK-C2                    | Track C2<br>(5 Car Spots)  | VOC                            | CD  |
| TRK-D                     | Track D<br>(9 Car Spots)   | VOC<br>*(37.82 lb/hr/car spot) | 37.82*  |
| TRK-E                     | Track E<br>(9 Car Spots)   | VOC<br>*(37.82 lb/hr/car spot) | 37.82*  |
| TRK-F1                    | Track F1<br>(6 Car Spots)  | VOC                            | CD  |
| TRK-F2                    | Track F2<br>(6 Car Spots)  | VOC                            | CD  |
| TRK-F3                    | Track F3<br>(2 Car Spots)  | VOC                            | CD  |
| TRK-G1                    | Track G1                   | VOC                            | 37.82*  |

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|                        |  |                                  | AIR CONTAMINANTS DATA**                   |
|------------------------|--|----------------------------------|---|
| Emission Point No. (1) | Source Name (2)                          | Contaminant Name (3)             | Short-Term Emission Rates Pounds per Hour |
|                        | (10 Car Spots)                           | *(37.82 lb/hr/car spot)          |   |
| TRK-G2                 | Track G2<br>(10 Car Spots)               | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-G3                 | Track G3<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-G4                 | Track G4<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-H1                 | Track H1<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-H2                 | Track H2<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-I5                 | Track I5<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| TRK-J1                 | Track J1<br>(8 Car Spots)                | VOC<br>*(37.82 lb/hr/car spot)   | 37.82*                                    |
| LUB RACK               | Lubrizol R-Rack<br>(1 Truck Spot)        | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*                                    |
| 1ST 12s TR RACK        | First 12s Truck Rack<br>(9 Truck Spots)  | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*                                    |
| 2ND 12s TR RACK        | Second 12s Truck Rack<br>(8 Truck Spots) | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*                                    |
| 1ST 80s TR RACK        | First 80s Truck Rack<br>(13 Truck Spots) | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*                                    |

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| Emission<br>Point No. (1) | Source<br>Name (2)               | Contaminant<br>Name (3)          | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|----------------------------------|----------------------------------|---|
| C-TR RACK                 | C-Truck Rack<br>(4 Truck Spots)  | VOC                              | CD  |
| F-TR RACK                 | F-Truck Rack<br>(2 Truck Spots)  | VOC                              | CD  |
| TR RACK G                 | Truck Rack G<br>(13 Truck Spots) | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*  |
| TR RACK H                 | Truck Rack H<br>(4 Truck Spots)  | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*  |
| TR RACK I1                | Truck Rack I1<br>(8 Truck Spots) | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*  |
| TR RACK J                 | Truck Rack J<br>(8 Truck Spots)  | VOC<br>*(37.82 lb/hr/truck spot) | 37.82*  |
| BGDK-1                    | Barge Dock No. 1                 | VOC                              | 94.5  |
| BGDK-2                    | Barge Dock No. 2                 | VOC                              | 94.5  |
| BGDK-3                    | Barge Dock No. 3                 | VOC                              | 94.5  |
| BGDK-4                    | Barge Dock No. 4                 | VOC                              | 94.5  |
| BGDK-5                    | Barge Dock No. 5A                | VOC                              | 94.5  |
| BGDK-5A                   | Barge Dock No. 5                 | VOC                              | 94.5  |
| BGDK-6                    | Barge Dock No. 6                 | VOC                              | 94.5  |
| BGDK-7                    | Barge Dock No. 7                 | VOC                              | 94.5  |
| BGDK-8                    | Barge Dock No. 8                 | VOC                              | 94.5  |

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SHORT-TERM

AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2)                                       | Contaminant<br>Name (3)                 | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--|---|---|
| BGDK-9                    | Barge Dock No. 9   | VOC                                     | 94.5  |
| BGDK-10                   | Barge Dock No. 10  | VOC                                     | 94.5  |
| BGDK-11                   | Barge Dock No. 11  | VOC                                     | CD  |
| BGDK-12                   | Barge Dock No. 12  | VOC                                     | CD  |
| BGDK-BKR                  | Bunker Fuel Dock   | VOC                                     | 94.5  |
| SHPDK-1                   | Ship Dock No. 1  | VOC                                     | 113.5   |
| SHPDK-2                   | Ship Dock No. 2  | VOC                                     | 113.5   |
| SHPDK-3                   | Ship Dock No. 3  | VOC                                     | 113.5   |
| SHPDK-7                   | Ship Dock No. 7  | VOC                                     | 113.5   |
| SHPDK-8                   | Ship Dock No. 8  | VOC                                     | 113.5   |
| FL-12s                    | 12s Truck and<br>Railcar Loading and<br>Depressurization | VOC<br>CO<br>NO <sub>x</sub><br>HCl/HBr | 31.1<br>20.3<br>2.37<br>12.72                   |
| FL-35-12                  | Tank 35-12 Dedicated Flare                               | 1-Butene<br>CO<br>NO <sub>x</sub>       | 4.71<br>1.22<br>0.61                            |
| FL-105-1                  | Tank 105-1 Flare   | VOC<br>CO<br>NO <sub>x</sub>            | 100.00<br>92.45<br>12.80                        |



EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
SHORT-TERM

AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2)  | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|---|-------------------------|---|
| FL-105-2                  | Tank 105-2 Flare  | VOC                     | 100.00  |
|                           |   | CO                      | 92.45   |
|                           |   | NO <sub>x</sub>         | 12.80   |
| FL-105-3                  | Tank 105-3 Flare  | VOC                     | 100.00  |
|                           |   | CO                      | 92.45   |
|                           |   | NO <sub>x</sub>         | 12.80   |
| FL-SPR                    | 700 Bullets, Spheres<br>Tanks, TR and RC<br>and Marine LPG Loading<br>and Unloading, Loading<br>Hose Clearing | VOC                     | 200.00  |
|                           |   | CO                      | 184.90  |
|                           |   | NO <sub>x</sub>         | 25.60   |
| FL-50-2                   | Tank 50-2 Flare   | VOC                     | 32.00   |
|                           |   | CO                      | 16.80   |
|                           |   | NO <sub>x</sub>         | 1.96  |
| FL-80s                    | 80s Truck and<br>Railcar Loading and<br>Depressurization  | VOC                     | 31.10   |
|                           |   | CO                      | 20.30   |
|                           |   | NO <sub>x</sub>         | 2.37  |
|                           |   | HCl/HBr                 | 12.72   |
| FL-3                      | Marine Loading  | VOC                     | 185.4   |
|                           |   | CO                      | 63.7  |
|                           |   | NO <sub>x</sub>         | 7.43  |
|                           |   | HCl                     | 14.77   |
|                           |   | HBr                     | 16.5  |
| FL-5A                     | Marine Loading  | VOC                     | 185.4   |
|                           |   | CO                      | 63.7  |
|                           |   | NO <sub>x</sub>         | 7.43  |
|                           |   | HCl                     | 14.77   |
|                           |   | HBr                     | 16.5  |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
SHORT-TERM

AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2) | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--------------------|-------------------------|---|
| FL-5B                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |
| FL-5C                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |
| FL-5D                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |
| FL-5E                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |
| FL-5F                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |
| FL-5G                     | Marine Loading     | VOC                     | 185.4   |
|                           |                    | CO                      | 63.7  |
|                           |                    | NO <sub>x</sub>         | 7.43  |
|                           |                    | HCl                     | 14.77   |
|                           |                    | HBr                     | 16.5  |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
SHORT-TERM

AIR CONTAMINANTS DATA\*\*

| Emission<br>Point No. (1) | Source<br>Name (2)                     | Contaminant<br>Name (3) | Short-Term<br>Emission Rates<br>Pounds per Hour |
|---------------------------|--|-------------------------|---|
| FL-H                      | Land Loading Flare<br>H Track and Rack | VOC                     | 31.1  |
|                           |  | CO                      | 20.3  |
|                           |  | NO <sub>x</sub>         | 2.37  |
| FL-I                      | Land Loading Flare<br>I Track and Rack | VOC                     | 31.1  |
|                           |  | CO                      | 20.3  |
|                           |  | NO <sub>x</sub>         | 2.37  |
| FL-J                      | Land Loading Flare<br>J Track and Rack | VOC                     | 31.1  |
|                           |  | CO                      | 20.3  |
|                           |  | NO <sub>x</sub>         | 2.37  |
| 1                         | Air Stripper AS-1                      | VOC                     | 0.017   |
| FUG 160s TKFM             | Fugitive Emissions (5)                 | VOC                     | 0.41  |
| FUG 100s TKFM             | Fugitive Emissions (5)                 | VOC                     | 2.10  |
| FUG Marine Docks          | Fugitive Emissions (5)                 | VOC                     | 5.24  |
| FUG 12s TKFM              | Fugitive Emissions (5)                 | VOC                     | 4.24  |
| FUG S-LPG                 | Fugitive Emissions (5)                 | VOC                     | 0.46  |
| FUG N-LPG                 | Fugitive Emissions (5)                 | VOC                     | 0.88  |
| FUG S 80s                 | Fugitive Emissions (5)                 | VOC                     | 1.29  |
| FUG 36s TKFM              | Fugitive Emissions (5)                 | VOC                     | 0.29  |
| FUG N 80s                 | Fugitive Emissions (5)                 | VOC                     | 1.60  |
| FUG GO TKFM               | Fugitive Emissions (5)                 | VOC                     | 0.75  |
| FUG DTMs                  | Fugitive Emissions (5)                 | VOC                     | 2.11  |

- (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  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
HCl - hydrochloric acid  
HBr - hydrobromic acid
- (4) The H1, H2, H3, and H4 Spots 1 to 3, (12 spots total) are limited to loading a maximum of two spots at any one time with same chemical at the maximum chemical loading rate stated in the permit attachments. The 12 spots are also restricted from loading chemicals with a short-term ESL < 2 µg/m<sup>3</sup>.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

CD = Control Device

Dated November 19, 2008

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
ANNUAL

AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2) | Air Contaminant<br>Name (3) | Annual<br>Emission Rates<br>Tons per Year** |
|---------------------------|--------------------|-----------------------------|---|
|---------------------------|--------------------|-----------------------------|---|

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ANNUAL

Permit Number 1078

Attachment A.2

AIR CONTAMINANTS DATA

| Emission<br>Point No. (1)  | Source<br>Name (2)  | Air Contaminant<br>Name (3) | Annual<br>Emission Rates<br>Tons per Year** |
|--|---|-----------------------------|---|
| 8-1 through 160-6  | Storage Tanks (4)   | VOC                         | 159.2                                       |
| HOSEARND   | Marine Dock Hose<br>Clearings                             | VOC                         | 0.22  |
| IFRCD  | IFR Tank Landed Refill<br>Control Device (Flare, ICE, TO) | VOC                         | 4.68  |
|  |   | NO <sub>x</sub>             | 1.84  |
|  |   | CO                          | 3.67  |
| TRK A through J<br>and LUB RACK  | Truck and Rail Loading<br>All Spots (no controls)         | VOC                         | 3.3   |
| BGDK-1 through 11<br>and BGDK-BKR<br>SHPDK-1, 2, 3,<br>7, and 8                              | Barge and Ship Loading<br>All Docks (no controls)         | VOC                         | 5.7   |
| FL-12s, FL-50-2,<br>FL-80s, FL-SPR,<br>FL-105-1, 2, 3,<br>and FL-35-12, FL-H,<br>FL-I, FL-J, | Flares - Land Loading and<br>Controlled Storage Tanks     | VOC                         | 52.42                                       |
|  |   | CO                          | 117.65                                      |
|  | Flares - Marine Loading                                   | NO <sub>x</sub>             | 14.23                                       |
|  |   | HCl                         | 2.33  |
|  |   | HBr                         | 4.0   |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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| AIR CONTAMINANTS DATA  |                        |                          |                                       |
|------------------------|------------------------|--------------------------|---------------------------------------|
| Emission Point No. (1) | Source Name (2)        | Air Contaminant Name (3) | Annual Emission Rates Tons per Year** |
| FL-3, 5A through 5G    |                        |                          |                                       |
| AS-1                   | Air Stripper AS-1      | VOC                      | 0.073                                 |
| FUG 160s TKFM          | Fugitive Emissions (5) | VOC                      | 1.80                                  |
| FUG 100s TKFM          | Fugitive Emissions (5) | VOC                      | 9.22                                  |
| FUG Marine Docks       | Fugitive Emissions (5) | VOC                      | 22.93                                 |
| FUG 12s TKFM           | Fugitive Emissions (5) | VOC                      | 18.57                                 |
| FUG S-LPG              | Fugitive Emissions (5) | VOC                      | 2.01                                  |
| FUG N-LPG              | Fugitive Emissions (5) | VOC                      | 3.87                                  |
| FUG S 80s              | Fugitive Emissions (5) | VOC                      | 5.66                                  |
| FUG 36s TKFM           | Fugitive Emissions (5) | VOC                      | 1.27                                  |
| FUG N 80s              | Fugitive Emissions (5) | VOC                      | 7.00                                  |
| FUG GO TKFM            | Fugitive Emissions (5) | VOC                      | 3.27                                  |
| FUG DTMs               | Fugitive Emissions (5) | VOC                      | 9.24                                  |
| FUG-M                  | Fugitive Emissions (6) | VOC                      | N/A                                   |

- (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  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
HCl - hydrochloric acid  
HBr - hydrobromic acid
- (4) Annual allowable emission rate includes 38.7 TPY attributable to tank roof landing operations
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) FUG-M accounts for piping components subject to 30 TAC § 115.214(a)(3)(F) within each area.

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AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2) | Air Contaminant<br>Name (3) | Annual<br>Emission Rates<br>Tons per Year** |
|---------------------------|--------------------|-----------------------------|---|
|---------------------------|--------------------|-----------------------------|---|

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.

Dated November 19, 2008