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## APPENDIX B

### Air Emissions and Greenhouse Gas Emissions Model

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Road Construction Emissions Model, Version 9.0.0

| Daily Emission Estimates for -> Merced Biogas Pipeline Project |               |              |               |                      |                        |                              |                       |                         |                               |               |               |               |               |                |
|--|---------------|--------------|---------------|----------------------|------------------------|------------------------------|-----------------------|-------------------------|-------------------------------|---------------|---------------|---------------|---------------|----------------|
| Project Phases (Pounds)  | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (lbs/day) | Exhaust PM10 (lbs/day) | Fugitive Dust PM10 (lbs/day) | Total PM2.5 (lbs/day) | Exhaust PM2.5 (lbs/day) | Fugitive Dust PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) |
| Grubbing/Land Clearing   | 5.56          | 34.66        | 38.45         | 6.59                 | 1.59                   | 5.00                         | 2.55                  | 1.51                    | 1.04                          | 0.08          | 6,395.03      | 0.99          | 0.09          | 6,446.03       |
| Grading/Excavation   | 9.18          | 64.59        | 78.35         | 8.17                 | 3.17                   | 5.00                         | 4.00                  | 2.96                    | 1.04                          | 0.15          | 12,928.81     | 3.10          | 0.15          | 13,050.23      |
| Drainage/Utilities/Sub-Grade                                   | 7.72          | 55.01        | 59.89         | 7.53                 | 2.53                   | 5.00                         | 3.44                  | 2.40                    | 1.04                          | 0.12          | 10,554.39     | 1.89          | 0.12          | 10,638.33      |
| Paving   | 5.88          | 41.70        | 41.20         | 1.85                 | 1.85                   | 0.00                         | 1.74                  | 1.74                    | 0.00                          | 0.09          | 6,897.62      | 1.15          | 0.09          | 6,954.02       |
| Maximum (pounds/day)   | 9.18          | 64.59        | 78.35         | 8.17                 | 3.17                   | 5.00                         | 4.00                  | 2.96                    | 1.04                          | 0.15          | 12,928.81     | 3.10          | 0.15          | 13,050.23      |
| Total (tons/construction project)                              | 0.78          | 5.47         | 6.26          | 0.68                 | 0.26                   | 0.42                         | 0.33                  | 0.24                    | 0.09                          | 0.01          | 1,055.18      | 0.22          | 0.01          | 1,064.43       |

Notes:  
 Project Start Year -> 2022  
 Project Length (months) -> 9  
 Total Project Area (acres) -> 19  
 Maximum Area Disturbed/Day (acres) -> 1  
 Water Truck Used? -> Yes

| Phase                        | Total Material Imported/Exported Volume (yd <sup>3</sup> /day) |         | Daily VMT (miles/day) |                 |                |             |
|------------------------------|--|---------|-----------------------|-----------------|----------------|-------------|
|                              | Soil   | Asphalt | Soil Hauling          | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing       | 0  | 0       | 0                     | 0               | 800            | 40          |
| Grading/Excavation           | 0  | 0       | 0                     | 0               | 800            | 40          |
| Drainage/Utilities/Sub-Grade | 0  | 0       | 0                     | 0               | 800            | 40          |
| Paving                       | 0  | 0       | 0                     | 0               | 800            | 40          |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

| Total Emission Estimates by Phase for -> Merced Biogas Pipeline Project |                  |                 |                  |                         |                           |                                 |                          |                            |                                  |                  |                  |                  |                  |                 |
|---|------------------|-----------------|------------------|-------------------------|---------------------------|---------------------------------|--------------------------|----------------------------|----------------------------------|------------------|------------------|------------------|------------------|-----------------|
| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)       | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | Total PM10 (tons/phase) | Exhaust PM10 (tons/phase) | Fugitive Dust PM10 (tons/phase) | Total PM2.5 (tons/phase) | Exhaust PM2.5 (tons/phase) | Fugitive Dust PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) |
| Grubbing/Land Clearing  | 0.06             | 0.34            | 0.38             | 0.07                    | 0.02                      | 0.05                            | 0.03                     | 0.01                       | 0.01                             | 0.00             | 63.31            | 0.01             | 0.00             | 57.89           |
| Grading/Excavation  | 0.41             | 2.88            | 3.49             | 0.36                    | 0.14                      | 0.22                            | 0.18                     | 0.13                       | 0.05                             | 0.01             | 575.98           | 0.14             | 0.01             | 527.43          |
| Drainage/Utilities/Sub-Grade  | 0.23             | 1.63            | 1.78             | 0.22                    | 0.08                      | 0.15                            | 0.10                     | 0.07                       | 0.03                             | 0.00             | 313.47           | 0.06             | 0.00             | 286.64          |
| Paving  | 0.09             | 0.62            | 0.61             | 0.03                    | 0.03                      | 0.00                            | 0.03                     | 0.03                       | 0.00                             | 0.00             | 102.43           | 0.02             | 0.00             | 93.68           |
| Maximum (tons/phase)  | 0.41             | 2.88            | 3.49             | 0.36                    | 0.14                      | 0.22                            | 0.18                     | 0.13                       | 0.05                             | 0.01             | 575.98           | 0.14             | 0.01             | 527.43          |
| Total (tons/construction project)                                       | 0.78             | 5.47            | 6.26             | 0.68                    | 0.26                      | 0.42                            | 0.33                     | 0.24                       | 0.09                             | 0.01             | 1055.18          | 0.22             | 0.01             | 965.64          |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

**Road Construction Emissions Model**  
**Data Entry Worksheet**

Note: Required data input sections have a yellow background.  
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.  
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.  
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

**Input Type**

Project Name  

|                                |  |
|--------------------------------|--|
| Merced Biogas Pipeline Project |  |
|--------------------------------|--|

Construction Start Year  

|      |  |
|------|--|
| 2022 |  |
|------|--|

Project Type  

|   |  |
|---|--|
| 2 |  |
|---|--|

Project Construction Time  

|      |        |
|------|--------|
| 9.00 | months |
|------|--------|

Working Days per Month  

|       |                             |
|-------|-----------------------------|
| 22.00 | days (assume 22 if unknown) |
|-------|-----------------------------|

Predominant Soil/Site Type: Enter 1, 2, or 3  

|   |  |
|---|--|
| 2 |  |
|---|--|

(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)

Project Length  

|       |       |
|-------|-------|
| 39.50 | miles |
|-------|-------|

Total Project Area  

|       |       |
|-------|-------|
| 19.20 | acres |
|-------|-------|

Maximum Area Disturbed/Day  


|      |       |
|------|-------|
| 0.50 | acres |
|------|-------|

Water Trucks Used?  

|   |                 |
|---|-----------------|
| 1 | 1. Yes<br>2. No |
|---|-----------------|

Version 9.0.0

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.



Enter a Year between 2014 and 2040 (inclusive)

1) New Road Construction: Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway  
 2) Road Widening: Project to add a new lane to an existing roadway  
 3) Bridge/Overpass Construction: Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane  
 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction

1) Sand Gravel: Use for quaternary deposits (Delta/West County)  
 2) Weathered Rock-Earth: Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murietta)  
 3) Blasted Rock: Use for Salt Springs State or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murietta)

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

[http://www.conservation.ca.gov/ceqa/Information/bedrock\\_mapping/PhaseI.html](http://www.conservation.ca.gov/ceqa/Information/bedrock_mapping/PhaseI.html)

**Material Hauling Quantity Input**

| Material Type | Phase                        | Haul Truck Capacity (yd <sup>3</sup> ) (assume 20 if unknown) | Import Volume (yd <sup>3</sup> /day) | Export Volume (yd <sup>3</sup> /day) |
|---------------|------------------------------|---|--------------------------------------|--------------------------------------|
| Soil          | Grubbing/Land Clearing       |   |                                      |                                      |
|               | Grading/Excavation           |   |                                      |                                      |
|               | Drainage/Utilities/Sub-Grade |   |                                      |                                      |
|               | Paving                       |   |                                      |                                      |
| Asphalt       | Grubbing/Land Clearing       |   |                                      |                                      |
|               | Grading/Excavation           |   |                                      |                                      |
|               | Drainage/Utilities/Sub-Grade |   |                                      |                                      |
|               | Paving                       |   |                                      |                                      |

**Mitigation Options**

On-road Fleet Emissions Mitigation  

|  |  |
|--|--|
|  |  |
|--|--|

Off-road Equipment Emissions Mitigation  

|  |  |
|--|--|
|  |  |
|--|--|

Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer  
 Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (<http://www.airquality.org/Business/CEQA-Land-Use-Planning/Mitigation>).  
 Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that can be modified by the user, although those modifications are optional.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

| Construction Periods         | User Override of Construction Months | Program Calculated Months | User Override of Phase Starting Date | Program Default Phase Starting Date |
|------------------------------|--------------------------------------|---------------------------|--------------------------------------|-------------------------------------|
| Grubbing/Land Clearing       |                                      | 0.00                      |                                      | 1/1/22                              |
| Grading/Excavation           |                                      | 4.06                      |                                      | 1/29/22                             |
| Drainage/Utilities/Sub-Grade |                                      | 2.70                      |                                      | 6/2/22                              |
| Paving                       |                                      | 1.36                      |                                      | 8/24/22                             |
| <b>Totals (Months)</b>       |                                      | 9                         |                                      |                                     |

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

| Soil Hauling Emissions                                |  | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT |      |          |      |      |          |
|---|--|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------|----------|------|------|----------|
| <b>User Input</b>                                     |  |                                   |                                      |  |                                |                      |      |          |      |      |          |
| Miles/round trip: Grubbing/Land Clearing              |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Grading/Excavation                  |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Drainage/Utilities/Sub-Grade        |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Paving                              |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| <b>Emission Rates</b>                                 |  | ROG                               | CO                                   | NOx                                    | PM10                           | PM2.5                | SOx  | CO2      | CH4  | N2O  | CO2e     |
| Grubbing/Land Clearing (grams/mile)                   |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grading/Excavation (grams/mile)                       |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Drainage/Utilities/Sub-Grade (grams/mile)             |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Paving (grams/mile)                                   |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grubbing/Land Clearing (grams/trip)                   |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Grading/Excavation (grams/trip)                       |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Drainage/Utilities/Sub-Grade (grams/trip)             |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Paving (grams/trip)                                   |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| <b>Hauling Emissions</b>                              |  | ROG                               | CO                                   | NOx                                    | PM10                           | PM2.5                | SOx  | CO2      | CH4  | N2O  | CO2e     |
| Pounds per day - Grubbing/Land Clearing               |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Grubbing/Land Clearing       |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Grading/Excavation                   |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Grading/Excavation           |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Drainage/Utilities/Sub-Grade         |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Drainage/Utilities/Sub-Grade |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Paving                               |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Paving                       |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| <b>Total tons per construction project</b>            |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

| Asphalt Hauling Emissions                             |  | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT |      |          |      |      |          |
|---|--|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------|----------|------|------|----------|
| <b>User Input</b>                                     |  |                                   |                                      |  |                                |                      |      |          |      |      |          |
| Miles/round trip: Grubbing/Land Clearing              |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Grading/Excavation                  |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Drainage/Utilities/Sub-Grade        |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| Miles/round trip: Paving                              |  | 30.00                             |                                      |  | 0                              | 0.00                 |      |          |      |      |          |
| <b>Emission Rates</b>                                 |  | ROG                               | CO                                   | NOx                                    | PM10                           | PM2.5                | SOx  | CO2      | CH4  | N2O  | CO2e     |
| Grubbing/Land Clearing (grams/mile)                   |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grading/Excavation (grams/mile)                       |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Drainage/Utilities/Sub-Grade (grams/mile)             |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Paving (grams/mile)                                   |  | 0.04                              | 0.42                                 | 3.08                                   | 0.11                           | 0.05                 | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grubbing/Land Clearing (grams/trip)                   |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Grading/Excavation (grams/trip)                       |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Drainage/Utilities/Sub-Grade (grams/trip)             |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Paving (grams/trip)                                   |  | 0.00                              | 0.00                                 | 3.99                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| <b>Emissions</b>                                      |  | ROG                               | CO                                   | NOx                                    | PM10                           | PM2.5                | SOx  | CO2      | CH4  | N2O  | CO2e     |
| Pounds per day - Grubbing/Land Clearing               |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Grubbing/Land Clearing       |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Grading/Excavation                   |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Grading/Excavation           |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Drainage/Utilities/Sub-Grade         |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Drainage/Utilities/Sub-Grade |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Pounds per day - Paving                               |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Tons per const. Period - Paving                       |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| <b>Total tons per construction project</b>            |  | 0.00                              | 0.00                                 | 0.00                                   | 0.00                           | 0.00                 | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |

Note: Worker commute default values can be overridden in cells D121 through D126.

| Worker Commute Emissions                       |  | User Override of Worker Commute Default Values |     | Default Values |    | Calculated Daily Trips |  | Calculated Daily VMT |        |
|--|--|--|-----|----------------|----|------------------------|--|----------------------|--------|
| Miles/one-way trip                             |  |  | 20  |                |    |                        |  |                      |        |
| One-way Trips/day                              |  |  | 2   |                |    |                        |  |                      | 800.00 |
| No. of employees: Grubbing/Land Clearing       |  | 20   | 103 |                |    |                        |  |                      |        |
| No. of employees: Grading/Excavation           |  | 20   | 118 |                | 40 |                        |  |                      | 800.00 |
| No. of employees: Drainage/Utilities/Sub-Grade |  | 20   | 112 |                | 40 |                        |  |                      | 800.00 |
| No. of employees: Paving                       |  | 20   | 108 |                | 40 |                        |  |                      | 800.00 |

| Emission Rates  | ROG  | CO   | NOx  | PM10 | PM2.5 | SOx  | CO2    | CH4  | N2O  | CO2e   |
|---|------|------|------|------|-------|------|--------|------|------|--------|
| Grubbing/Land Clearing (grams/mile)                   | 0.02 | 1.00 | 0.08 | 0.05 | 0.02  | 0.00 | 328.72 | 0.00 | 0.01 | 330.99 |
| Grading/Excavation (grams/mile)                       | 0.02 | 1.00 | 0.08 | 0.05 | 0.02  | 0.00 | 328.72 | 0.00 | 0.01 | 330.99 |
| Drainage/Utilities/Sub-Grade (grams/mile)             | 0.02 | 1.00 | 0.08 | 0.05 | 0.02  | 0.00 | 328.72 | 0.00 | 0.01 | 330.99 |
| Paving (grams/mile)                                   | 0.02 | 1.00 | 0.08 | 0.05 | 0.02  | 0.00 | 328.72 | 0.00 | 0.01 | 330.99 |
| Grubbing/Land Clearing (grams/trip)                   | 1.11 | 2.85 | 0.32 | 0.00 | 0.00  | 0.00 | 70.54  | 0.08 | 0.03 | 82.43  |
| Grading/Excavation (grams/trip)                       | 1.11 | 2.85 | 0.32 | 0.00 | 0.00  | 0.00 | 70.54  | 0.08 | 0.03 | 82.43  |
| Drainage/Utilities/Sub-Grade (grams/trip)             | 1.11 | 2.85 | 0.32 | 0.00 | 0.00  | 0.00 | 70.54  | 0.08 | 0.03 | 82.43  |
| Paving (grams/trip)                                   | 1.11 | 2.85 | 0.32 | 0.00 | 0.00  | 0.00 | 70.54  | 0.08 | 0.03 | 82.43  |
| Emissions   | ROG  | CO   | NOx  | PM10 | PM2.5 | SOx  | CO2    | CH4  | N2O  | CO2e   |
| Pounds per day - Grubbing/Land Clearing               | 0.13 | 2.02 | 0.18 | 0.08 | 0.03  | 0.01 | 585.99 | 0.01 | 0.02 | 590.98 |
| Tons per const. Period - Grubbing/Land Clearing       | 0.00 | 0.02 | 0.00 | 0.00 | 0.00  | 0.00 | 5.80   | 0.00 | 0.00 | 5.85   |
| Pounds per day - Grading/Excavation                   | 0.13 | 2.02 | 0.18 | 0.08 | 0.03  | 0.01 | 585.99 | 0.01 | 0.02 | 590.98 |
| Tons per const. Period - Grading/Excavation           | 0.01 | 0.09 | 0.01 | 0.00 | 0.00  | 0.00 | 28.11  | 0.00 | 0.00 | 28.33  |
| Pounds per day - Drainage/Utilities/Sub-Grade         | 0.13 | 2.02 | 0.18 | 0.08 | 0.03  | 0.01 | 585.99 | 0.01 | 0.02 | 590.98 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.06 | 0.01 | 0.00 | 0.00  | 0.00 | 17.40  | 0.00 | 0.00 | 17.58  |
| Pounds per day - Paving                               | 0.13 | 2.02 | 0.18 | 0.08 | 0.03  | 0.01 | 585.99 | 0.01 | 0.02 | 590.98 |
| Tons per const. Period - Paving                       | 0.00 | 0.03 | 0.00 | 0.00 | 0.00  | 0.00 | 8.70   | 0.00 | 0.00 | 8.78   |
| Total tons per construction project                   | 0.01 | 0.20 | 0.02 | 0.01 | 0.00  | 0.00 | 58.01  | 0.00 | 0.00 | 58.51  |

Note: Water Truck default values can be overridden in cells D153 through D156, H153 through H156, and F153 through F156.

| Water Truck Emissions            |  | User Override of Default # Water Trucks |   | Program Estimate of Number of Water Trucks |  | User Override of Truck Round Trips/Vehicle/Day |  | Default Values Round Trips/Vehicle/Day |  | Calculated Trips/day |  | User Override of Miles/Round Trip |      | Default Values Miles/Round Trip |  | Calculated Daily VMT |       |
|----------------------------------|--|---|---|--|--|--|--|--|--|----------------------|--|-----------------------------------|------|---------------------------------|--|----------------------|-------|
| Grubbing/Land Clearing - Exhaust |  |   | 1 |  |  |  |  | 5                                      |  | 5                    |  |                                   | 8.00 |                                 |  |                      | 40.00 |
| Grading/Excavation - Exhaust     |  |   | 1 |  |  |  |  | 5                                      |  | 5                    |  |                                   | 8.00 |                                 |  |                      | 40.00 |
| Drainage/Utilities/Subgrade      |  |   | 1 |  |  |  |  | 5                                      |  | 5                    |  |                                   | 8.00 |                                 |  |                      | 40.00 |
| Paving                           |  |   | 1 |  |  |  |  | 5                                      |  | 5                    |  |                                   | 8.00 |                                 |  |                      | 40.00 |

| Emission Rates  | ROG  | CO   | NOx  | PM10 | PM2.5 | SOx  | CO2      | CH4  | N2O  | CO2e     |
|---|------|------|------|------|-------|------|----------|------|------|----------|
| Grubbing/Land Clearing (grams/mile)                   | 0.04 | 0.42 | 0.02 | 0.11 | 0.05  | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grading/Excavation (grams/mile)                       | 0.04 | 0.42 | 0.02 | 0.11 | 0.05  | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Drainage/Utilities/Sub-Grade (grams/mile)             | 0.04 | 0.42 | 0.02 | 0.11 | 0.05  | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Paving (grams/mile)                                   | 0.04 | 0.42 | 0.02 | 0.11 | 0.05  | 0.02 | 1,748.57 | 0.00 | 0.27 | 1,830.52 |
| Grubbing/Land Clearing (grams/trip)                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Grading/Excavation (grams/trip)                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Drainage/Utilities/Sub-Grade (grams/trip)             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Paving (grams/trip)                                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00     | 0.00 | 0.00 | 0.00     |
| Emissions   | ROG  | CO   | NOx  | PM10 | PM2.5 | SOx  | CO2      | CH4  | N2O  | CO2e     |
| Pounds per day - Grubbing/Land Clearing               | 0.00 | 0.04 | 0.32 | 0.01 | 0.00  | 0.00 | 154.20   | 0.00 | 0.02 | 161.42   |
| Tons per const. Period - Grubbing/Land Clearing       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 1.53     | 0.00 | 0.00 | 1.60     |
| Pounds per day - Grading/Excavation                   | 0.00 | 0.04 | 0.32 | 0.01 | 0.00  | 0.00 | 154.20   | 0.00 | 0.02 | 161.42   |
| Tons per const. Period - Grading/Excavation           | 0.00 | 0.00 | 0.01 | 0.00 | 0.00  | 0.00 | 6.87     | 0.00 | 0.00 | 7.19     |
| Pounds per day - Drainage/Utilities/Sub-Grade         | 0.00 | 0.04 | 0.32 | 0.01 | 0.00  | 0.00 | 154.20   | 0.00 | 0.02 | 161.42   |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.01 | 0.00 | 0.00  | 0.00 | 4.58     | 0.00 | 0.00 | 4.76     |
| Pounds per day - Paving                               | 0.00 | 0.04 | 0.32 | 0.01 | 0.00  | 0.00 | 154.20   | 0.00 | 0.02 | 161.42   |
| Tons per const. Period - Paving                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 2.29     | 0.00 | 0.00 | 2.40     |
| Total tons per construction project                   | 0.00 | 0.00 | 0.03 | 0.00 | 0.00  | 0.00 | 15.27    | 0.00 | 0.00 | 15.98    |

Note: Fugitive dust default values can be overridden in cells D183 through D185.

| Fugitive Dust                               | User Override of Max Area/acre/Day | Default Maximum Area/acre/Day | PM10 pounds/day | PM10 tons/period | PM2.5 pounds/day | PM2.5 tons/period |
|---|------------------------------------|-------------------------------|-----------------|------------------|------------------|-------------------|
| Fugitive Dust - Grubbing/Land Clearing      |                                    | 0.50                          | 5.00            | 0.05             | 1.04             | 0.01              |
| Fugitive Dust - Grading/Excavation          |                                    | 0.50                          | 5.00            | 0.22             | 1.04             | 0.05              |
| Fugitive Dust - Drainage/Utilities/Subgrade |                                    | 0.50                          | 5.00            | 0.15             | 1.04             | 0.03              |

| Off-Road Equipment Emissions           |                    |   |                    |   |            |            |            |            |            |            |            |            |            |
|--|--------------------|---|--------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Grubbing/Land Clearing                 | Default            | Mitigation Option   | Default            | ROG   | CO         | NOx        | PM10       | PM2.5      | SOx        | CO2        | CH4        | N2O        | CO2e       |
|  | Number of Vehicles | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier     | Type  | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
|  |                    |   | Model Default Tier | Aerial Lifts  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Air Compressors   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Bore/Drill Rigs   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Cement and Mortar Mixers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Concrete/Industrial Saws  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Cranes  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 1                  |   | Model Default Tier | Crawler Tractors  | 0.48       | 2.31       | 6.01       | 0.23       | 0.21       | 0.01       | 759.03     | 0.25       | 767.22     |
|  |                    |   | Model Default Tier | Crushing/Proc. Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 2                  |   | Model Default Tier | Excavators  | 0.40       | 6.81       | 3.55       | 0.17       | 0.16       | 0.01       | 1,000.03   | 0.32       | 1,010.81   |
|  |                    |   | Model Default Tier | Forklifts   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Generator Sets  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Graders   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Off-Highway Tractors  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Off-Highway Trucks  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Other Construction Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Other General Industrial Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Other Material Handling Equipment   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Pavers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Paving Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Plate Compactors  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Pressure Washers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Pumps   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Rollers   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Rough Terrain Forklifts   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Rubber Tired Dozers   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Rubber Tired Loaders  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Scrapers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 79                 |   | Model Default Tier | Signal Boards   | 4.53       | 23.78      | 28.39      | 1.10       | 1.10       | 0.05       | 3,895.78   | 0.40       | 3,916.89   |
|  |                    |   | Model Default Tier | Skid Steer Loaders  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Surfacing Equipment   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Sweepers/Scrubbers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Tractors/Loaders/Backhoes   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Trenchers   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    |   | Model Default Tier | Welders   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
| <b>User-Defined Off-road Equipment</b> |                    |   |                    | <i>If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab</i> |            |            |            |            |            |            |            |            |            |
|  | Number of Vehicles |   | Equipment Tier     | Type  | ROG        | CO         | NOx        | PM10       | PM2.5      | SOx        | CO2        | CH4        | CO2e       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  | 0.00               |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
|  |                    | Grubbing/Land Clearing  |                    | pounds per day  | 5.43       | 32.61      | 37.96      | 1.50       | 1.47       | 0.07       | 5,654.84   | 0.97       | 5,693.63   |
|  |                    | Grubbing/Land Clearing  |                    | tons per phase  | 0.05       | 0.32       | 0.38       | 0.01       | 0.01       | 0.00       | 55.98      | 0.01       | 56.31      |

| Grading/Excavation                     | Default  |   | Mitigation Option  |                                    | ROG  | CO    | NOx   | PM10 | PM2.5 | SOx  | CO2       | CH4  | N2O  | CO2e      |
|--|--|---|--------------------|------------------------------------|------|-------|-------|------|-------|------|-----------|------|------|-----------|
|  | Number of Vehicles   | Override of   | Default            | Default                            |      |       |       |      |       |      |           |      |      |           |
|  | Program-estimate   | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier     | Type                               |      |       |       |      |       |      |           |      |      |           |
|  |  |   | Model Default Tier | Aerial Lifts                       | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Air Compressors                    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Bore/Drill Rigs                    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Cement and Mortar Mixers           | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Concrete/Industrial Saws           | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0  |   | Model Default Tier | Cranes                             | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 1  |   | Model Default Tier | Crawler Tractors                   | 0.49 | 2.31  | 6.01  | 0.23 | 0.21  | 0.01 | 789.03    | 0.25 | 0.01 | 767.22    |
|  |  |   | Model Default Tier | Crushing/Proc. Equipment           | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 3  |   | Model Default Tier | Excavators                         | 0.61 | 9.77  | 5.33  | 0.26 | 0.24  | 0.02 | 1,500.05  | 0.48 | 0.01 | 1,516.23  |
|  |  |   | Model Default Tier | Forklifts                          | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Generator Sets                     | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 2  |   | Model Default Tier | Graders                            | 0.83 | 3.44  | 10.52 | 0.33 | 0.31  | 0.01 | 1,282.56  | 0.41 | 0.01 | 1,298.37  |
|  |  |   | Model Default Tier | Off-Highway Tractors               | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Off-Highway Trucks                 | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Other Construction Equipment       | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Other General Industrial Equipment | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Other Material Handling Equipment  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Pavers                             | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Paving Equipment                   | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Plate Compactors                   | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Pressure Washers                   | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Pumps                              | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   | 2   | Model Default Tier | Rollers                            | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Rough Terrain Forklifts            | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Rubber Tired Dozers                | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  | 1   | Model Default Tier | Rubber Tired Loaders               | 0.29 | 1.53  | 3.02  | 0.10 | 0.09  | 0.01 | 605.66    | 0.20 | 0.01 | 612.20    |
|  |  | 2   | Model Default Tier | Scrapers                           | 1.64 | 12.75 | 17.89 | 0.70 | 0.64  | 0.03 | 2,940.59  | 0.95 | 0.03 | 2,972.29  |
|  |  | 79  | Model Default Tier | Signal Boards                      | 4.53 | 23.78 | 28.39 | 1.10 | 1.10  | 0.05 | 3,655.78  | 0.40 | 0.03 | 3,615.69  |
|  |  |   | Model Default Tier | Skid Steer Loaders                 | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Surfacing Equipment                | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Sweepers/Scrubbers                 | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  | 4   | Model Default Tier | Tractor Loaders/Backhoes           | 0.66 | 8.95  | 6.70  | 0.35 | 0.33  | 0.01 | 1,204.56  | 0.39 | 0.01 | 1,217.52  |
|  |  |   | Model Default Tier | Trenchers                          | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  |   | Model Default Tier | Welders                            | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
| <b>User-Defined Off-road Equipment</b> |  |   |                    |                                    |      |       |       |      |       |      |           |      |      |           |
|  | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab |   |                    |                                    |      |       |       |      |       |      |           |      |      |           |
|  | Number of Vehicles   |   | Equipment Tier     | Type                               | ROG  | CO    | NOx   | PM10 | PM2.5 | SOx  | CO2       | CH4  | N2O  | CO2e      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  | 0.00   |   | N/A                |                                    | 0    | 0.00  | 0.00  | 0.00 | 0.00  | 0.00 | 0.00      | 0.00 | 0.00 | 0.00      |
|  |  | Grading/Excavation  |                    | pounds per day                     | 9.05 | 62.54 | 77.86 | 3.08 | 2.92  | 0.14 | 12,188.63 | 3.09 | 0.11 | 12,297.83 |
|  |  | Grading/Excavation  |                    | tons per phase                     | 0.40 | 2.75  | 3.47  | 0.14 | 0.13  | 0.01 | 543.00    | 0.14 | 0.00 | 547.85    |

| Default<br>Drainage/Utilities/Subgrade | Default   |   | Mitigation Option  |                                    | ROG         | CO         | NOx         | PM10         | PM2.5         | SOx         | CO2         | CH4         | N2O         | CO2e         |
|--|---|---|--------------------|------------------------------------|-------------|------------|-------------|--------------|---------------|-------------|-------------|-------------|-------------|--------------|
|  | Number of Vehicles  | Override of<br>Default Equipment Tier (applicable only when<br>"Tier 4 Mitigation" Option Selected) | Default            | Equipment Tier                     |             |            |             |              |               |             |             |             |             |              |
| Override of Default Number of Vehicles | Program-estimate  |   | Equipment Tier     |                                    | pounds/day  | pounds/day | pounds/day  | pounds/day   | pounds/day    | pounds/day  | pounds/day  | pounds/day  | pounds/day  | pounds/day   |
|  | 1.00  | 1   | Model Default Tier | Aerial Lifts                       | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Air Compressors                    | 0.27        | 2.42       | 1.98        | 0.11         | 0.11          | 0.00        | 375.26      | 0.02        | 0.00        | 376.73       |
|  |   |   | Model Default Tier | Bore/Drill Rigs                    | 0.22        | 2.04       | 2.27        | 0.07         | 0.07          | 0.01        | 913.56      | 0.30        | 0.01        | 923.43       |
|  |   |   | Model Default Tier | Cement and Mortar Mixers           | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Concrete/Industrial Saws           | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Cranes                             | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Crawler Tractors                   | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Crushing/Proc. Equipment           | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Excavators                         | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Forklifts                          | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 1   | Model Default Tier | Generator Sets                     | 0.33        | 3.68       | 2.93        | 0.15         | 0.15          | 0.01        | 623.04      | 0.03        | 0.00        | 625.17       |
|  |   | 1   | Model Default Tier | Graders                            | 0.41        | 1.72       | 5.26        | 0.17         | 0.15          | 0.01        | 641.28      | 0.21        | 0.01        | 648.19       |
|  |   |   | Model Default Tier | Off-Highway Tractors               | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Off-Highway Trucks                 | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Other Construction Equipment       | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Other General Industrial Equipment | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Other Material Handling Equipment  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Pavers                             | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 1   | Model Default Tier | Paving Equipment                   | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Plate Compactors                   | 0.04        | 0.21       | 0.25        | 0.01         | 0.01          | 0.00        | 34.48       | 0.00        | 0.00        | 34.69        |
|  |   |   | Model Default Tier | Pressure Washers                   | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 1   | Model Default Tier | Pumps                              | 0.35        | 3.73       | 2.97        | 0.16         | 0.16          | 0.01        | 623.04      | 0.03        | 0.00        | 625.23       |
|  |   |   | Model Default Tier | Rollers                            | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 1   | Model Default Tier | Rough Terrain Forklifts            | 0.11        | 2.29       | 1.48        | 0.05         | 0.05          | 0.00        | 333.75      | 0.11        | 0.00        | 337.38       |
|  |   |   | Model Default Tier | Rubber Tired Dozers                | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Rubber Tired Loaders               | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 1   | Model Default Tier | Scrapers                           | 0.82        | 6.38       | 8.94        | 0.35         | 0.32          | 0.02        | 1470.30     | 0.48        | 0.01        | 1486.14      |
|  |   | 79  | Model Default Tier | Signal Boards                      | 4.53        | 23.76      | 23.39       | 1.10         | 1.10          | 0.05        | 3,656.78    | 0.40        | 0.03        | 3,915.69     |
|  |   |   | Model Default Tier | Skid Steer Loaders                 | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Surfacing Equipment                | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Sweepers/Scrubbers                 | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | 3   | Model Default Tier | Tractor Loaders/Backhoes           | 0.49        | 6.71       | 5.03        | 0.27         | 0.25          | 0.01        | 993.72      | 0.29        | 0.01        | 913.44       |
|  |   |   | Model Default Tier | Trenchers                          | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   |   | Model Default Tier | Welders                            | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
| <b>User-Defined Off-road Equipment</b> | <b>If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab</b> |   |                    |                                    | <b> ROG</b> | <b> CO</b> | <b> NOx</b> | <b> PM10</b> | <b> PM2.5</b> | <b> SOx</b> | <b> CO2</b> | <b> CH4</b> | <b> N2O</b> | <b> CO2e</b> |
|  | Number of Vehicles  |   | Equipment Tier     | Type                               | pounds/day  | pounds/day | pounds/day  | pounds/day   | pounds/day    | pounds/day  | pounds/day  | pounds/day  | pounds/day  | pounds/day   |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  | 0.00  |   | N/A                | 0                                  | 0.00        | 0.00       | 0.00        | 0.00         | 0.00          | 0.00        | 0.00        | 0.00        | 0.00        | 0.00         |
|  |   | Drainage/Utilities/Sub-Grade  |                    | pounds per day                     | 7.59        | 52.96      | 59.40       | 2.44         | 2.36          | 0.12        | 9,914.20    | 1.87        | 0.08        | 9,885.92     |
|  |   | Drainage/Utilities/Sub-Grade  |                    | tons per phase                     | 0.23        | 1.57       | 1.76        | 0.07         | 0.07          | 0.00        | 291.48      | 0.06        | 0.00        | 293.61       |



| Paving   | Default                                |                  | Mitigation Option   |                    | ROG   | CO         | NOx        | PM10       | PM2.5      | SOx        | CO2        | CH4        | N2O        | CO2e       |          |
|--|--|------------------|---|--------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|
|  | Number of Vehicles                     | Override of      | Default   | Default            |   |            |            |            |            |            |            |            |            |            |          |
|  | Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier     | Type  | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |          |
|  |  |                  |   | Model Default Tier | Aerial Lifts  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Air Compressors   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Bore/Drill Rigs   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Cement and Mortar Mixers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Concrete/Industrial Saws  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Cranes  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Crawler Tractors  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Crushing/Proc. Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Excavators  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Forklifts   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Generator Sets  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Graders   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Off-Highway Tractors  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Off-Highway Trucks  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Other Construction Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Other General Industrial Equipment  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Other Material Handling Equipment   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  | 1                |   | Model Default Tier | Pavers  | 0.21       | 2.88       | 2.10       | 0.10       | 0.09       | 0.00       | 455.26     | 0.15       | 0.00       | 460.17   |
|  |  | 1                |   | Model Default Tier | Paving Equipment  | 0.18       | 2.55       | 1.74       | 0.08       | 0.08       | 0.00       | 394.47     | 0.13       | 0.00       | 398.73   |
|  |  |                  |   | Model Default Tier | Plate Compactors  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Pressure Washers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Pumps   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  | 2                |   | Model Default Tier | Rollers   | 0.33       | 3.72       | 3.45       | 0.20       | 0.18       | 0.01       | 508.21     | 0.16       | 0.00       | 513.68   |
|  |  |                  |   | Model Default Tier | Rough Terrain Forklifts   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Rubber Tired Dozers   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Rubber Tired Loaders  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Scrapers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  | 79               |   | Model Default Tier | Signal Boards   | 4.53       | 23.76      | 22.39      | 1.10       | 1.10       | 0.05       | 3,826.78   | 0.40       | 0.00       | 3,915.69 |
|  |  |                  |   | Model Default Tier | Skid Steer Loaders  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Surfacing Equipment   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  |                  |   | Model Default Tier | Sweepers/Scrubbers  | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |          |
|  |  | 3                |   | Model Default Tier | Tractor Loaders/Backhoes  | 0.49       | 6.71       | 5.03       | 0.27       | 0.25       | 0.01       | 933.72     | 0.29       | 0.01       | 913.44   |
|  |  |                  |   | Model Default Tier | Trenchers   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  |  |                  |   | Model Default Tier | Welders   | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
| <b>User-Defined Off-road Equipment</b>                                 |  |                  |   |                    | <i>If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab</i> |            |            |            |            |            |            |            |            |            |          |
|  | Number of Vehicles                     |                  |   | Equipment Tier     | Type  | ROG        | CO         | NOx        | PM10       | PM2.5      | SOx        | CO2        | CH4        | N2O        | CO2e     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  | 0.00                                   |                  |   | N/A                |   | 0          | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00     |
|  |  | Paving           |   |                    | pounds per day  | 5.74       | 39.64      | 40.71      | 1.76       | 1.71       | 0.08       | 6,157.43   | 1.14       | 0.05       | 6,201.61 |
|  |  | Paving           |   |                    | tons per phase  | 0.09       | 0.59       | 0.60       | 0.03       | 0.03       | 0.00       | 91.44      | 0.02       | 0.00       | 92.06    |
| <b>Total Emissions all Phases (tons per construction period) =&gt;</b> |  |                  |   |                    |   | 0.77       | 5.27       | 6.21       | 0.25       | 0.24       | 0.01       | 981.91     | 0.22       | 0.01       | 989.91   |

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

| Equipment                          | User Override of<br>Horsepower | Default Values<br>Horsepower | User Override of<br>Hours/day | Default Values<br>Hours/day |
|------------------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|
| Aerial Lifts                       |                                | 63                           |                               | 8                           |
| Air Compressors                    |                                | 78                           |                               | 8                           |
| Bore/Drill Rigs                    |                                | 221                          |                               | 8                           |
| Cement and Mortar Mixers           |                                | 8                            |                               | 8                           |
| Concrete/Industrial Saws           |                                | 81                           |                               | 8                           |
| Cranes                             |                                | 231                          |                               | 8                           |
| Crawler Tractors                   |                                | 212                          |                               | 8                           |
| Crushing/Proc. Equipment           |                                | 85                           |                               | 8                           |
| Excavators                         |                                | 158                          |                               | 8                           |
| Forklifts                          |                                | 88                           |                               | 8                           |
| Generator Sets                     |                                | 84                           |                               | 8                           |
| Graders                            |                                | 187                          |                               | 8                           |
| Off-Highway Tractors               |                                | 124                          |                               | 8                           |
| Off-Highway Trucks                 |                                | 402                          |                               | 8                           |
| Other Construction Equipment       |                                | 172                          |                               | 8                           |
| Other General Industrial Equipment |                                | 88                           |                               | 8                           |
| Other Material Handling Equipment  |                                | 168                          |                               | 8                           |
| Pavers                             |                                | 130                          |                               | 8                           |
| Paving Equipment                   |                                | 132                          |                               | 8                           |
| Pile Compactors                    |                                | 8                            |                               | 8                           |
| Pressure Washers                   |                                | 13                           |                               | 8                           |
| Pumps                              |                                | 84                           |                               | 8                           |
| Rollers                            |                                | 80                           |                               | 8                           |
| Rough Terrain Forklifts            |                                | 100                          |                               | 8                           |
| Rubber Tired Dozers                |                                | 247                          |                               | 8                           |
| Rubber Tired Loaders               |                                | 203                          |                               | 8                           |
| Scrapers                           |                                | 357                          |                               | 8                           |
| Signal Boards                      |                                | 6                            |                               | 8                           |
| Skid Steer Loaders                 |                                | 65                           |                               | 8                           |
| Surfacing Equipment                |                                | 263                          |                               | 8                           |
| Sweepers/Scrubbers                 |                                | 64                           |                               | 8                           |
| Tractors/Loaders/Backhoes          |                                | 97                           |                               | 8                           |
| Trenchers                          |                                | 78                           |                               | 8                           |
| Welders                            |                                | 46                           |                               | 8                           |

END OF DATA ENTRY SHEET