

## **Appendix G: Air Quality/URBEMIS Output Files**

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Urbemis 2007 Version 9.2.4

## Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Millerton Road Widening Project.urb924

Project Name: Millerton Road Widening Project

Project Location: San Joaquin Valley APCD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## CONSTRUCTION EMISSION ESTIMATES

|                                     | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|-------------------------------------|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| 2012 TOTALS (tons/year unmitigated) | 1.50       | 11.47      | 6.40      | 0.00       | 1.02             | 0.65                | 1.67        | 0.21              | 0.60                 | 0.81         | 1,318.52   |
| 2012 TOTALS (tons/year mitigated)   | 1.50       | 9.87       | 6.40      | 0.00       | 0.42             | 0.08                | 0.50        | 0.09              | 0.07                 | 0.16         | 1,318.52   |
| Percent Reduction                   | 0.00       | 13.92      | 0.00      | 0.00       | 58.69            | 88.00               | 70.17       | 58.40             | 88.03                | 80.27        | 0.00       |

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Urbemis 2007 Version 9.2.4

## Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\equinn\Application Data\Urbemis\Version9a\Projects\Millerton Road Widening Project.urb924

Project Name: Millerton Road Widening Project

Project Location: San Joaquin Valley APCD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

## Summary Report:

## CONSTRUCTION EMISSION ESTIMATES

|                                   | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|-----------------------------------|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| 2012 TOTALS (lbs/day unmitigated) | 13.31      | 102.53     | 57.09     | 0.02       | 9.27             | 5.80                | 15.07       | 1.95              | 5.33                 | 7.28         | 11,803.41  |
| 2012 TOTALS (lbs/day mitigated)   | 13.31      | 88.27      | 57.09     | 0.02       | 3.83             | 0.70                | 4.53        | 0.81              | 0.64                 | 1.45         | 11,803.41  |

## Construction Unmitigated Detail Report:

## CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

| <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|

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|                                    |      |       |       |      |      |      |       |      |      |      |          |
|------------------------------------|------|-------|-------|------|------|------|-------|------|------|------|----------|
| Time Slice 1/2/2012-1/13/2012      | 4.72 | 40.41 | 21.58 | 0.01 | 4.65 | 1.98 | 6.63  | 0.98 | 1.82 | 2.80 | 4,837.59 |
| Active Days: 10                    |      |       |       |      |      |      |       |      |      |      |          |
| Mass Grading 01/01/2012-11/01/2012 | 4.72 | 40.41 | 21.58 | 0.01 | 4.65 | 1.98 | 6.63  | 0.98 | 1.82 | 2.80 | 4,837.59 |
| Mass Grading Dust                  | 0.00 | 0.00  | 0.00  | 0.00 | 4.60 | 0.00 | 4.60  | 0.96 | 0.00 | 0.96 | 0.00     |
| Mass Grading Off Road Diesel       | 4.21 | 33.73 | 17.65 | 0.00 | 0.00 | 1.73 | 1.73  | 0.00 | 1.59 | 1.59 | 3,560.44 |
| Mass Grading On Road Diesel        | 0.46 | 6.59  | 2.29  | 0.01 | 0.04 | 0.25 | 0.29  | 0.01 | 0.23 | 0.24 | 1,098.00 |
| Mass Grading Worker Trips          | 0.05 | 0.09  | 1.64  | 0.00 | 0.01 | 0.01 | 0.01  | 0.00 | 0.00 | 0.01 | 179.14   |
| Time Slice 1/16/2012-1/31/2012     | 9.48 | 78.42 | 42.27 | 0.01 | 9.26 | 3.96 | 13.22 | 1.94 | 3.64 | 5.58 | 9,199.20 |
| Active Days: 12                    |      |       |       |      |      |      |       |      |      |      |          |
| Fine Grading 01/15/2012-11/15/2012 | 4.76 | 38.01 | 20.69 | 0.00 | 4.61 | 1.98 | 6.59  | 0.96 | 1.82 | 2.79 | 4,361.61 |
| Fine Grading Dust                  | 0.00 | 0.00  | 0.00  | 0.00 | 4.60 | 0.00 | 4.60  | 0.96 | 0.00 | 0.96 | 0.00     |
| Fine Grading Off Road Diesel       | 4.70 | 37.90 | 18.59 | 0.00 | 0.00 | 1.97 | 1.97  | 0.00 | 1.82 | 1.82 | 4,131.28 |
| Fine Grading On Road Diesel        | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | 0.00     |
| Fine Grading Worker Trips          | 0.07 | 0.11  | 2.10  | 0.00 | 0.01 | 0.01 | 0.02  | 0.00 | 0.01 | 0.01 | 230.33   |
| Mass Grading 01/01/2012-11/01/2012 | 4.72 | 40.41 | 21.58 | 0.01 | 4.65 | 1.98 | 6.63  | 0.98 | 1.82 | 2.80 | 4,837.59 |
| Mass Grading Dust                  | 0.00 | 0.00  | 0.00  | 0.00 | 4.60 | 0.00 | 4.60  | 0.96 | 0.00 | 0.96 | 0.00     |
| Mass Grading Off Road Diesel       | 4.21 | 33.73 | 17.65 | 0.00 | 0.00 | 1.73 | 1.73  | 0.00 | 1.59 | 1.59 | 3,560.44 |
| Mass Grading On Road Diesel        | 0.46 | 6.59  | 2.29  | 0.01 | 0.04 | 0.25 | 0.29  | 0.01 | 0.23 | 0.24 | 1,098.00 |
| Mass Grading Worker Trips          | 0.05 | 0.09  | 1.64  | 0.00 | 0.01 | 0.01 | 0.01  | 0.00 | 0.00 | 0.01 | 179.14   |

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|                                    |              |               |              |             |             |             |              |             |             |             |                  |
|------------------------------------|--------------|---------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------------------|
| Time Slice 2/1/2012-11/1/2012      | <u>13.31</u> | <u>102.53</u> | <u>57.09</u> | <u>0.02</u> | <u>9.27</u> | <u>5.80</u> | <u>15.07</u> | <u>1.95</u> | <u>5.33</u> | <u>7.28</u> | <u>11,803.41</u> |
| Active Days: 197                   |              |               |              |             |             |             |              |             |             |             |                  |
| Asphalt 02/01/2012-12/31/2012      | 3.83         | 24.11         | 14.81        | 0.00        | 0.01        | 1.84        | 1.85         | 0.00        | 1.69        | 1.70        | 2,604.21         |
| Paving Off-Gas                     | 0.22         | 0.00          | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00             |
| Paving Off Road Diesel             | 3.51         | 23.41         | 12.74        | 0.00        | 0.00        | 1.81        | 1.81         | 0.00        | 1.67        | 1.67        | 2,299.30         |
| Paving On Road Diesel              | 0.04         | 0.60          | 0.21         | 0.00        | 0.00        | 0.02        | 0.03         | 0.00        | 0.02        | 0.02        | 100.17           |
| Paving Worker Trips                | 0.06         | 0.10          | 1.87         | 0.00        | 0.01        | 0.01        | 0.02         | 0.00        | 0.00        | 0.01        | 204.73           |
| Fine Grading 01/15/2012-11/15/2012 | 4.76         | 38.01         | 20.69        | 0.00        | 4.61        | 1.98        | 6.59         | 0.96        | 1.82        | 2.79        | 4,361.61         |
| Fine Grading Dust                  | 0.00         | 0.00          | 0.00         | 0.00        | 4.60        | 0.00        | 4.60         | 0.96        | 0.00        | 0.96        | 0.00             |
| Fine Grading Off Road Diesel       | 4.70         | 37.90         | 18.59        | 0.00        | 0.00        | 1.97        | 1.97         | 0.00        | 1.82        | 1.82        | 4,131.28         |
| Fine Grading On Road Diesel        | 0.00         | 0.00          | 0.00         | 0.00        | 0.00        | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00             |
| Fine Grading Worker Trips          | 0.07         | 0.11          | 2.10         | 0.00        | 0.01        | 0.01        | 0.02         | 0.00        | 0.01        | 0.01        | 230.33           |
| Mass Grading 01/01/2012-11/01/2012 | 4.72         | 40.41         | 21.58        | 0.01        | 4.65        | 1.98        | 6.63         | 0.98        | 1.82        | 2.80        | 4,837.59         |
| Mass Grading Dust                  | 0.00         | 0.00          | 0.00         | 0.00        | 4.60        | 0.00        | 4.60         | 0.96        | 0.00        | 0.96        | 0.00             |
| Mass Grading Off Road Diesel       | 4.21         | 33.73         | 17.65        | 0.00        | 0.00        | 1.73        | 1.73         | 0.00        | 1.59        | 1.59        | 3,560.44         |
| Mass Grading On Road Diesel        | 0.46         | 6.59          | 2.29         | 0.01        | 0.04        | 0.25        | 0.29         | 0.01        | 0.23        | 0.24        | 1,098.00         |
| Mass Grading Worker Trips          | 0.05         | 0.09          | 1.64         | 0.00        | 0.01        | 0.01        | 0.01         | 0.00        | 0.00        | 0.01        | 179.14           |

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|                                                     |      |       |       |      |      |      |      |      |      |      |          |
|-----------------------------------------------------|------|-------|-------|------|------|------|------|------|------|------|----------|
| Time Slice 11/2/2012-11/15/2012<br>Active Days: 10  | 8.59 | 62.12 | 35.50 | 0.01 | 4.62 | 3.82 | 8.45 | 0.97 | 3.51 | 4.48 | 6,965.82 |
| Asphalt 02/01/2012-12/31/2012                       | 3.83 | 24.11 | 14.81 | 0.00 | 0.01 | 1.84 | 1.85 | 0.00 | 1.69 | 1.70 | 2,604.21 |
| Paving Off-Gas                                      | 0.22 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Paving Off Road Diesel                              | 3.51 | 23.41 | 12.74 | 0.00 | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,299.30 |
| Paving On Road Diesel                               | 0.04 | 0.60  | 0.21  | 0.00 | 0.00 | 0.02 | 0.03 | 0.00 | 0.02 | 0.02 | 100.17   |
| Paving Worker Trips                                 | 0.06 | 0.10  | 1.87  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 204.73   |
| Fine Grading 01/15/2012-<br>11/15/2012              | 4.76 | 38.01 | 20.69 | 0.00 | 4.61 | 1.98 | 6.59 | 0.96 | 1.82 | 2.79 | 4,361.61 |
| Fine Grading Dust                                   | 0.00 | 0.00  | 0.00  | 0.00 | 4.60 | 0.00 | 4.60 | 0.96 | 0.00 | 0.96 | 0.00     |
| Fine Grading Off Road Diesel                        | 4.70 | 37.90 | 18.59 | 0.00 | 0.00 | 1.97 | 1.97 | 0.00 | 1.82 | 1.82 | 4,131.28 |
| Fine Grading On Road Diesel                         | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Fine Grading Worker Trips                           | 0.07 | 0.11  | 2.10  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 230.33   |
| Time Slice 11/16/2012-12/31/2012<br>Active Days: 32 | 3.83 | 24.11 | 14.81 | 0.00 | 0.01 | 1.84 | 1.85 | 0.00 | 1.69 | 1.70 | 2,604.21 |
| Asphalt 02/01/2012-12/31/2012                       | 3.83 | 24.11 | 14.81 | 0.00 | 0.01 | 1.84 | 1.85 | 0.00 | 1.69 | 1.70 | 2,604.21 |
| Paving Off-Gas                                      | 0.22 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Paving Off Road Diesel                              | 3.51 | 23.41 | 12.74 | 0.00 | 0.00 | 1.81 | 1.81 | 0.00 | 1.67 | 1.67 | 2,299.30 |
| Paving On Road Diesel                               | 0.04 | 0.60  | 0.21  | 0.00 | 0.00 | 0.02 | 0.03 | 0.00 | 0.02 | 0.02 | 100.17   |
| Paving Worker Trips                                 | 0.06 | 0.10  | 1.87  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 204.73   |

Phase Assumptions

Phase: Fine Grading 1/15/2012 - 11/15/2012 - Default Fine Site Grading Description

Total Acres Disturbed: 59.52

Maximum Daily Acreage Disturbed: 0.23

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

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On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Plate Compactors (8 hp) operating at a 0.43 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 1/1/2012 - 11/1/2012 - Default Building Construction Description

Total Acres Disturbed: 59.52

Maximum Daily Acreage Disturbed: 0.23

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 272.73

Off-Road Equipment:

- 2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/1/2012 - 12/31/2012 - Default Paving Description

Acres to be Paved: 20.06

Off-Road Equipment:

- 1 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day
- 1 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

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2 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

## Construction Mitigated Detail Report:

## CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

|                                                   | <u>ROG</u> | <u>NOx</u> | <u>CO</u> | <u>SO2</u> | <u>PM10 Dust</u> | <u>PM10 Exhaust</u> | <u>PM10</u> | <u>PM2.5 Dust</u> | <u>PM2.5 Exhaust</u> | <u>PM2.5</u> | <u>CO2</u> |
|---------------------------------------------------|------------|------------|-----------|------------|------------------|---------------------|-------------|-------------------|----------------------|--------------|------------|
| Time Slice 1/2/2012-1/13/2012<br>Active Days: 10  | 4.72       | 35.35      | 21.58     | 0.01       | 1.93             | 0.38                | 2.31        | 0.41              | 0.35                 | 0.76         | 4,837.59   |
| Mass Grading 01/01/2012-<br>11/01/2012            | 4.72       | 35.35      | 21.58     | 0.01       | 1.93             | 0.38                | 2.31        | 0.41              | 0.35                 | 0.76         | 4,837.59   |
| Mass Grading Dust                                 | 0.00       | 0.00       | 0.00      | 0.00       | 1.88             | 0.00                | 1.88        | 0.39              | 0.00                 | 0.39         | 0.00       |
| Mass Grading Off Road Diesel                      | 4.21       | 28.67      | 17.65     | 0.00       | 0.00             | 0.13                | 0.13        | 0.00              | 0.12                 | 0.12         | 3,560.44   |
| Mass Grading On Road Diesel                       | 0.46       | 6.59       | 2.29      | 0.01       | 0.04             | 0.25                | 0.29        | 0.01              | 0.23                 | 0.24         | 1,098.00   |
| Mass Grading Worker Trips                         | 0.05       | 0.09       | 1.64      | 0.00       | 0.01             | 0.01                | 0.01        | 0.00              | 0.00                 | 0.01         | 179.14     |
| Time Slice 1/16/2012-1/31/2012<br>Active Days: 12 | 9.48       | 67.68      | 42.27     | 0.01       | 3.82             | 0.54                | 4.35        | 0.80              | 0.49                 | 1.30         | 9,199.20   |
| Fine Grading 01/15/2012-<br>11/15/2012            | 4.76       | 32.33      | 20.69     | 0.00       | 1.89             | 0.15                | 2.04        | 0.40              | 0.14                 | 0.54         | 4,361.61   |
| Fine Grading Dust                                 | 0.00       | 0.00       | 0.00      | 0.00       | 1.88             | 0.00                | 1.88        | 0.39              | 0.00                 | 0.39         | 0.00       |
| Fine Grading Off Road Diesel                      | 4.70       | 32.22      | 18.59     | 0.00       | 0.00             | 0.15                | 0.15        | 0.00              | 0.14                 | 0.14         | 4,131.28   |
| Fine Grading On Road Diesel                       | 0.00       | 0.00       | 0.00      | 0.00       | 0.00             | 0.00                | 0.00        | 0.00              | 0.00                 | 0.00         | 0.00       |
| Fine Grading Worker Trips                         | 0.07       | 0.11       | 2.10      | 0.00       | 0.01             | 0.01                | 0.02        | 0.00              | 0.01                 | 0.01         | 230.33     |
| Mass Grading 01/01/2012-<br>11/01/2012            | 4.72       | 35.35      | 21.58     | 0.01       | 1.93             | 0.38                | 2.31        | 0.41              | 0.35                 | 0.76         | 4,837.59   |
| Mass Grading Dust                                 | 0.00       | 0.00       | 0.00      | 0.00       | 1.88             | 0.00                | 1.88        | 0.39              | 0.00                 | 0.39         | 0.00       |
| Mass Grading Off Road Diesel                      | 4.21       | 28.67      | 17.65     | 0.00       | 0.00             | 0.13                | 0.13        | 0.00              | 0.12                 | 0.12         | 3,560.44   |
| Mass Grading On Road Diesel                       | 0.46       | 6.59       | 2.29      | 0.01       | 0.04             | 0.25                | 0.29        | 0.01              | 0.23                 | 0.24         | 1,098.00   |
| Mass Grading Worker Trips                         | 0.05       | 0.09       | 1.64      | 0.00       | 0.01             | 0.01                | 0.01        | 0.00              | 0.00                 | 0.01         | 179.14     |

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|                                                   |              |              |              |             |             |             |             |             |             |             |                  |
|---------------------------------------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|
| Time Slice 2/1/2012-11/1/2012<br>Active Days: 197 | <u>13.31</u> | <u>88.27</u> | <u>57.09</u> | <u>0.02</u> | <u>3.83</u> | <u>0.70</u> | <u>4.53</u> | <u>0.81</u> | <u>0.64</u> | <u>1.45</u> | <u>11,803.41</u> |
| Asphalt 02/01/2012-12/31/2012                     | 3.83         | 20.60        | 14.81        | 0.00        | 0.01        | 0.16        | 0.18        | 0.00        | 0.15        | 0.16        | 2,604.21         |
| Paving Off-Gas                                    | 0.22         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00             |
| Paving Off Road Diesel                            | 3.51         | 19.90        | 12.74        | 0.00        | 0.00        | 0.14        | 0.14        | 0.00        | 0.13        | 0.13        | 2,299.30         |
| Paving On Road Diesel                             | 0.04         | 0.60         | 0.21         | 0.00        | 0.00        | 0.02        | 0.03        | 0.00        | 0.02        | 0.02        | 100.17           |
| Paving Worker Trips                               | 0.06         | 0.10         | 1.87         | 0.00        | 0.01        | 0.01        | 0.02        | 0.00        | 0.00        | 0.01        | 204.73           |
| Fine Grading 01/15/2012-<br>11/15/2012            | 4.76         | 32.33        | 20.69        | 0.00        | 1.89        | 0.15        | 2.04        | 0.40        | 0.14        | 0.54        | 4,361.61         |
| Fine Grading Dust                                 | 0.00         | 0.00         | 0.00         | 0.00        | 1.88        | 0.00        | 1.88        | 0.39        | 0.00        | 0.39        | 0.00             |
| Fine Grading Off Road Diesel                      | 4.70         | 32.22        | 18.59        | 0.00        | 0.00        | 0.15        | 0.15        | 0.00        | 0.14        | 0.14        | 4,131.28         |
| Fine Grading On Road Diesel                       | 0.00         | 0.00         | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00             |
| Fine Grading Worker Trips                         | 0.07         | 0.11         | 2.10         | 0.00        | 0.01        | 0.01        | 0.02        | 0.00        | 0.01        | 0.01        | 230.33           |
| Mass Grading 01/01/2012-<br>11/01/2012            | 4.72         | 35.35        | 21.58        | 0.01        | 1.93        | 0.38        | 2.31        | 0.41        | 0.35        | 0.76        | 4,837.59         |
| Mass Grading Dust                                 | 0.00         | 0.00         | 0.00         | 0.00        | 1.88        | 0.00        | 1.88        | 0.39        | 0.00        | 0.39        | 0.00             |
| Mass Grading Off Road Diesel                      | 4.21         | 28.67        | 17.65        | 0.00        | 0.00        | 0.13        | 0.13        | 0.00        | 0.12        | 0.12        | 3,560.44         |
| Mass Grading On Road Diesel                       | 0.46         | 6.59         | 2.29         | 0.01        | 0.04        | 0.25        | 0.29        | 0.01        | 0.23        | 0.24        | 1,098.00         |
| Mass Grading Worker Trips                         | 0.05         | 0.09         | 1.64         | 0.00        | 0.01        | 0.01        | 0.01        | 0.00        | 0.00        | 0.01        | 179.14           |

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|                                                     |      |       |       |      |      |      |      |      |      |      |          |
|-----------------------------------------------------|------|-------|-------|------|------|------|------|------|------|------|----------|
| Time Slice 11/2/2012-11/15/2012<br>Active Days: 10  | 8.59 | 52.92 | 35.50 | 0.01 | 1.90 | 0.32 | 2.22 | 0.40 | 0.29 | 0.69 | 6,965.82 |
| Asphalt 02/01/2012-12/31/2012                       | 3.83 | 20.60 | 14.81 | 0.00 | 0.01 | 0.16 | 0.18 | 0.00 | 0.15 | 0.16 | 2,604.21 |
| Paving Off-Gas                                      | 0.22 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Paving Off Road Diesel                              | 3.51 | 19.90 | 12.74 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.13 | 0.13 | 2,299.30 |
| Paving On Road Diesel                               | 0.04 | 0.60  | 0.21  | 0.00 | 0.00 | 0.02 | 0.03 | 0.00 | 0.02 | 0.02 | 100.17   |
| Paving Worker Trips                                 | 0.06 | 0.10  | 1.87  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 204.73   |
| Fine Grading 01/15/2012-11/15/2012                  | 4.76 | 32.33 | 20.69 | 0.00 | 1.89 | 0.15 | 2.04 | 0.40 | 0.14 | 0.54 | 4,361.61 |
| Fine Grading Dust                                   | 0.00 | 0.00  | 0.00  | 0.00 | 1.88 | 0.00 | 1.88 | 0.39 | 0.00 | 0.39 | 0.00     |
| Fine Grading Off Road Diesel                        | 4.70 | 32.22 | 18.59 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.14 | 0.14 | 4,131.28 |
| Fine Grading On Road Diesel                         | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Fine Grading Worker Trips                           | 0.07 | 0.11  | 2.10  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.01 | 230.33   |
| Time Slice 11/16/2012-12/31/2012<br>Active Days: 32 | 3.83 | 20.60 | 14.81 | 0.00 | 0.01 | 0.16 | 0.18 | 0.00 | 0.15 | 0.16 | 2,604.21 |
| Asphalt 02/01/2012-12/31/2012                       | 3.83 | 20.60 | 14.81 | 0.00 | 0.01 | 0.16 | 0.18 | 0.00 | 0.15 | 0.16 | 2,604.21 |
| Paving Off-Gas                                      | 0.22 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     |
| Paving Off Road Diesel                              | 3.51 | 19.90 | 12.74 | 0.00 | 0.00 | 0.14 | 0.14 | 0.00 | 0.13 | 0.13 | 2,299.30 |
| Paving On Road Diesel                               | 0.04 | 0.60  | 0.21  | 0.00 | 0.00 | 0.02 | 0.03 | 0.00 | 0.02 | 0.02 | 100.17   |
| Paving Worker Trips                                 | 0.06 | 0.10  | 1.87  | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 204.73   |

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 1/15/2012 - 11/15/2012 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

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For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Plate Compactors, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Plate Compactors, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Other Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Other Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

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The following mitigation measures apply to Phase: Mass Grading 1/1/2012 - 11/1/2012 - Default Building Construction Description

For Soil Stabilizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by:

PM10: 44% PM25: 44%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:

PM10: 55% PM25: 55%

For Graders, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rubber Tired Dozers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rubber Tired Dozers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Tractors/Loaders/Backhoes, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Paving 2/1/2012 - 12/31/2012 - Default Paving Description

For Cement and Mortar Mixers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Cement and Mortar Mixers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Pavers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

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For Pavers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Paving Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Paving Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Rollers, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Rollers, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Air Compressors, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Air Compressors, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Other Equipment, the Use Aqueous Diesel Fuel mitigation reduces emissions by:

NOX: 15% PM10: 50% PM25: 50%

For Other Equipment, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%