

**Appendix F. URBEMIS 2007 Model Estimates
Construction Emissions**

Combined Summer Emissions Reports (Pounds/Day)

File Name : C:\Documents and Settings\gp\Desktop\Greenway.urb924

Project Name : Greenway Shared Use Trail

Project Location : Mountain Counties Air Basin

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

Off-Road Vehicle Emissions Based on : OFFROAD2007

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>
Time Slice 5/1/2012-5/1/2012 Active Days: 1	<u>4.63</u>	<u>36.01</u>	<u>22.79</u>	<u>0.00</u>	<u>0.62</u>	<u>1.95</u>	<u>2.57</u>	<u>0.13</u>	<u>1.79</u>	<u>1.92</u>	<u>3,972.11</u>
Fine Grading 05/01/2012-05/01/2012	4.63	36.01	22.79	0.00	0.62	1.95	2.57	0.13	1.79	1.92	3,972.11
Fine Grading Dust	0.00	0.00	0.00	0.00	0.60	0.00	0.60	0.13	0.00	0.13	0.00
Fine Grading Off Road Diesel	4.44	34.56	19.68	0.00	0.00	1.90	1.90	0.00	1.75	1.75	3,572.34
Fine Grading On Road Diesel	0.09	1.29	0.43	0.00	0.01	0.05	0.06	0.00	0.04	0.05	221.43
Fine Grading Worker Trips	0.10	0.16	2.67	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.34

Phase Assumptions

Phase : Fine Grading 5/1/2012 - 5/1/2012 - Default Fine Site Grading Description

Total Acres Disturbed: 7

Maximum Daily Acreage Disturbed: 0.03

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

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On Road Truck Travel (VMT) : 55

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
- 1 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase : Paving 5/1/2012 - 2/1/2012 - Default Paving Description

Acres to be Paved: 3.32

Off-Road Equipment:

- 4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 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
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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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 5/1/2012-5/1/2012 Active Days: 1	4.63	36.01	22.79	0.00	0.62	1.95	2.57	0.13	1.79	1.92	3,972.11
Fine Grading 05/01/2012-05/01/2012	4.63	36.01	22.79	0.00	0.62	1.95	2.57	0.13	1.79	1.92	3,972.11
Fine Grading Dust	0.00	0.00	0.00	0.00	0.60	0.00	0.60	0.13	0.00	0.13	0.00
Fine Grading Off Road Diesel	4.44	34.56	19.68	0.00	0.00	1.90	1.90	0.00	1.75	1.75	3,572.34
Fine Grading On Road Diesel	0.09	1.29	0.43	0.00	0.01	0.05	0.06	0.00	0.04	0.05	221.43
Fine Grading Worker Trips	0.10	0.16	2.67	0.00	0.01	0.00	0.01	0.00	0.00	0.01	178.34

Construction Related Mitigation Measures