

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\JPaukovits\Application Data\Urbemis\Version9a\Projects\Rocklin Commons - Phase I Construction Emissions (1).urb924

Project Name: Rocklin Commons

Project Location: Placer County 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>
2009 TOTALS (lbs/day unmitigated)	4.46	35.72	19.44	0.00	204.41	1.92	206.33	42.69	1.77	44.46	3,135.25
2010 TOTALS (lbs/day unmitigated)	48.63	33.73	30.03	0.02	204.41	1.80	206.20	42.69	1.65	44.34	4,002.65
2011 TOTALS (lbs/day unmitigated)	48.29	19.57	28.13	0.02	0.11	1.30	1.41	0.04	1.20	1.23	4,003.50

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter 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 10/1/2009-12/31/2009 Active Days: 66	<u>4.46</u>	<u>35.72</u>	<u>19.44</u>	<u>0.00</u>	<u>204.41</u>	<u>1.92</u>	<u>206.33</u>	<u>42.69</u>	<u>1.77</u>	<u>44.46</u>	<u>3,135.25</u>
Mass Grading 10/01/2009-06/01/2010	4.46	35.72	19.44	0.00	204.41	1.92	206.33	42.69	1.77	44.46	3,135.25
Mass Grading Dust	0.00	0.00	0.00	0.00	204.40	0.00	204.40	42.69	0.00	42.69	0.00
Mass Grading Off Road Diesel	4.42	35.65	18.16	0.00	0.00	1.92	1.92	0.00	1.77	1.77	3,007.48
Mass 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
Mass Grading Worker Trips	0.04	0.07	1.28	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.77
Time Slice 1/1/2010-6/1/2010 Active Days: 108	4.20	<u>33.73</u>	18.66	0.00	<u>204.41</u>	<u>1.80</u>	<u>206.20</u>	<u>42.69</u>	<u>1.65</u>	<u>44.34</u>	3,135.32
Mass Grading 10/01/2009-06/01/2010	4.20	33.73	18.66	0.00	204.41	1.80	206.20	42.69	1.65	44.34	3,135.32
Mass Grading Dust	0.00	0.00	0.00	0.00	204.40	0.00	204.40	42.69	0.00	42.69	0.00
Mass Grading Off Road Diesel	4.16	33.67	17.48	0.00	0.00	1.79	1.79	0.00	1.65	1.65	3,007.48
Mass 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
Mass Grading Worker Trips	0.04	0.06	1.17	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.84
Time Slice 6/2/2010-10/1/2010 Active Days: 88	3.26	18.17	10.87	0.00	0.01	1.54	1.55	0.00	1.42	1.42	1,538.86
Asphalt 06/02/2010-10/02/2010	3.26	18.17	10.87	0.00	0.01	1.54	1.55	0.00	1.42	1.42	1,538.86
Paving Off-Gas	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.86	17.13	9.38	0.00	0.00	1.50	1.50	0.00	1.38	1.38	1,272.41
Paving On Road Diesel	0.06	0.98	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.04	138.61
Paving Worker Trips	0.04	0.06	1.17	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.84

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Time Slice 10/4/2010-12/31/2010 Active Days: 65	<b><u>48.63</u></b>	20.85	<b><u>30.03</u></b>	<b><u>0.02</u></b>	0.11	1.37	1.48	0.04	1.26	1.29	<b><u>4,002.65</u></b>
Building 10/03/2010-04/03/2011	4.46	20.83	29.55	0.02	0.10	1.37	1.47	0.04	1.26	1.29	3,949.95
Building Off Road Diesel	3.79	17.78	11.73	0.00	0.00	1.25	1.25	0.00	1.15	1.15	1,746.33
Building Vendor Trips	0.16	2.18	1.60	0.00	0.02	0.08	0.10	0.01	0.08	0.08	436.38
Building Worker Trips	0.51	0.87	16.21	0.02	0.09	0.04	0.13	0.03	0.03	0.07	1,767.25
Coating 10/03/2010-04/03/2011	44.17	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.70
Architectural Coating	44.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.70
Time Slice 1/3/2011-4/1/2011 Active Days: 65	<b><u>48.29</u></b>	<b><u>19.57</u></b>	<b><u>28.13</u></b>	<b><u>0.02</u></b>	<b><u>0.11</u></b>	<b><u>1.30</u></b>	<b><u>1.41</u></b>	<b><u>0.04</u></b>	<b><u>1.20</u></b>	<b><u>1.23</u></b>	<b><u>4,003.50</u></b>
Building 10/03/2010-04/03/2011	4.13	19.55	27.69	0.02	0.10	1.30	1.41	0.04	1.19	1.23	3,950.77
Building Off Road Diesel	3.51	16.81	11.35	0.00	0.00	1.19	1.19	0.00	1.09	1.09	1,746.33
Building Vendor Trips	0.15	1.95	1.49	0.00	0.02	0.07	0.09	0.01	0.07	0.07	436.35
Building Worker Trips	0.47	0.79	14.85	0.02	0.09	0.04	0.13	0.03	0.03	0.07	1,768.09
Coating 10/03/2010-04/03/2011	44.16	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.72
Architectural Coating	44.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.72

Phase Assumptions

Phase: Mass Grading 10/1/2009 - 6/1/2010 - Default Mass Site Grading Description

Total Acres Disturbed: 40.86

Maximum Daily Acreage Disturbed: 10.22

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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- 1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
- 2 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 6/2/2010 - 10/2/2010 - Default Paving Description

Acres to be Paved: 10.22

Off-Road Equipment:

- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/3/2010 - 4/3/2011 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day
- 1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 10/3/2010 - 4/3/2011 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250



