

Appendix B

Air Quality Data



Urbemis 2007 Version 9.2.4

Summary Report for Summer Emissions (Pounds/Day)

File Name: L:\ESP\Santa Cruz Co\07-60620 Scotts V Town Ctr SP & EIR\Other\Air Quality Data\Scott's Valley AQ.urb924

Project Name: Scotts Valley AQ

Project Location: Santa Cruz County

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>
2008 TOTALS (lbs/day unmitigated)	10.84	63.07	34.97	0.01	203.64	3.90	207.54	42.53	3.59	46.12	5,240.43
2009 TOTALS (lbs/day unmitigated)	523.81	59.66	145.62	0.08	203.64	3.69	207.33	42.53	3.39	45.92	10,835.18

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	18.67	5.35	11.50	0.00	0.03	0.03	6,498.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	100.72	115.65	1,043.57	0.51	100.28	19.60	54,252.02
TOTALS (lbs/day, mitigated)	59.83	66.81	604.51	0.30	58.48	11.44	31,627.15
Percent Reduction	40.60	42.23	42.07	41.18	41.68	41.63	41.70

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	119.39	121.00	1,055.07	0.51	100.31	19.63	60,750.04

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Urbemis 2007 Version 9.2.4

Summary Report for Winter Emissions (Pounds/Day)

File Name: L:\ESP\Santa Cruz Co\07-60620 Scotts V Town Ctr SP & EIR\Other\Air Quality Data\Scott's Valley AQ.urb924

Project Name: Scotts Valley AQ

Project Location: Santa Cruz County

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>
2008 TOTALS (lbs/day unmitigated)	10.84	63.07	34.97	0.01	203.64	3.90	207.54	42.53	3.59	46.12	5,240.43
2009 TOTALS (lbs/day unmitigated)	523.81	59.66	145.62	0.08	203.64	3.69	207.33	42.53	3.39	45.92	10,835.18

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	68.79	10.39	234.40	0.70	36.86	35.48	13,588.20

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	119.29	143.45	1,235.88	0.51	100.28	19.60	53,552.49
TOTALS (lbs/day, mitigated)	68.84	82.93	712.52	0.30	58.48	11.44	31,219.17
Percent Reduction	42.29	42.19	42.35	41.18	41.68	41.63	41.70

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	188.08	153.84	1,470.28	1.21	137.14	55.08	67,140.69

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name: L:\ESP\Santa Cruz Co\07-60620 Scotts V Town Ctr SP & EIR\Other\Air Quality Data\Scott's Valley AQ.urb924

Project Name: Scotts Valley AQ

Project Location: Santa Cruz County

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>
2008 TOTALS (tons/year unmitigated)	0.06	0.47	0.26	0.00	2.34	0.03	2.37	0.49	0.02	0.51	39.26
2009 TOTALS (tons/year unmitigated)	5.95	2.98	10.86	0.01	0.75	0.16	0.90	0.16	0.14	0.30	827.54

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	5.43	1.14	10.81	0.03	1.51	1.45	1,428.71

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	19.51	22.80	202.15	0.10	18.31	3.58	9,858.44
TOTALS (tons/year, mitigated)	11.47	13.17	116.89	0.05	10.67	2.09	5,747.13
Percent Reduction	41.21	42.24	42.18	50.00	41.73	41.62	41.70

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	24.94	23.94	212.96	0.13	19.82	5.03	11,287.15

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Construction Emissions: Mitigated

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Combined Summer Emissions Reports (Pounds/Day)

File Name: L:\ESP\Santa Cruz Co\07-60620 Scotts V Town Ctr SP & EIR\Other\Air Quality Data\Scott's Valley AQ.urb924

Project Name: Scotts Valley AQ

Project Location: Santa Cruz County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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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>
2008 TOTALS (lbs/day unmitigated)	10.84	63.07	34.97	0.01	203.64	3.90	207.54	42.53	3.59	46.12	5,240.43
2008 TOTALS (lbs/day mitigated)	10.84	63.07	34.97	0.01	46.20	3.90	50.10	9.65	3.59	13.24	5,240.43
2009 TOTALS (lbs/day unmitigated)	523.81	59.66	145.62	0.08	203.64	3.69	207.33	42.53	3.39	45.92	10,835.18
2009 TOTALS (lbs/day mitigated)	523.81	59.66	145.62	0.08	46.20	3.69	49.89	9.65	3.39	13.05	10,835.18

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	18.67	5.35	11.50	0.00	0.03	0.03	6,498.02

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	100.72	115.65	1,043.57	0.51	100.28	19.60	54,252.02
TOTALS (lbs/day, mitigated)	59.83	66.81	604.51	0.30	58.48	11.44	31,627.15
Percent Reduction	40.60	42.23	42.07	41.18	41.68	41.63	41.70

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	119.39	121.00	1,055.07	0.51	100.31	19.63	60,750.04

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Construction Unmitigated Detail Report:

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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 12/1/2008-12/26/2008 Active Days: 20	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Time Slice 12/29/2008-12/31/2008 Active Days: 3	<u>10.84</u>	<u>63.07</u>	<u>34.97</u>	<u>0.01</u>	<u>203.64</u>	<u>3.90</u>	<u>207.54</u>	<u>42.53</u>	<u>3.59</u>	<u>46.12</u>	<u>5,240.43</u>
Asphalt 12/28/2008-01/11/2009	6.12	25.15	13.83	0.01	0.03	1.87	1.90	0.01	1.72	1.73	2,100.73
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.21	18.89	9.61	0.00	0.00	1.63	1.63	0.00	1.50	1.50	1,272.41
Paving On Road Diesel	0.39	6.07	2.01	0.01	0.02	0.23	0.25	0.01	0.21	0.22	696.10
Paving Worker Trips	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22

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Time Slice 1/1/2009-1/9/2009 Active Days: 7	10.41	<u>59.66</u>	33.66	0.01	<u>203.64</u>	<u>3.69</u>	<u>207.33</u>	<u>42.53</u>	<u>3.39</u>	<u>45.92</u>	5,240.16
Asphalt 12/28/2008-01/11/2009	5.90	23.84	13.41	0.01	0.03	1.76	1.79	0.01	1.62	1.63	2,100.60
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.02	17.99	9.48	0.00	0.00	1.55	1.55	0.00	1.43	1.43	1,272.41
Paving On Road Diesel	0.36	5.67	1.84	0.01	0.02	0.21	0.23	0.01	0.19	0.20	696.10
Paving Worker Trips	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Fine Grading 11/30/2008-01/11/2009	4.51	35.82	20.25	0.00	203.61	1.93	205.53	42.52	1.77	44.29	3,139.56
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine 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
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	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Time Slice 1/12/2009-8/7/2009 Active Days: 150	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75

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Time Slice 8/10/2009-8/21/2009	<u>523.81</u>	35.62	<u>145.62</u>	<u>0.08</u>	0.45	1.84	2.29	0.16	1.66	1.83	<u>10,835.18</u>
Active Days: 10											
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Time Slice 8/24/2009-9/4/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Active Days: 10											
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02

Phase Assumptions

Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 40.74

Maximum Daily Acreage Disturbed: 10.18

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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Phase: Paving 12/28/2008 - 1/11/2009 - Default Paving Description

Acres to be Paved: 10.18

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 1/11/2009 - 8/22/2009 - 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 8/8/2009 - 9/5/2009 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 100
- 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

ROG NOx CO SO2 PM10 Dust PM10 Exhaust PM10 PM2.5 Dust PM2.5 Exhaust PM2.5 CO2

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Time Slice 12/1/2008-12/26/2008	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Active Days: 20											
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Time Slice 12/29/2008-12/31/2008	<u>10.84</u>	<u>63.07</u>	<u>34.97</u>	<u>0.01</u>	<u>46.20</u>	<u>3.90</u>	<u>50.10</u>	<u>9.65</u>	<u>3.59</u>	<u>13.24</u>	<u>5,240.43</u>
Active Days: 3											
Asphalt 12/28/2008-01/11/2009	6.12	25.15	13.83	0.01	0.03	1.87	1.90	0.01	1.72	1.73	2,100.73
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.21	18.89	9.61	0.00	0.00	1.63	1.63	0.00	1.50	1.50	1,272.41
Paving On Road Diesel	0.39	6.07	2.01	0.01	0.02	0.23	0.25	0.01	0.21	0.22	696.10
Paving Worker Trips	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22

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Time Slice 1/1/2009-1/9/2009 Active Days: 7	10.41	<u>59.66</u>	33.66	0.01	<u>46.20</u>	<u>3.69</u>	<u>49.89</u>	<u>9.65</u>	<u>3.39</u>	<u>13.05</u>	5,240.16
Asphalt 12/28/2008-01/11/2009	5.90	23.84	13.41	0.01	0.03	1.76	1.79	0.01	1.62	1.63	2,100.60
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.02	17.99	9.48	0.00	0.00	1.55	1.55	0.00	1.43	1.43	1,272.41
Paving On Road Diesel	0.36	5.67	1.84	0.01	0.02	0.21	0.23	0.01	0.19	0.20	696.10
Paving Worker Trips	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Fine Grading 11/30/2008-01/11/2009	4.51	35.82	20.25	0.00	46.17	1.93	48.10	9.64	1.77	11.41	3,139.56
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine 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
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	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Time Slice 1/12/2009-8/7/2009 Active Days: 150	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75

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Time Slice 8/10/2009-8/21/2009 Active Days: 10	<u>523.81</u>	35.62	<u>145.62</u>	<u>0.08</u>	0.45	1.84	2.29	0.16	1.66	1.83	<u>10,835.18</u>
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Time Slice 8/24/2009-9/4/2009 Active Days: 10	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

Construction Emissions: Mitigated

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: L:\ESP\Santa Cruz Co\07-60620 Scotts V Town Ctr SP & EIR\Other\Air Quality Data\Scott's Valley AQ.urb924

Project Name: Scotts Valley AQ

Project Location: Santa Cruz County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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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>
2008 TOTALS (lbs/day unmitigated)	10.84	63.07	34.97	0.01	203.64	3.90	207.54	42.53	3.59	46.12	5,240.43
2008 TOTALS (lbs/day mitigated)	10.84	63.07	34.97	0.01	46.20	3.90	50.10	9.65	3.59	13.24	5,240.43
2009 TOTALS (lbs/day unmitigated)	523.81	59.66	145.62	0.08	203.64	3.69	207.33	42.53	3.39	45.92	10,835.18
2009 TOTALS (lbs/day mitigated)	523.81	59.66	145.62	0.08	46.20	3.69	49.89	9.65	3.39	13.05	10,835.18

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	68.79	10.39	234.40	0.70	36.86	35.48	13,588.20

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	119.29	143.45	1,235.88	0.51	100.28	19.60	53,552.49
TOTALS (lbs/day, mitigated)	68.84	82.93	712.52	0.30	58.48	11.44	31,219.17
Percent Reduction	42.29	42.19	42.35	41.18	41.68	41.63	41.70

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	188.08	153.84	1,470.28	1.21	137.14	55.08	67,140.69

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

Construction Unmitigated Detail Report:

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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>
Time Slice 12/1/2008-12/26/2008 Active Days: 20	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading 11/30/2008- 01/11/2009	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Time Slice 12/29/2008-12/31/2008 Active Days: 3	<u>10.84</u>	<u>63.07</u>	<u>34.97</u>	<u>0.01</u>	<u>203.64</u>	<u>3.90</u>	<u>207.54</u>	<u>42.53</u>	<u>3.59</u>	<u>46.12</u>	<u>5,240.43</u>
Asphalt 12/28/2008-01/11/2009	6.12	25.15	13.83	0.01	0.03	1.87	1.90	0.01	1.72	1.73	2,100.73
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.21	18.89	9.61	0.00	0.00	1.63	1.63	0.00	1.50	1.50	1,272.41
Paving On Road Diesel	0.39	6.07	2.01	0.01	0.02	0.23	0.25	0.01	0.21	0.22	696.10
Paving Worker Trips	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Fine Grading 11/30/2008- 01/11/2009	4.72	37.92	21.14	0.00	203.61	2.03	205.64	42.52	1.87	44.39	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22

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Time Slice 1/1/2009-1/9/2009 Active Days: 7	10.41	<u>59.66</u>	33.66	0.01	<u>203.64</u>	<u>3.69</u>	<u>207.33</u>	<u>42.53</u>	<u>3.39</u>	<u>45.92</u>	5,240.16
Asphalt 12/28/2008-01/11/2009	5.90	23.84	13.41	0.01	0.03	1.76	1.79	0.01	1.62	1.63	2,100.60
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.02	17.99	9.48	0.00	0.00	1.55	1.55	0.00	1.43	1.43	1,272.41
Paving On Road Diesel	0.36	5.67	1.84	0.01	0.02	0.21	0.23	0.01	0.19	0.20	696.10
Paving Worker Trips	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Fine Grading 11/30/2008-01/11/2009	4.51	35.82	20.25	0.00	203.61	1.93	205.53	42.52	1.77	44.29	3,139.56
Fine Grading Dust	0.00	0.00	0.00	0.00	203.60	0.00	203.60	42.52	0.00	42.52	0.00
Fine 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
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	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Time Slice 1/12/2009-8/7/2009 Active Days: 150	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75

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Time Slice 8/10/2009-8/21/2009	<u>523.81</u>	35.62	<u>145.62</u>	<u>0.08</u>	0.45	1.84	2.29	0.16	1.66	1.83	<u>10,835.18</u>
Active Days: 10											
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Time Slice 8/24/2009-9/4/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Active Days: 10											
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02

Phase Assumptions

Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

Total Acres Disturbed: 40.74

Maximum Daily Acreage Disturbed: 10.18

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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Phase: Paving 12/28/2008 - 1/11/2009 - Default Paving Description

Acres to be Paved: 10.18

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 1/11/2009 - 8/22/2009 - 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 8/8/2009 - 9/5/2009 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 100
- 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

ROG NOx CO SO2 PM10 Dust PM10 Exhaust PM10 PM2.5 Dust PM2.5 Exhaust PM2.5 CO2

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Time Slice 12/1/2008-12/26/2008	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Active Days: 20											
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Time Slice 12/29/2008-12/31/2008	<u>10.84</u>	<u>63.07</u>	<u>34.97</u>	<u>0.01</u>	<u>46.20</u>	<u>3.90</u>	<u>50.10</u>	<u>9.65</u>	<u>3.59</u>	<u>13.24</u>	<u>5,240.43</u>
Active Days: 3											
Asphalt 12/28/2008-01/11/2009	6.12	25.15	13.83	0.01	0.03	1.87	1.90	0.01	1.72	1.73	2,100.73
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.21	18.89	9.61	0.00	0.00	1.63	1.63	0.00	1.50	1.50	1,272.41
Paving On Road Diesel	0.39	6.07	2.01	0.01	0.02	0.23	0.25	0.01	0.21	0.22	696.10
Paving Worker Trips	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22
Fine Grading 11/30/2008-01/11/2009	4.72	37.92	21.14	0.00	46.17	2.03	48.21	9.64	1.87	11.52	3,139.70
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine Grading Off Road Diesel	4.62	37.73	18.93	0.00	0.00	2.03	2.03	0.00	1.87	1.87	3,007.48
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	0.10	0.19	2.21	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.22

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Time Slice 1/1/2009-1/9/2009 Active Days: 7	10.41	<u>59.66</u>	33.66	0.01	<u>46.20</u>	<u>3.69</u>	<u>49.89</u>	<u>9.65</u>	<u>3.39</u>	<u>13.05</u>	5,240.16
Asphalt 12/28/2008-01/11/2009	5.90	23.84	13.41	0.01	0.03	1.76	1.79	0.01	1.62	1.63	2,100.60
Paving Off-Gas	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	3.02	17.99	9.48	0.00	0.00	1.55	1.55	0.00	1.43	1.43	1,272.41
Paving On Road Diesel	0.36	5.67	1.84	0.01	0.02	0.21	0.23	0.01	0.19	0.20	696.10
Paving Worker Trips	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Fine Grading 11/30/2008-01/11/2009	4.51	35.82	20.25	0.00	46.17	1.93	48.10	9.64	1.77	11.41	3,139.56
Fine Grading Dust	0.00	0.00	0.00	0.00	46.17	0.00	46.17	9.64	0.00	9.64	0.00
Fine 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
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	0.09	0.17	2.09	0.00	0.01	0.00	0.01	0.00	0.00	0.01	132.09
Time Slice 1/12/2009-8/7/2009 Active Days: 150	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75

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Time Slice 8/10/2009-8/21/2009 Active Days: 10	<u>523.81</u>	35.62	<u>145.62</u>	<u>0.08</u>	0.45	1.84	2.29	0.16	1.66	1.83	<u>10,835.18</u>
Building 01/11/2009-08/22/2009	9.61	34.53	132.61	0.08	0.41	1.81	2.22	0.15	1.64	1.79	10,012.16
Building Off Road Diesel	4.02	18.66	12.06	0.00	0.00	1.33	1.33	0.00	1.23	1.23	1,746.33
Building Vendor Trips	0.55	6.24	5.48	0.01	0.04	0.23	0.26	0.01	0.21	0.22	987.08
Building Worker Trips	5.04	9.63	115.07	0.07	0.38	0.25	0.62	0.14	0.21	0.34	7,278.75
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Time Slice 8/24/2009-9/4/2009 Active Days: 10	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Coating 08/08/2009-09/05/2009	514.20	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02
Architectural Coating	513.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.57	1.09	13.01	0.01	0.04	0.03	0.07	0.02	0.02	0.04	823.02

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 11/30/2008 - 1/11/2009 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by:

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by:

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

For Soil Stabilizing Measures, the Equipment loading/unloading mitigation reduces emissions by:

PM10: 69% PM25: 69%

Cumulative Projects

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Urbemis 2007 Version 9.2.4

Summary Report for Summer Emissions (Pounds/Day)

File Name:

Project Name: Scotts CO2

Project Location: Monterey Bay Air District

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>
2007 TOTALS (lbs/day unmitigated)	15.27	83.97	45.53	0.01	347.86	5.21	353.06	72.65	4.79	77.44	6,742.92
2008 TOTALS (lbs/day unmitigated)	766.05	123.76	177.42	0.09	348.24	7.47	355.71	72.79	6.85	79.64	16,819.53

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	24.84	7.54	16.74	0.00	0.04	0.04	9,174.29

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	171.37	239.86	1,893.84	0.97	187.08	37.63	103,486.49

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	196.21	247.40	1,910.58	0.97	187.12	37.67	112,660.78

Cumulative Projects

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Urbemis 2007 Version 9.2.4

Summary Report for Winter Emissions (Pounds/Day)

File Name:

Project Name: Scotts CO2

Project Location: Monterey Bay Air District

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>
2007 TOTALS (lbs/day unmitigated)	15.27	83.97	45.53	0.01	347.86	5.21	353.06	72.65	4.79	77.44	6,742.92
2008 TOTALS (lbs/day unmitigated)	766.05	123.76	177.42	0.09	348.24	7.47	355.71	72.79	6.85	79.64	16,819.53

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	87.13	14.04	295.06	0.89	46.33	44.60	18,313.07

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	204.43	293.37	2,228.90	0.98	187.08	37.63	102,176.12

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	291.56	307.41	2,523.96	1.87	233.41	82.23	120,489.19

Cumulative Projects

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Urbemis 2007 Version 9.2.4

Summary Report for Annual Emissions (Tons/Year)

File Name:

Project Name: Scotts CO2

Project Location: Monterey Bay Air District

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>
2007 TOTALS (tons/year unmitigated)	0.08	0.61	0.34	0.00	3.83	0.04	3.86	0.80	0.03	0.83	48.23
2008 TOTALS (tons/year unmitigated)	8.83	3.95	11.16	0.01	1.60	0.23	1.82	0.34	0.21	0.54	854.70

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	7.01	1.58	13.83	0.04	1.89	1.82	1,979.36

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	33.29	47.03	366.02	0.19	34.14	6.86	18,806.57

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SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	40.30	48.61	379.85	0.23	36.03	8.68	20,785.93