

Combined Summer Emissions Reports (Pounds/Day)

File Name: Z:\Alan Sako\112.24 Vista Canyon\AQ\Emissions\Construction\Phase 1\Vista Canyon Construction Phase 1.urb924

Project Name: Vista Canyon Ranch Development Project - Construction Phase 1

Project Location: South Coast AQMD

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>
2012 TOTALS (lbs/day unmitigated)	151.87	816.95	445.32	0.18	1,874.33	35.64	1,909.96	391.54	32.76	424.30
2012 TOTALS (lbs/day mitigated)	151.87	816.95	445.32	0.18	115.31	35.64	150.95	24.19	32.76	56.95

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>
Time Slice 1/2/2012-1/31/2012 Active Days: 22	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 2/1/2012-2/29/2012 Active Days: 21	89.41	785.12	371.45	0.08	1,873.88	33.29	1,907.17	391.38	30.62	422.00
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Trenching 02/01/2012-02/29/2012	1.83	15.29	8.92	0.00	0.01	0.74	0.74	0.00	0.68	0.68
Trenching Off Road Diesel	1.80	15.24	8.01	0.00	0.00	0.73	0.73	0.00	0.67	0.67
Trenching Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Time Slice 3/1/2012-8/31/2012 Active Days: 132	93.43	801.51	432.08	0.18	1,874.30	34.35	1,908.64	391.53	31.58	423.11
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26

Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 9/3/2012-11/30/2012 Active Days: 65	149.15	801.63	434.18	0.18	1,874.31	34.36	1,908.67	391.53	31.59	423.12
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Coating 09/01/2012-12/31/2012	55.72	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
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Time Slice 12/3/2012-12/31/2012 Active Days: 21	<u>151.87</u>	<u>816.95</u>	<u>445.32</u>	<u>0.18</u>	<u>1,874.33</u>	<u>35.64</u>	<u>1,909.96</u>	<u>391.54</u>	<u>32.76</u>	<u>424.30</u>
Asphalt 12/01/2012-12/31/2012	2.72	15.32	11.14	0.00	0.02	1.28	1.30	0.01	1.18	1.18
Paving Off-Gas	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.35	8.99	0.00	0.00	1.24	1.24	0.00	1.14	1.14
Paving On Road Diesel	0.07	0.87	0.33	0.00	0.00	0.03	0.04	0.00	0.03	0.03
Paving Worker Trips	0.05	0.10	1.82	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
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Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
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Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
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Phase Assumptions

Phase: Mass Grading 1/1/2012 - 12/31/2012 - Type Your Description Here

Total Acres Disturbed: 185.3

Maximum Daily Acreage Disturbed: 46.3

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 11954.02 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 1335.88

Off-Road Equipment:

- 1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 8 hours per day
- 10 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 5 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
- 3 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 6 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 29 Scrapers (313 hp) operating at a 0.72 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
- 14 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 2/1/2012 - 2/29/2012 - Default Paving Description

Off-Road Equipment:

- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2012 - 12/31/2012 - Default Building Construction Description

Acres to be Paved: 2.13

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
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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

Phase: Building Construction 3/1/2012 - 12/31/2012 - Default Mass Site Grading/Excavation Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 9/1/2012 - 12/31/2012 - Default Architectural Coating Description
 Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
 Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
 Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
 Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
 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

	<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>
Time Slice 1/2/2012-1/31/2012 Active Days: 22	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 2/1/2012-2/29/2012 Active Days: 21	89.41	785.12	371.45	0.08	114.87	33.29	148.16	24.03	30.62	54.65
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
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Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Trenching 02/01/2012-02/29/2012	1.83	15.29	8.92	0.00	0.01	0.74	0.74	0.00	0.68	0.68
Trenching Off Road Diesel	1.80	15.24	8.01	0.00	0.00	0.73	0.73	0.00	0.67	0.67
Trenching Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.00
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Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57

Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
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Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
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Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
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Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
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Asphalt 12/01/2012-12/31/2012	2.72	15.32	11.14	0.00	0.02	1.28	1.30	0.01	1.18	1.18
Paving Off-Gas	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.35	8.99	0.00	0.00	1.24	1.24	0.00	1.14	1.14
Paving On Road Diesel	0.07	0.87	0.33	0.00	0.00	0.03	0.04	0.00	0.03	0.03
Paving Worker Trips	0.05	0.10	1.82	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
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Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
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Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
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Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/1/2012 - 12/31/2012 - Type Your Description Here

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

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

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

PM10: 69% PM25: 69%

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 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: Z:\Alan Sako\112.24 Vista Canyon\AQ\Emissions\Construction\Phase 1\Vista Canyon Construction Phase 1.urb924

Project Name: Vista Canyon Ranch Development Project - Construction Phase 1

Project Location: South Coast AQMD

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>
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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>
Time Slice 1/2/2012-1/31/2012 Active Days: 22	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 2/1/2012-2/29/2012 Active Days: 21	89.41	785.12	371.45	0.08	1,873.88	33.29	1,907.17	391.38	30.62	422.00
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Trenching 02/01/2012-02/29/2012	1.83	15.29	8.92	0.00	0.01	0.74	0.74	0.00	0.68	0.68
Trenching Off Road Diesel	1.80	15.24	8.01	0.00	0.00	0.73	0.73	0.00	0.67	0.67
Trenching Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Time Slice 3/1/2012-8/31/2012 Active Days: 132	93.43	801.51	432.08	0.18	1,874.30	34.35	1,908.64	391.53	31.58	423.11
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26

Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 9/3/2012-11/30/2012 Active Days: 65	149.15	801.63	434.18	0.18	1,874.31	34.36	1,908.67	391.53	31.59	423.12
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Coating 09/01/2012-12/31/2012	55.72	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 12/3/2012-12/31/2012 Active Days: 21	<u>151.87</u>	<u>816.95</u>	<u>445.32</u>	<u>0.18</u>	<u>1,874.33</u>	<u>35.64</u>	<u>1,909.96</u>	<u>391.54</u>	<u>32.76</u>	<u>424.30</u>
Asphalt 12/01/2012-12/31/2012	2.72	15.32	11.14	0.00	0.02	1.28	1.30	0.01	1.18	1.18
Paving Off-Gas	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.35	8.99	0.00	0.00	1.24	1.24	0.00	1.14	1.14
Paving On Road Diesel	0.07	0.87	0.33	0.00	0.00	0.03	0.04	0.00	0.03	0.03
Paving Worker Trips	0.05	0.10	1.82	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Coating 09/01/2012-12/31/2012	55.72	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	1,873.88	32.55	1,906.43	391.38	29.94	421.32
Mass Grading Dust	0.00	0.00	0.00	0.00	1,873.57	0.00	1,873.57	391.28	0.00	391.28
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10

Phase Assumptions

Phase: Mass Grading 1/1/2012 - 12/31/2012 - Type Your Description Here

Total Acres Disturbed: 185.3

Maximum Daily Acreage Disturbed: 46.3

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 11954.02 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 1335.88

Off-Road Equipment:

- 1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day
- 1 Cranes (399 hp) operating at a 0.43 load factor for 8 hours per day
- 10 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 5 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
- 3 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 6 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
- 29 Scrapers (313 hp) operating at a 0.72 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
- 14 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 2/1/2012 - 2/29/2012 - Default Paving Description

Off-Road Equipment:

- 2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2012 - 12/31/2012 - Default Building Construction Description

Acres to be Paved: 2.13

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
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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

Phase: Building Construction 3/1/2012 - 12/31/2012 - Default Mass Site Grading/Excavation Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
 2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 9/1/2012 - 12/31/2012 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

	<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>
Time Slice 1/2/2012-1/31/2012 Active Days: 22	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 2/1/2012-2/29/2012 Active Days: 21	89.41	785.12	371.45	0.08	114.87	33.29	148.16	24.03	30.62	54.65
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Trenching 02/01/2012-02/29/2012	1.83	15.29	8.92	0.00	0.01	0.74	0.74	0.00	0.68	0.68
Trenching Off Road Diesel	1.80	15.24	8.01	0.00	0.00	0.73	0.73	0.00	0.67	0.67
Trenching Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.00
Time Slice 3/1/2012-8/31/2012 Active Days: 132	93.43	801.51	432.08	0.18	115.28	34.35	149.63	24.18	31.58	55.76
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57

Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 9/3/2012-11/30/2012 Active Days: 65	149.15	801.63	434.18	0.18	115.30	34.36	149.65	24.18	31.59	55.77
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Coating 09/01/2012-12/31/2012	55.72	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10
Time Slice 12/3/2012-12/31/2012 Active Days: 21	<u>151.87</u>	<u>816.95</u>	<u>445.32</u>	<u>0.18</u>	<u>115.31</u>	<u>35.64</u>	<u>150.95</u>	<u>24.19</u>	<u>32.76</u>	<u>56.95</u>
Asphalt 12/01/2012-12/31/2012	2.72	15.32	11.14	0.00	0.02	1.28	1.30	0.01	1.18	1.18
Paving Off-Gas	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.34	14.35	8.99	0.00	0.00	1.24	1.24	0.00	1.14	1.14
Paving On Road Diesel	0.07	0.87	0.33	0.00	0.00	0.03	0.04	0.00	0.03	0.03
Paving Worker Trips	0.05	0.10	1.82	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 03/01/2012-12/31/2012	5.85	31.69	69.54	0.10	0.42	1.79	2.22	0.15	1.63	1.78
Building Off Road Diesel	3.14	14.81	10.52	0.00	0.00	1.04	1.04	0.00	0.95	0.95
Building Vendor Trips	1.29	14.17	11.66	0.03	0.11	0.58	0.69	0.04	0.53	0.57
Building Worker Trips	1.43	2.70	47.36	0.07	0.31	0.18	0.48	0.11	0.15	0.26
Coating 09/01/2012-12/31/2012	55.72	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.06	0.12	2.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Mass Grading 01/01/2012-12/31/2012	87.58	769.83	362.54	0.08	114.86	32.55	147.42	24.03	29.94	53.97
Mass Grading Dust	0.00	0.00	0.00	0.00	114.56	0.00	114.56	23.92	0.00	23.92
Mass Grading Off Road Diesel	84.36	735.48	332.19	0.00	0.00	31.17	31.17	0.00	28.68	28.68
Mass Grading On Road Diesel	2.69	33.35	12.88	0.05	0.19	1.32	1.50	0.06	1.21	1.27
Mass Grading Worker Trips	0.53	1.00	17.47	0.03	0.11	0.07	0.18	0.04	0.05	0.10

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/1/2012 - 12/31/2012 - Type Your Description Here

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

PM10: 84% PM25: 84%

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

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

PM10: 69% PM25: 69%

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 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

Combined Summer Emissions Reports (Pounds/Day)

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	2.10	12.84	8.03	0.00	0.00	1.09	1.09	0.00	1.00	1.00
Paving On Road Diesel	0.18	2.20	0.85	0.00	0.01	0.08	0.10	0.00	0.08	0.08
Paving Worker Trips	0.05	0.09	1.69	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2013-12/31/2013	7.62	52.49	64.54	0.08	0.34	2.36	2.70	0.12	2.16	2.28
Building Off Road Diesel	5.73	42.24	19.41	0.00	0.00	1.88	1.88	0.00	1.73	1.73
Building Vendor Trips	0.76	8.10	6.95	0.02	0.07	0.33	0.40	0.03	0.30	0.33
Building Worker Trips	1.13	2.14	38.18	0.06	0.27	0.15	0.42	0.10	0.13	0.23
Coating 08/01/2013-12/31/2013	36.13	0.07	1.26	0.00	0.01	0.01	0.01	0.00	0.00	0.01
Architectural Coating	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.26	0.00	0.01	0.01	0.01	0.00	0.00	0.01

Phase Assumptions

Phase: Trenching 1/1/2013 - 1/31/2013 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2013 - 12/31/2013 - Default Paving Description

Acres to be Paved: 6.4

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

Phase: Building Construction 2/1/2013 - 12/31/2013 - Default Building Construction Description

Off-Road Equipment:

3 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

2 Other General Industrial Equipment (238 hp) operating at a 0.51 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 8/1/2013 - 12/31/2013 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

Combined Winter Emissions Reports (Pounds/Day)

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	2.10	12.84	8.03	0.00	0.00	1.09	1.09	0.00	1.00	1.00
Paving On Road Diesel	0.18	2.20	0.85	0.00	0.01	0.08	0.10	0.00	0.08	0.08
Paving Worker Trips	0.05	0.09	1.69	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2013-12/31/2013	7.62	52.49	64.54	0.08	0.34	2.36	2.70	0.12	2.16	2.28
Building Off Road Diesel	5.73	42.24	19.41	0.00	0.00	1.88	1.88	0.00	1.73	1.73
Building Vendor Trips	0.76	8.10	6.95	0.02	0.07	0.33	0.40	0.03	0.30	0.33
Building Worker Trips	1.13	2.14	38.18	0.06	0.27	0.15	0.42	0.10	0.13	0.23
Coating 08/01/2013-12/31/2013	36.13	0.07	1.26	0.00	0.01	0.01	0.01	0.00	0.00	0.01
Architectural Coating	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.26	0.00	0.01	0.01	0.01	0.00	0.00	0.01

Phase Assumptions

Phase: Trenching 1/1/2013 - 1/31/2013 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2013 - 12/31/2013 - Default Paving Description

Acres to be Paved: 6.4

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

Phase: Building Construction 2/1/2013 - 12/31/2013 - Default Building Construction Description

Off-Road Equipment:

3 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 hours per day

1 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

2 Other General Industrial Equipment (238 hp) operating at a 0.51 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 8/1/2013 - 12/31/2013 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

Combined Summer Emissions Reports (Pounds/Day)

Project Name: Vista Canyon Ranch Development Project - Construction Phase 3

Project Location: South Coast AQMD

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>
2014 TOTALS (lbs/day unmitigated)	64.57	31.44	39.34	0.04	0.16	2.23	2.39	0.06	2.04	2.10

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	2.34	14.56	9.90	0.00	0.00	1.21	1.21	0.00	1.11	1.11
Paving On Road Diesel	0.08	0.94	0.37	0.00	0.01	0.04	0.04	0.00	0.03	0.04
Paving Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2014-12/31/2014	3.26	15.80	26.77	0.03	0.13	0.98	1.11	0.05	0.89	0.94
Building Off Road Diesel	2.63	12.97	9.89	0.00	0.00	0.82	0.82	0.00	0.76	0.76
Building Vendor Trips	0.20	2.00	1.92	0.01	0.02	0.08	0.10	0.01	0.07	0.08
Building Worker Trips	0.43	0.83	14.96	0.02	0.11	0.07	0.18	0.04	0.06	0.10
Coating 08/01/2014-12/31/2014	58.48	0.03	0.54	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Architectural Coating	58.46	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	0.54	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Phase Assumptions

Phase: Trenching 1/1/2014 - 1/31/2014 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2014 - 12/31/2014 - Default Paving Description

Acres to be Paved: 3.13

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

Phase: Building Construction 2/1/2014 - 12/31/2014 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 8/1/2014 - 12/31/2014 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

Combined Winter Emissions Reports (Pounds/Day)

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	2.34	14.56	9.90	0.00	0.00	1.21	1.21	0.00	1.11	1.11
Paving On Road Diesel	0.08	0.94	0.37	0.00	0.01	0.04	0.04	0.00	0.03	0.04
Paving Worker Trips	0.05	0.10	1.77	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2014-12/31/2014	3.26	15.80	26.77	0.03	0.13	0.98	1.11	0.05	0.89	0.94
Building Off Road Diesel	2.63	12.97	9.89	0.00	0.00	0.82	0.82	0.00	0.76	0.76
Building Vendor Trips	0.20	2.00	1.92	0.01	0.02	0.08	0.10	0.01	0.07	0.08
Building Worker Trips	0.43	0.83	14.96	0.02	0.11	0.07	0.18	0.04	0.06	0.10
Coating 08/01/2014-12/31/2014	58.48	0.03	0.54	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Architectural Coating	58.46	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	0.54	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Phase Assumptions

Phase: Trenching 1/1/2014 - 1/31/2014 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2014 - 12/31/2014 - Default Paving Description

Acres to be Paved: 3.13

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

Phase: Building Construction 2/1/2014 - 12/31/2014 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day

2 Forklifts (145 hp) operating at a 0.3 load factor for 6 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 8/1/2014 - 12/31/2014 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

Combined Summer Emissions Reports (Pounds/Day)

Project Name: Vista Canyon Ranch Development Project - Construction Phase 4

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	1.93	12.07	8.78	0.00	0.00	0.98	0.98	0.00	0.90	0.90
Paving On Road Diesel	0.05	0.56	0.22	0.00	0.00	0.02	0.03	0.00	0.02	0.02
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2015-12/31/2015	4.34	20.04	63.30	0.10	0.45	1.23	1.67	0.16	1.11	1.27
Building Off Road Diesel	2.50	12.84	10.05	0.00	0.00	0.80	0.80	0.00	0.73	0.73
Building Vendor Trips	0.46	4.55	4.60	0.02	0.06	0.19	0.24	0.02	0.17	0.19
Building Worker Trips	1.38	2.65	48.64	0.09	0.39	0.25	0.64	0.14	0.21	0.35
Coating 08/01/2015-12/31/2015	150.57	0.07	1.29	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	150.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.29	0.00	0.01	0.01	0.02	0.00	0.01	0.01

Phase Assumptions

Phase: Trenching 1/1/2015 - 1/31/2015 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2015 - 12/31/2015 - Default Paving Description

Acres to be Paved: 2.13

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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

Phase: Building Construction 2/1/2015 - 12/31/2015 - 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 8/1/2015 - 12/31/2015 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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

Combined Winter Emissions Reports (Pounds/Day)

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

[illegible]

Paving Off Road Diesel	1.93	12.07	8.78	0.00	0.00	0.98	0.98	0.00	0.90	0.90
Paving On Road Diesel	0.05	0.56	0.22	0.00	0.00	0.02	0.03	0.00	0.02	0.02
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Building 02/01/2015-12/31/2015	4.34	20.04	63.30	0.10	0.45	1.23	1.67	0.16	1.11	1.27
Building Off Road Diesel	2.50	12.84	10.05	0.00	0.00	0.80	0.80	0.00	0.73	0.73
Building Vendor Trips	0.46	4.55	4.60	0.02	0.06	0.19	0.24	0.02	0.17	0.19
Building Worker Trips	1.38	2.65	48.64	0.09	0.39	0.25	0.64	0.14	0.21	0.35
Coating 08/01/2015-12/31/2015	150.57	0.07	1.29	0.00	0.01	0.01	0.02	0.00	0.01	0.01
Architectural Coating	150.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.04	0.07	1.29	0.00	0.01	0.01	0.02	0.00	0.01	0.01

Phase Assumptions

Phase: Trenching 1/1/2015 - 1/31/2015 - Default Trenching Description

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

1 Other General Industrial Equipment (238 hp) operating at a 0.51 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Paving 12/1/2015 - 12/31/2015 - Default Paving Description

Acres to be Paved: 2.13

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

1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 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

Phase: Building Construction 2/1/2015 - 12/31/2015 - 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 8/1/2015 - 12/31/2015 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

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