

Appendix C

Air Quality Modeling

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name:

Project Name: Warner Center 2008 Operations

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:

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)	90.19	29.21	31.62	0.02	1.50	1.45	35,903.84

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)	558.83	783.25	6,577.81	5.35	923.79	180.43	534,337.23

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)	649.02	812.46	6,609.43	5.37	925.29	181.88	570,241.07

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	2.16	29.07	19.82	0.00	0.05	0.05	35,738.55
Hearth	9.62	0.13	10.59	0.02	1.45	1.40	163.28
Landscape	0.10	0.01	1.21	0.00	0.00	0.00	2.01
Consumer Products	58.05						
Architectural Coatings	20.26						
TOTALS (tons/year, unmitigated)	90.19	29.21	31.62	0.02	1.50	1.45	35,903.84

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 95%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	74.41	96.69	831.70	0.66	113.91	22.27	66,263.13
Regnl shop. center	226.33	330.33	2,733.16	2.24	388.26	75.80	223,885.40
General office building	216.11	299.79	2,532.41	2.06	354.68	69.28	205,366.41
General light industry	41.98	56.44	480.54	0.39	66.94	13.08	38,822.29
TOTALS (tons/year, unmitigated)	558.83	783.25	6,577.81	5.35	923.79	180.43	534,337.23

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2008 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	163.16	5.76	dwelling units	6,200.00	35,712.00	360,791.21
Regnl shop. center		42.94	1000 sq ft	3,193.00	137,107.42	1,230,264.79
General office building		11.01	1000 sq ft	10,028.00	110,408.28	1,123,680.28
General light industry		6.97	1000 sq ft	2,837.00	19,773.89	212,074.96
					303,001.59	2,926,811.24

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.6	1.7	97.9	0.4
Light Truck < 3750 lbs	7.4	4.1	91.8	4.1
Light Truck 3751-5750 lbs	22.9	0.9	99.1	0.0
Med Truck 5751-8500 lbs	10.6	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Motorcycle	2.8	78.6	21.4	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	11.1	77.8	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name:

Project Name: Warner Center 2008 Operations

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:

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)	441.47	159.38	115.28	0.00	0.31	0.31	195,838.70

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)	2,956.84	4,013.99	36,417.71	31.00	5,061.86	988.61	3,021,643.96

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)	3,398.31	4,173.37	36,532.99	31.00	5,062.17	988.92	3,217,482.66

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	11.85	159.31	108.63	0.00	0.29	0.29	195,827.70
Hearth - No Summer Emissions							
Landscape	0.55	0.07	6.65	0.00	0.02	0.02	11.00
Consumer Products	318.06						
Architectural Coatings	111.01						
TOTALS (lbs/day, unmitigated)	441.47	159.38	115.28	0.00	0.31	0.31	195,838.70

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 95%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	400.19	495.43	4,608.48	3.85	624.14	122.01	374,644.60
Regnl shop. center	1,186.14	1,693.21	15,105.50	12.98	2,127.46	415.32	1,266,184.35
General office building	1,146.17	1,536.17	14,037.20	11.92	1,943.45	379.61	1,161,295.72
General light industry	224.34	289.18	2,666.53	2.25	366.81	71.67	219,519.29
TOTALS (lbs/day, unmitigated)	2,956.84	4,013.99	36,417.71	31.00	5,061.86	988.61	3,021,643.96

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2008 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	163.16	5.76	dwelling units	6,200.00	35,712.00	360,791.21
Regnl shop. center		42.94	1000 sq ft	3,193.00	137,107.42	1,230,264.79
General office building		11.01	1000 sq ft	10,028.00	110,408.28	1,123,680.28
General light industry		6.97	1000 sq ft	2,837.00	19,773.89	212,074.96
					303,001.59	2,926,811.24

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.6	1.7	97.9	0.4
Light Truck < 3750 lbs	7.4	4.1	91.8	4.1
Light Truck 3751-5750 lbs	22.9	0.9	99.1	0.0
Med Truck 5751-8500 lbs	10.6	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Motorcycle	2.8	78.6	21.4	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	11.1	77.8	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name:

Project Name: Warner Center 2008 Operations

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:

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)	1,210.60	200.60	969.38	1.55	118.93	114.54	248,803.39

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)	3,272.64	4,847.26	35,292.93	25.88	5,061.86	988.61	2,740,337.69

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)	4,483.24	5,047.86	36,262.31	27.43	5,180.79	1,103.15	2,989,141.08

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	11.85	159.31	108.63	0.00	0.29	0.29	195,827.70
Hearth	769.68	41.29	860.75	1.55	118.64	114.25	52,975.69
Landscaping - No Winter Emissions							
Consumer Products	318.06						
Architectural Coatings	111.01						
TOTALS (lbs/day, unmitigated)	1,210.60	200.60	969.38	1.55	118.93	114.54	248,803.39

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 95%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	422.79	598.51	4,454.76	3.22	624.14	122.01	339,967.67
Regnl shop. center	1,348.22	2,043.60	14,717.68	10.83	2,127.46	415.32	1,147,939.21
General office building	1,260.19	1,855.70	13,554.33	9.95	1,943.45	379.61	1,053,294.80
General light industry	241.44	349.45	2,566.16	1.88	366.81	71.67	199,136.01
TOTALS (lbs/day, unmitigated)	3,272.64	4,847.26	35,292.93	25.88	5,061.86	988.61	2,740,337.69

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2008 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	163.16	5.76	dwelling units	6,200.00	35,712.00	360,791.21
Regnl shop. center		42.94	1000 sq ft	3,193.00	137,107.42	1,230,264.79
General office building		11.01	1000 sq ft	10,028.00	110,408.28	1,123,680.28
General light industry		6.97	1000 sq ft	2,837.00	19,773.89	212,074.96
					303,001.59	2,926,811.24

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	51.6	1.7	97.9	0.4
Light Truck < 3750 lbs	7.4	4.1	91.8	4.1
Light Truck 3751-5750 lbs	22.9	0.9	99.1	0.0
Med Truck 5751-8500 lbs	10.6	0.9	99.1	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	81.2	18.8
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.5	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Motorcycle	2.8	78.6	21.4	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	11.1	77.8	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Warner Center.urb924

Project Name: Warner Center

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>	<u>CO2</u>
2015 TOTALS (tons/year unmitigated)	0.46	2.80	4.29	0.01	6.69	0.15	6.84	1.40	0.14	1.54	841.38
2015 TOTALS (tons/year mitigated)	0.46	2.80	4.29	0.01	2.64	0.15	2.80	0.56	0.14	0.69	841.38
Percent Reduction	0.00	0.00	0.00	0.00	60.48	0.00	59.14	60.33	0.00	54.90	0.00
2016 TOTALS (tons/year unmitigated)	5.24	0.74	1.97	0.00	0.02	0.04	0.06	0.01	0.04	0.04	404.68
2016 TOTALS (tons/year mitigated)	5.24	0.74	1.97	0.00	0.02	0.04	0.06	0.01	0.04	0.04	404.68
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, 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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Asphalt 06/29/2015-07/10/2015	0.02	0.08	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	11.95
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.66
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Building 07/13/2015-04/15/2016	0.26	1.32	3.30	0.01	0.02	0.08	0.10	0.01	0.07	0.08	640.28
Building Off Road Diesel	0.15	0.75	0.60	0.00	0.00	0.05	0.05	0.00	0.04	0.04	100.51
Building Vendor Trips	0.05	0.45	0.44	0.00	0.01	0.02	0.02	0.00	0.02	0.02	154.04
Building Worker Trips	0.06	0.12	2.27	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.73
2016	5.24	0.74	1.97	0.00	0.02	0.04	0.06	0.01	0.04	0.04	404.68
Building 07/13/2015-04/15/2016	0.14	0.74	1.90	0.00	0.01	0.04	0.06	0.01	0.04	0.04	392.40
Building Off Road Diesel	0.08	0.43	0.36	0.00	0.00	0.03	0.03	0.00	0.02	0.02	61.61
Building Vendor Trips	0.03	0.24	0.25	0.00	0.00	0.01	0.01	0.00	0.01	0.01	94.41
Building Worker Trips	0.04	0.07	1.30	0.00	0.01	0.01	0.02	0.00	0.01	0.01	236.38
Coating 04/18/2016-05/06/2016	5.09	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.28
Architectural Coating	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.28

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

Building Volume Total (cubic feet): 1083000

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

Phase: Trenching 6/15/2015 - 6/26/2015 - Default Trenching Description

Off-Road Equipment:

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

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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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 6.64

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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:

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Asphalt 06/29/2015-07/10/2015	0.02	0.08	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	11.95
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.66
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Building 07/13/2015-04/15/2016	0.26	1.32	3.30	0.01	0.02	0.08	0.10	0.01	0.07	0.08	640.28
Building Off Road Diesel	0.15	0.75	0.60	0.00	0.00	0.05	0.05	0.00	0.04	0.04	100.51
Building Vendor Trips	0.05	0.45	0.44	0.00	0.01	0.02	0.02	0.00	0.02	0.02	154.04
Building Worker Trips	0.06	0.12	2.27	0.00	0.02	0.01	0.03	0.01	0.01	0.02	385.73
2016	5.24	0.74	1.97	0.00	0.02	0.04	0.06	0.01	0.04	0.04	404.68
Building 07/13/2015-04/15/2016	0.14	0.74	1.90	0.00	0.01	0.04	0.06	0.01	0.04	0.04	392.40
Building Off Road Diesel	0.08	0.43	0.36	0.00	0.00	0.03	0.03	0.00	0.02	0.02	61.61
Building Vendor Trips	0.03	0.24	0.25	0.00	0.00	0.01	0.01	0.00	0.01	0.01	94.41
Building Worker Trips	0.04	0.07	1.30	0.00	0.01	0.01	0.02	0.00	0.01	0.01	236.38
Coating 04/18/2016-05/06/2016	5.09	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.28
Architectural Coating	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.28

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

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PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Warner Center.urb924

Project Name: Warner Center

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>	<u>CO2</u>
2015 TOTALS (lbs/day unmitigated)	4.17	23.76	53.26	0.09	132.81	1.24	133.97	27.74	1.13	28.80	10,327.08
2015 TOTALS (lbs/day mitigated)	4.17	23.76	53.26	0.09	51.88	1.24	53.05	10.84	1.13	11.90	10,327.08
2016 TOTALS (lbs/day unmitigated)	679.00	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
2016 TOTALS (lbs/day mitigated)	679.00	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 1/5/2015-1/23/2015 Active Days: 15	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015 Active Days: 69	3.11	<u>23.76</u>	15.66	0.00	<u>132.81</u>	1.16	<u>133.97</u>	<u>27.74</u>	1.07	<u>28.80</u>	3,162.86
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	132.80	0.00	132.80	27.73	0.00	27.73	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 5/1/2015-6/12/2015 Active Days: 31	3.11	<u>23.76</u>	15.66	0.00	<u>132.81</u>	1.16	<u>133.97</u>	<u>27.74</u>	1.07	<u>28.80</u>	3,162.86
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	132.80	0.00	132.80	27.73	0.00	27.73	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015 Active Days: 10	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31

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Time Slice 6/29/2015-7/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Active Days: 10											
Asphalt 06/29/2015-07/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Paving Off-Gas	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.35	4.01	1.57	0.01	0.03	0.15	0.18	0.01	0.14	0.15	1,010.24
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015	<u>4.17</u>	21.32	<u>53.26</u>	<u>0.09</u>	0.38	<u>1.24</u>	1.62	0.14	<u>1.13</u>	1.26	<u>10,327.08</u>
Active Days: 124											
Building 07/13/2015-04/15/2016	4.17	21.32	53.26	0.09	0.38	1.24	1.62	0.14	1.13	1.26	10,327.08
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.73	7.29	7.02	0.02	0.09	0.29	0.38	0.03	0.27	0.30	2,484.50
Building Worker Trips	1.04	2.00	36.62	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,221.39
Time Slice 1/1/2016-4/15/2016	3.80	<u>19.47</u>	<u>50.12</u>	<u>0.09</u>	<u>0.38</u>	<u>1.12</u>	<u>1.50</u>	<u>0.14</u>	<u>1.01</u>	<u>1.15</u>	<u>10,326.40</u>
Active Days: 76											
Building 07/13/2015-04/15/2016	3.80	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.66	6.43	6.51	0.02	0.09	0.26	0.35	0.03	0.24	0.27	2,484.55
Building Worker Trips	0.95	1.84	34.20	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,220.65
Time Slice 4/18/2016-5/6/2016	<u>679.00</u>	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Active Days: 15											
Coating 04/18/2016-05/06/2016	679.00	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Architectural Coating	678.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.25	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

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Building Volume Total (cubic feet): 1083000

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 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

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

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1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 6/15/2015 - 6/26/2015 - 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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 6.64

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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

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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>	<u>CO2</u>
Time Slice 1/5/2015-1/23/2015 Active Days: 15	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015 Active Days: 69	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	51.88	0.00	51.88	10.83	0.00	10.83	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39

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Time Slice 5/1/2015-6/12/2015 Active Days: 31	3.11	<u>23.76</u>	15.66	0.00	<u>51.88</u>	1.16	<u>53.05</u>	<u>10.84</u>	1.07	<u>11.90</u>	3,162.86
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	51.88	0.00	51.88	10.83	0.00	10.83	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015 Active Days: 10	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31
Time Slice 6/29/2015-7/10/2015 Active Days: 10	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Asphalt 06/29/2015-07/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Paving Off-Gas	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.35	4.01	1.57	0.01	0.03	0.15	0.18	0.01	0.14	0.15	1,010.24
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015 Active Days: 124	<u>4.17</u>	21.32	<u>53.26</u>	<u>0.09</u>	0.38	<u>1.24</u>	1.62	0.14	<u>1.13</u>	1.26	<u>10,327.08</u>
Building 07/13/2015-04/15/2016	4.17	21.32	53.26	0.09	0.38	1.24	1.62	0.14	1.13	1.26	10,327.08
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.73	7.29	7.02	0.02	0.09	0.29	0.38	0.03	0.27	0.30	2,484.50
Building Worker Trips	1.04	2.00	36.62	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,221.39

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Time Slice 1/1/2016-4/15/2016 Active Days: 76	3.80	<u>19.47</u>	<u>50.12</u>	<u>0.09</u>	<u>0.38</u>	<u>1.12</u>	<u>1.50</u>	<u>0.14</u>	<u>1.01</u>	<u>1.15</u>	<u>10,326.40</u>
Building 07/13/2015-04/15/2016	3.80	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.66	6.43	6.51	0.02	0.09	0.26	0.35	0.03	0.24	0.27	2,484.55
Building Worker Trips	0.95	1.84	34.20	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,220.65
Time Slice 4/18/2016-5/6/2016 Active Days: 15	679.00	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Coating 04/18/2016-05/06/2016	679.00	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Architectural Coating	678.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.25	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Warner Center.urb924

Project Name: Warner Center

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>	<u>CO2</u>
2015 TOTALS (lbs/day unmitigated)	4.17	23.76	53.26	0.09	132.81	1.24	133.97	27.74	1.13	28.80	10,327.08
2015 TOTALS (lbs/day mitigated)	4.17	23.76	53.26	0.09	51.88	1.24	53.05	10.84	1.13	11.90	10,327.08
2016 TOTALS (lbs/day unmitigated)	679.00	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
2016 TOTALS (lbs/day mitigated)	679.00	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40

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 1/5/2015-1/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Active Days: 15											
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Active Days: 69											
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	132.80	0.00	132.80	27.73	0.00	27.73	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 5/1/2015-6/12/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Active Days: 31											
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	132.81	1.16	133.97	27.74	1.07	28.80	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	132.80	0.00	132.80	27.73	0.00	27.73	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Active Days: 10											
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31

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Time Slice 6/29/2015-7/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Active Days: 10											
Asphalt 06/29/2015-07/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Paving Off-Gas	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.35	4.01	1.57	0.01	0.03	0.15	0.18	0.01	0.14	0.15	1,010.24
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015	<u>4.17</u>	21.32	<u>53.26</u>	<u>0.09</u>	0.38	<u>1.24</u>	1.62	0.14	<u>1.13</u>	1.26	<u>10,327.08</u>
Active Days: 124											
Building 07/13/2015-04/15/2016	4.17	21.32	53.26	0.09	0.38	1.24	1.62	0.14	1.13	1.26	10,327.08
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.73	7.29	7.02	0.02	0.09	0.29	0.38	0.03	0.27	0.30	2,484.50
Building Worker Trips	1.04	2.00	36.62	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,221.39
Time Slice 1/1/2016-4/15/2016	3.80	<u>19.47</u>	<u>50.12</u>	<u>0.09</u>	<u>0.38</u>	<u>1.12</u>	<u>1.50</u>	<u>0.14</u>	<u>1.01</u>	<u>1.15</u>	<u>10,326.40</u>
Active Days: 76											
Building 07/13/2015-04/15/2016	3.80	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.66	6.43	6.51	0.02	0.09	0.26	0.35	0.03	0.24	0.27	2,484.55
Building Worker Trips	0.95	1.84	34.20	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,220.65
Time Slice 4/18/2016-5/6/2016	<u>679.00</u>	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Active Days: 15											
Coating 04/18/2016-05/06/2016	679.00	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Architectural Coating	678.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.25	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

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Building Volume Total (cubic feet): 1083000

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 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

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 26.57

Maximum Daily Acreage Disturbed: 6.64

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

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1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 6/15/2015 - 6/26/2015 - 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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 6.64

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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

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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>	<u>CO2</u>
Time Slice 1/5/2015-1/23/2015 Active Days: 15	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015 Active Days: 69	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	51.88	0.00	51.88	10.83	0.00	10.83	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39

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Time Slice 5/1/2015-6/12/2015 Active Days: 31	3.11	<u>23.76</u>	15.66	0.00	<u>51.88</u>	1.16	<u>53.05</u>	<u>10.84</u>	1.07	<u>11.90</u>	3,162.86
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	51.88	1.16	53.05	10.84	1.07	11.90	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	51.88	0.00	51.88	10.83	0.00	10.83	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015 Active Days: 10	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31
Time Slice 6/29/2015-7/10/2015 Active Days: 10	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Asphalt 06/29/2015-07/10/2015	4.01	15.59	10.93	0.01	0.05	1.10	1.15	0.02	1.02	1.03	2,390.77
Paving Off-Gas	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.35	4.01	1.57	0.01	0.03	0.15	0.18	0.01	0.14	0.15	1,010.24
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015 Active Days: 124	<u>4.17</u>	21.32	<u>53.26</u>	<u>0.09</u>	0.38	<u>1.24</u>	1.62	0.14	<u>1.13</u>	1.26	<u>10,327.08</u>
Building 07/13/2015-04/15/2016	4.17	21.32	53.26	0.09	0.38	1.24	1.62	0.14	1.13	1.26	10,327.08
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.73	7.29	7.02	0.02	0.09	0.29	0.38	0.03	0.27	0.30	2,484.50
Building Worker Trips	1.04	2.00	36.62	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,221.39

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Time Slice 1/1/2016-4/15/2016 Active Days: 76	3.80	<u>19.47</u>	<u>50.12</u>	<u>0.09</u>	<u>0.38</u>	<u>1.12</u>	<u>1.50</u>	<u>0.14</u>	<u>1.01</u>	<u>1.15</u>	<u>10,326.40</u>
Building 07/13/2015-04/15/2016	3.80	19.47	50.12	0.09	0.38	1.12	1.50	0.14	1.01	1.15	10,326.40
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.66	6.43	6.51	0.02	0.09	0.26	0.35	0.03	0.24	0.27	2,484.55
Building Worker Trips	0.95	1.84	34.20	0.07	0.29	0.19	0.48	0.11	0.16	0.26	6,220.65
Time Slice 4/18/2016-5/6/2016 Active Days: 15	<u>679.00</u>	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Coating 04/18/2016-05/06/2016	679.00	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11
Architectural Coating	678.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.25	0.49	9.00	0.02	0.08	0.05	0.13	0.03	0.04	0.07	1,637.11

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Construction.urb924

Project Name: No Project Construction

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>	<u>CO2</u>
2015 TOTALS (tons/year unmitigated)	0.44	2.62	3.90	0.00	7.75	0.14	7.89	1.62	0.13	1.75	744.27
2015 TOTALS (tons/year mitigated)	0.44	2.62	3.90	0.00	3.05	0.14	3.20	0.64	0.13	0.77	744.27
Percent Reduction	0.00	0.00	0.00	0.00	60.58	0.00	59.47	60.46	0.00	55.93	0.00
2016 TOTALS (tons/year unmitigated)	7.15	0.64	1.74	0.00	0.01	0.04	0.05	0.00	0.03	0.04	343.28
2016 TOTALS (tons/year mitigated)	7.15	0.64	1.74	0.00	0.01	0.04	0.05	0.00	0.03	0.04	343.28
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, 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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Asphalt 06/29/2015-07/10/2015	0.02	0.08	0.06	0.00	0.00	0.01	0.01	0.00	0.01	0.01	12.76
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.66
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.86
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Building 07/13/2015-04/15/2016	0.23	1.14	2.91	0.00	0.02	0.07	0.09	0.01	0.06	0.07	542.37
Building Off Road Diesel	0.15	0.75	0.60	0.00	0.00	0.05	0.05	0.00	0.04	0.04	100.51
Building Vendor Trips	0.03	0.28	0.28	0.00	0.00	0.01	0.01	0.00	0.01	0.01	96.76
Building Worker Trips	0.06	0.11	2.03	0.00	0.02	0.01	0.03	0.01	0.01	0.01	345.09
2016	7.15	0.64	1.74	0.00	0.01	0.04	0.05	0.00	0.03	0.04	343.28
Building 07/13/2015-04/15/2016	0.13	0.64	1.68	0.00	0.01	0.04	0.05	0.00	0.03	0.04	332.40
Building Off Road Diesel	0.08	0.43	0.36	0.00	0.00	0.03	0.03	0.00	0.02	0.02	61.61
Building Vendor Trips	0.02	0.15	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	59.31
Building Worker Trips	0.03	0.06	1.16	0.00	0.01	0.01	0.02	0.00	0.01	0.01	211.48
Coating 04/18/2016-05/06/2016	7.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.89
Architectural Coating	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.89

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

Building Volume Total (cubic feet): 201720

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day

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1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

Phase: Trenching 6/15/2015 - 6/26/2015 - Default Trenching Description

Off-Road Equipment:

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

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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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 7.7

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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:

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Asphalt 06/29/2015-07/10/2015	0.02	0.08	0.06	0.00	0.00	0.01	0.01	0.00	0.01	0.01	12.76
Paving Off-Gas	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.01	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.66
Paving On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.86
Paving Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Building 07/13/2015-04/15/2016	0.23	1.14	2.91	0.00	0.02	0.07	0.09	0.01	0.06	0.07	542.37
Building Off Road Diesel	0.15	0.75	0.60	0.00	0.00	0.05	0.05	0.00	0.04	0.04	100.51
Building Vendor Trips	0.03	0.28	0.28	0.00	0.00	0.01	0.01	0.00	0.01	0.01	96.76
Building Worker Trips	0.06	0.11	2.03	0.00	0.02	0.01	0.03	0.01	0.01	0.01	345.09
2016	7.15	0.64	1.74	0.00	0.01	0.04	0.05	0.00	0.03	0.04	343.28
Building 07/13/2015-04/15/2016	0.13	0.64	1.68	0.00	0.01	0.04	0.05	0.00	0.03	0.04	332.40
Building Off Road Diesel	0.08	0.43	0.36	0.00	0.00	0.03	0.03	0.00	0.02	0.02	61.61
Building Vendor Trips	0.02	0.15	0.16	0.00	0.00	0.01	0.01	0.00	0.01	0.01	59.31
Building Worker Trips	0.03	0.06	1.16	0.00	0.01	0.01	0.02	0.00	0.01	0.01	211.48
Coating 04/18/2016-05/06/2016	7.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.89
Architectural Coating	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.89

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

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PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Construction.urb924

Project Name: No Project Construction

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>	<u>CO2</u>
2015 TOTALS (lbs/day unmitigated)	4.34	23.76	46.89	0.07	154.01	1.16	155.17	32.16	1.07	33.23	8,747.87
2015 TOTALS (lbs/day mitigated)	4.34	23.76	46.89	0.07	60.17	1.16	61.33	12.57	1.07	13.63	8,747.87
2016 TOTALS (lbs/day unmitigated)	936.27	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
2016 TOTALS (lbs/day mitigated)	936.27	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Time Slice 1/5/2015-1/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Active Days: 15											
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Active Days: 69											
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	154.00	0.00	154.00	32.16	0.00	32.16	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 5/1/2015-6/12/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Active Days: 31											
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	154.00	0.00	154.00	32.16	0.00	32.16	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Active Days: 10											
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31

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Time Slice 6/29/2015-7/10/2015	<u>4.34</u>	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Active Days: 10											
Asphalt 06/29/2015-07/10/2015	4.34	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Paving Off-Gas	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.41	4.65	1.82	0.01	0.04	0.17	0.21	0.01	0.16	0.17	1,171.51
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015	3.78	18.33	<u>46.89</u>	<u>0.07</u>	0.32	1.11	1.43	0.11	1.01	1.12	<u>8,747.87</u>
Active Days: 124											
Building 07/13/2015-04/15/2016	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.45	4.51	4.51	0.01	0.06	0.18	0.24	0.02	0.17	0.19	1,560.64
Building Worker Trips	0.93	1.79	32.76	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,566.03
Time Slice 1/1/2016-4/15/2016	3.45	<u>16.82</u>	<u>44.19</u>	<u>0.07</u>	<u>0.32</u>	<u>1.00</u>	<u>1.32</u>	<u>0.11</u>	<u>0.91</u>	<u>1.02</u>	<u>8,747.25</u>
Active Days: 76											
Building 07/13/2015-04/15/2016	3.45	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.41	3.98	4.18	0.01	0.06	0.16	0.22	0.02	0.15	0.17	1,560.68
Building Worker Trips	0.85	1.65	30.60	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,565.37
Time Slice 4/18/2016-5/6/2016	<u>936.27</u>	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Active Days: 15											
Coating 04/18/2016-05/06/2016	936.27	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Architectural Coating	936.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.22	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

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Building Volume Total (cubic feet): 201720

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 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

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

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1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 6/15/2015 - 6/26/2015 - 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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 7.7

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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

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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>	<u>CO2</u>
Time Slice 1/5/2015-1/23/2015 Active Days: 15	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015 Active Days: 69	3.11	23.76	15.66	0.00	<u>60.17</u>	1.16	<u>61.33</u>	<u>12.57</u>	1.07	<u>13.63</u>	3,162.86
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	60.17	1.16	61.33	12.57	1.07	13.63	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	60.16	0.00	60.16	12.56	0.00	12.56	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39

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Time Slice 5/1/2015-6/12/2015 Active Days: 31	3.11	23.76	15.66	0.00	<u>60.17</u>	1.16	<u>61.33</u>	<u>12.57</u>	1.07	<u>13.63</u>	3,162.86
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	60.17	1.16	61.33	12.57	1.07	13.63	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	60.16	0.00	60.16	12.56	0.00	12.56	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015 Active Days: 10	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31
Time Slice 6/29/2015-7/10/2015 Active Days: 10	<u>4.34</u>	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Asphalt 06/29/2015-07/10/2015	4.34	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Paving Off-Gas	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.41	4.65	1.82	0.01	0.04	0.17	0.21	0.01	0.16	0.17	1,171.51
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015 Active Days: 124	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Building 07/13/2015-04/15/2016	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.45	4.51	4.51	0.01	0.06	0.18	0.24	0.02	0.17	0.19	1,560.64
Building Worker Trips	0.93	1.79	32.76	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,566.03

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Time Slice 1/1/2016-4/15/2016 Active Days: 76	3.45	<u>16.82</u>	<u>44.19</u>	<u>0.07</u>	<u>0.32</u>	<u>1.00</u>	<u>1.32</u>	<u>0.11</u>	<u>0.91</u>	<u>1.02</u>	<u>8,747.25</u>
Building 07/13/2015-04/15/2016	3.45	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.41	3.98	4.18	0.01	0.06	0.16	0.22	0.02	0.15	0.17	1,560.68
Building Worker Trips	0.85	1.65	30.60	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,565.37
Time Slice 4/18/2016-5/6/2016 Active Days: 15	<u>936.27</u>	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Coating 04/18/2016-05/06/2016	936.27	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Architectural Coating	936.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.22	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Construction.urb924

Project Name: No Project Construction

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>	<u>CO2</u>
2015 TOTALS (lbs/day unmitigated)	4.34	23.76	46.89	0.07	154.01	1.16	155.17	32.16	1.07	33.23	8,747.87
2015 TOTALS (lbs/day mitigated)	4.34	23.76	46.89	0.07	60.17	1.16	61.33	12.57	1.07	13.63	8,747.87
2016 TOTALS (lbs/day unmitigated)	936.27	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
2016 TOTALS (lbs/day mitigated)	936.27	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25

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 1/5/2015-1/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Active Days: 15											
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Active Days: 69											
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	154.00	0.00	154.00	32.16	0.00	32.16	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 5/1/2015-6/12/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Active Days: 31											
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	154.01	1.16	155.17	32.16	1.07	33.23	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	154.00	0.00	154.00	32.16	0.00	32.16	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Active Days: 10											
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31

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Time Slice 6/29/2015-7/10/2015	<u>4.34</u>	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Active Days: 10											
Asphalt 06/29/2015-07/10/2015	4.34	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Paving Off-Gas	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.41	4.65	1.82	0.01	0.04	0.17	0.21	0.01	0.16	0.17	1,171.51
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015	3.78	18.33	<u>46.89</u>	<u>0.07</u>	0.32	1.11	1.43	0.11	1.01	1.12	<u>8,747.87</u>
Active Days: 124											
Building 07/13/2015-04/15/2016	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.45	4.51	4.51	0.01	0.06	0.18	0.24	0.02	0.17	0.19	1,560.64
Building Worker Trips	0.93	1.79	32.76	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,566.03
Time Slice 1/1/2016-4/15/2016	3.45	<u>16.82</u>	<u>44.19</u>	<u>0.07</u>	<u>0.32</u>	<u>1.00</u>	<u>1.32</u>	<u>0.11</u>	<u>0.91</u>	<u>1.02</u>	<u>8,747.25</u>
Active Days: 76											
Building 07/13/2015-04/15/2016	3.45	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.41	3.98	4.18	0.01	0.06	0.16	0.22	0.02	0.15	0.17	1,560.68
Building Worker Trips	0.85	1.65	30.60	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,565.37
Time Slice 4/18/2016-5/6/2016	<u>936.27</u>	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Active Days: 15											
Coating 04/18/2016-05/06/2016	936.27	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Architectural Coating	936.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.22	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79

Phase Assumptions

Phase: Demolition 1/5/2015 - 1/23/2015 - Default Demolition Description

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Building Volume Total (cubic feet): 201720

Building Volume Daily (cubic feet): 8000

On Road Truck Travel (VMT): 111.11

Off-Road Equipment:

1 Concrete/Industrial Saws (10 hp) operating at a 0.73 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

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 30.78

Maximum Daily Acreage Disturbed: 7.7

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

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1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 6/15/2015 - 6/26/2015 - 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 6/29/2015 - 7/10/2015 - Default Paving Description

Acres to be Paved: 7.7

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 7/13/2015 - 4/15/2016 - 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 4/18/2016 - 5/6/2016 - 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

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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>	<u>CO2</u>
Time Slice 1/5/2015-1/23/2015 Active Days: 15	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Demolition 01/05/2015-01/23/2015	2.73	20.92	14.33	0.01	3.38	1.10	4.48	0.71	1.01	1.72	2,907.70
Fugitive Dust	0.00	0.00	0.00	0.00	3.36	0.00	3.36	0.70	0.00	0.70	0.00
Demo Off Road Diesel	2.54	19.00	12.68	0.00	0.00	1.03	1.03	0.00	0.94	0.94	2,281.38
Demo On Road Diesel	0.16	1.87	0.73	0.00	0.02	0.07	0.08	0.01	0.06	0.07	470.93
Demo Worker Trips	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 1/26/2015-4/30/2015 Active Days: 69	3.11	23.76	15.66	0.00	<u>60.17</u>	1.16	<u>61.33</u>	<u>12.57</u>	1.07	<u>13.63</u>	3,162.86
Mass Grading 01/26/2015-04/30/2015	3.11	23.76	15.66	0.00	60.17	1.16	61.33	12.57	1.07	13.63	3,162.86
Mass Grading Dust	0.00	0.00	0.00	0.00	60.16	0.00	60.16	12.56	0.00	12.56	0.00
Mass Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39

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Time Slice 5/1/2015-6/12/2015	3.11	23.76	15.66	0.00	<u>60.17</u>	1.16	<u>61.33</u>	<u>12.57</u>	1.07	<u>13.63</u>	3,162.86
Active Days: 31											
Fine Grading 05/01/2015-06/12/2015	3.11	23.76	15.66	0.00	60.17	1.16	61.33	12.57	1.07	13.63	3,162.86
Fine Grading Dust	0.00	0.00	0.00	0.00	60.16	0.00	60.16	12.56	0.00	12.56	0.00
Fine Grading Off Road Diesel	3.09	23.71	14.74	0.00	0.00	1.16	1.16	0.00	1.06	1.06	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	0.03	0.05	0.91	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.39
Time Slice 6/15/2015-6/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Active Days: 10											
Trenching 06/15/2015-06/26/2015	1.50	11.69	8.58	0.00	0.01	0.56	0.56	0.00	0.51	0.52	1,838.95
Trenching Off Road Diesel	1.48	11.65	7.85	0.00	0.00	0.55	0.55	0.00	0.51	0.51	1,714.64
Trenching Worker Trips	0.02	0.04	0.73	0.00	0.01	0.00	0.01	0.00	0.00	0.01	124.31
Time Slice 6/29/2015-7/10/2015	<u>4.34</u>	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Active Days: 10											
Asphalt 06/29/2015-07/10/2015	4.34	16.23	11.18	0.01	0.05	1.13	1.18	0.02	1.04	1.05	2,552.04
Paving Off-Gas	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	11.51	7.90	0.00	0.00	0.95	0.95	0.00	0.87	0.87	1,131.92
Paving On Road Diesel	0.41	4.65	1.82	0.01	0.04	0.17	0.21	0.01	0.16	0.17	1,171.51
Paving Worker Trips	0.04	0.08	1.46	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.62
Time Slice 7/13/2015-12/31/2015	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Active Days: 124											
Building 07/13/2015-04/15/2016	3.78	18.33	46.89	0.07	0.32	1.11	1.43	0.11	1.01	1.12	8,747.87
Building Off Road Diesel	2.40	12.04	9.62	0.00	0.00	0.76	0.76	0.00	0.70	0.70	1,621.20
Building Vendor Trips	0.45	4.51	4.51	0.01	0.06	0.18	0.24	0.02	0.17	0.19	1,560.64
Building Worker Trips	0.93	1.79	32.76	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,566.03

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Time Slice 1/1/2016-4/15/2016 Active Days: 76	3.45	<u>16.82</u>	<u>44.19</u>	<u>0.07</u>	<u>0.32</u>	<u>1.00</u>	<u>1.32</u>	<u>0.11</u>	<u>0.91</u>	<u>1.02</u>	<u>8,747.25</u>
Building 07/13/2015-04/15/2016	3.45	16.82	44.19	0.07	0.32	1.00	1.32	0.11	0.91	1.02	8,747.25
Building Off Road Diesel	2.19	11.19	9.40	0.00	0.00	0.67	0.67	0.00	0.62	0.62	1,621.20
Building Vendor Trips	0.41	3.98	4.18	0.01	0.06	0.16	0.22	0.02	0.15	0.17	1,560.68
Building Worker Trips	0.85	1.65	30.60	0.06	0.26	0.17	0.43	0.09	0.14	0.23	5,565.37
Time Slice 4/18/2016-5/6/2016 Active Days: 15	<u>936.27</u>	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Coating 04/18/2016-05/06/2016	936.27	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79
Architectural Coating	936.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.22	0.43	7.98	0.02	0.07	0.04	0.11	0.02	0.04	0.06	1,451.79

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 5/1/2015 - 6/12/2015 - Default Fine Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Mass Grading 1/26/2015 - 4/30/2015 - Default Mass Site Grading/Excavation Description

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Operation.urb924

Project Name: No Project Operation

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:

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)	89.75	35.67	26.08	0.00	0.07	0.06	43,706.10

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)	295.32	378.99	3,373.93	6.76	1,174.51	228.09	682,564.77

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)	385.07	414.66	3,400.01	6.76	1,174.58	228.15	726,270.87

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	2.64	35.63	24.94	0.00	0.07	0.06	43,680.29
Hearth	0.03	0.02	0.01	0.00	0.00	0.00	23.76
Landscape	0.09	0.02	1.13	0.00	0.00	0.00	2.05
Consumer Products	63.02						
Architectural Coatings	23.97						
TOTALS (tons/year, unmitigated)	89.75	35.67	26.08	0.00	0.07	0.06	43,706.10

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	34.48	39.83	365.06	0.72	123.45	24.01	72,157.88
Regnl shop. center	123.29	166.68	1,458.92	2.95	514.27	99.81	298,012.63
General office building	118.06	148.94	1,336.71	2.67	463.34	90.00	269,592.52
General light industry	19.49	23.54	213.24	0.42	73.45	14.27	42,801.74
TOTALS (tons/year, unmitigated)	295.32	378.99	3,373.93	6.76	1,174.51	228.09	682,564.77

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Season: Annual

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	177.13	5.76	dwelling units	6,731.00	38,770.56	391,691.23
Regnl shop. center		42.94	1000 sq ft	4,237.00	181,936.77	1,632,518.61
General office building		11.01	1000 sq ft	13,123.00	144,484.23	1,470,488.27
General light industry		6.97	1000 sq ft	3,118.00	21,732.46	233,080.63
					386,924.02	3,727,778.74

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Operation.urb924

Project Name: No Project Operation

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:

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)	491.61	195.32	142.83	0.00	0.38	0.38	239,355.27

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)	1,574.62	1,945.89	18,862.52	39.26	6,435.65	1,249.81	3,863,339.63

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)	2,066.23	2,141.21	19,005.35	39.26	6,436.03	1,250.19	4,102,694.90

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	14.48	195.24	136.65	0.00	0.36	0.36	239,344.03
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	345.30						
Architectural Coatings	131.34						
TOTALS (lbs/day, unmitigated)	491.61	195.32	142.83	0.00	0.38	0.38	239,355.27

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\No Project Operation.urb924

Project Name: No Project Operation

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:

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)	493.30	232.46	152.49	0.24	3.37	3.34	286,856.97

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)	1,705.55	2,338.27	17,736.77	32.63	6,435.65	1,249.81	3,493,563.32

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)	2,198.85	2,570.73	17,889.26	32.87	6,439.02	1,253.15	3,780,420.29

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	14.48	195.24	136.65	0.00	0.36	0.36	239,344.03
Hearth	2.18	37.22	15.84	0.24	3.01	2.98	47,512.94
Landscaping - No Winter Emissions							
Consumer Products	345.30						
Architectural Coatings	131.34						
TOTALS (lbs/day, unmitigated)	493.30	232.46	152.49	0.24	3.37	3.34	286,856.97

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	191.53	245.82	1,916.72	3.46	676.46	131.55	369,483.13
Regnl shop. center	726.69	1,028.02	7,696.00	14.23	2,817.90	546.89	1,524,987.65
General office building	677.42	919.15	7,008.55	12.89	2,538.83	493.17	1,379,976.07
General light industry	109.91	145.28	1,115.50	2.05	402.46	78.20	219,116.47
TOTALS (lbs/day, unmitigated)	1,705.55	2,338.27	17,736.77	32.63	6,435.65	1,249.81	3,493,563.32

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 60 Season: Winter

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	177.13	5.76	dwelling units	6,731.00	38,770.56	391,691.23
Regnl shop. center		42.94	1000 sq ft	4,237.00	181,936.77	1,632,518.61
General office building		11.01	1000 sq ft	13,123.00	144,484.23	1,470,488.27
General light industry		6.97	1000 sq ft	3,118.00	21,732.46	233,080.63
					386,924.02	3,727,778.74

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.6	0.0	100.0	0.0
Light Truck < 3750 lbs	7.2	0.0	98.6	1.4
Light Truck 3751-5750 lbs	23.3	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	41.4	58.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
General office building				35.0	17.5	47.5
General light industry				50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Project Operation.urb924

Project Name: Project Operation

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:

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)	291.03	84.00	52.32	0.00	0.17	0.16	104,352.08

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)	328.40	328.60	3,483.68	11.62	1,988.29	385.39	1,175,152.81

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)	619.43	412.60	3,536.00	11.62	1,988.46	385.55	1,279,504.89

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	6.31	83.91	51.16	0.00	0.16	0.15	104,258.10
Hearth	0.48	0.07	0.03	0.00	0.01	0.01	91.93
Landscape	0.09	0.02	1.13	0.00	0.00	0.00	2.05
Consumer Products	243.87						
Architectural Coatings	40.28						
TOTALS (tons/year, unmitigated)	291.03	84.00	52.32	0.00	0.17	0.16	104,352.08

Area Source Changes to Defaults

- Percentage of residences with wood stoves changed from 10% to 0%
- Percentage of residences with wood fireplaces changed from 5% to 0%
- Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	85.42	78.86	855.56	2.81	477.51	92.67	283,564.84
Regnl shop. center	103.60	110.56	1,147.28	3.87	665.64	128.90	391,922.42
General office building	131.13	131.26	1,395.78	4.66	796.87	154.46	471,088.21
General light industry	8.25	7.92	85.06	0.28	48.27	9.36	28,577.34
TOTALS (tons/year, unmitigated)	328.40	328.60	3,483.68	11.62	1,988.29	385.39	1,175,152.81

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Season: Annual

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	685.47	5.76	dwelling units	26,048.00	150,036.49	1,515,788.61
Regnl shop. center		42.94	1000 sq ft	5,487.00	235,611.77	2,114,144.35
General office building		11.01	1000 sq ft	22,581.00	248,616.82	2,530,297.61
General light industry		6.97	1000 sq ft	2,050.00	14,288.50	153,244.16
					648,553.58	6,313,474.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	48.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.4	0.0	100.0	0.0
Light Truck 3751-5750 lbs	24.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.8	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.9	0.0	78.9	21.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	66.7	33.3
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.5	32.0	68.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.4	0.0	92.9	7.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
General light industry	50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Project Operation.urb924

Project Name: Project Operation

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:

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)	1,592.03	459.84	286.54	0.00	0.88	0.87	571,288.51

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)	1,748.23	1,688.57	19,511.94	67.36	10,894.76	2,111.74	6,650,576.41

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)	3,340.26	2,148.41	19,798.48	67.36	10,895.64	2,112.61	7,221,864.92

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	34.56	459.76	280.36	0.00	0.86	0.85	571,277.27
Hearth - No Summer Emissions							
Landscape	0.49	0.08	6.18	0.00	0.02	0.02	11.24
Consumer Products	1,336.26						
Architectural Coatings	220.72						
TOTALS (lbs/day, unmitigated)	1,592.03	459.84	286.54	0.00	0.88	0.87	571,288.51

Area Source Changes to Defaults

- Percentage of residences with wood stoves changed from 10% to 0%
- Percentage of residences with wood fireplaces changed from 5% to 0%
- Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	461.77	405.18	4,792.84	16.26	2,616.51	507.76	1,604,530.40
Regnl shop. center	543.86	568.26	6,417.44	22.45	3,647.37	706.33	2,218,304.29
General office building	698.29	674.42	7,824.47	27.01	4,366.41	846.37	2,666,022.76
General light industry	44.31	40.71	477.19	1.64	264.47	51.28	161,718.96
TOTALS (lbs/day, unmitigated)	1,748.23	1,688.57	19,511.94	67.36	10,894.76	2,111.74	6,650,576.41

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 80 Season: Summer

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	685.47	5.76	dwelling units	26,048.00	150,036.49	1,515,788.61
Regnl shop. center		42.94	1000 sq ft	5,487.00	235,611.77	2,114,144.35
General office building		11.01	1000 sq ft	22,581.00	248,616.82	2,530,297.61
General light industry		6.97	1000 sq ft	2,050.00	14,288.50	153,244.16
					648,553.58	6,313,474.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	48.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.4	0.0	100.0	0.0
Light Truck 3751-5750 lbs	24.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.8	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.9	0.0	78.9	21.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	66.7	33.3
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.5	32.0	68.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.4	0.0	92.9	7.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
General light industry	50.0	25.0	25.0

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Administrator\My Documents\Sirius Environmental\Warner Center\Project Operation.urb924

Project Name: Project Operation

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:

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)	1,599.97	603.79	341.65	0.92	12.50	12.37	755,145.51

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)	1,901.75	2,024.57	18,241.97	56.28	10,894.76	2,111.74	6,016,427.56

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)	3,501.72	2,628.36	18,583.62	57.20	10,907.26	2,124.11	6,771,573.07

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	34.56	459.76	280.36	0.00	0.86	0.85	571,277.27
Hearth	8.43	144.03	61.29	0.92	11.64	11.52	183,868.24
Landscaping - No Winter Emissions							
Consumer Products	1,336.26						
Architectural Coatings	220.72						
TOTALS (lbs/day, unmitigated)	1,599.97	603.79	341.65	0.92	12.50	12.37	755,145.51

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 10% to 0%

Percentage of residences with wood fireplaces changed from 5% to 0%

Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Apartments mid rise	480.57	485.95	4,478.30	13.60	2,616.51	507.76	1,452,278.97
Regnl shop. center	615.25	680.93	6,024.49	18.74	3,647.37	706.33	2,005,951.78
General office building	758.96	808.84	7,295.39	22.57	4,366.41	846.37	2,411,870.27
General light industry	46.97	48.85	443.79	1.37	264.47	51.28	146,326.54
TOTALS (lbs/day, unmitigated)	1,901.75	2,024.57	18,241.97	56.28	10,894.76	2,111.74	6,016,427.56

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 60 Season: Winter

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Apartments mid rise	685.47	5.76	dwelling units	26,048.00	150,036.49	1,515,788.61
Regnl shop. center		42.94	1000 sq ft	5,487.00	235,611.77	2,114,144.35
General office building		11.01	1000 sq ft	22,581.00	248,616.82	2,530,297.61
General light industry		6.97	1000 sq ft	2,050.00	14,288.50	153,244.16
					648,553.58	6,313,474.73

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	48.0	0.0	100.0	0.0
Light Truck < 3750 lbs	7.4	0.0	100.0	0.0
Light Truck 3751-5750 lbs	24.4	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.8	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.9	0.0	78.9	21.1
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	66.7	33.3
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.5	32.0	68.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.4	0.0	92.9	7.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Regnl shop. center	2.0	1.0	97.0
General office building	35.0	17.5	47.5
General light industry	50.0	25.0	25.0

	Solid Waste Generation Pounds per day	CO ₂ e Emission Factor Metric tons/ton of waste
Existing	104657.59	3.1
2035 with Project	253222.81	3.1
2035 without Project	129152.44	3.1

CO₂e Emission
Metric tons/yr

59210.0315

143260.805

73067.9929