

## **13.3 Air Quality Data**

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**Parenthetical URBEMIS 2007 Assumptions  
For: Marymount College Facilities Expansion EIR  
Date: September 24, 2007**

**LAND USES**

Amount	Land Use Type	Unit Type	Trip Rate
77.504	Junior/Community College	Thousand Square Feet	27.49
128	Apartment/Residence Halls	Dwelling Unit	6.72

Note: Trip rates were adjusted to reflect the Internal Trip Capture rate generated by the project. The total daily trip rate is consistent with the Traffic Impact Analysis dated July 27, 2007.

**CONSTRUCTION SOURCES**

Phase	Year	Development
Phase I	2008 (3 months duration)	<ul style="list-style-type: none"> <li>▪ Remove existing tennis and handball courts.</li> <li>▪ Remove Pre-school, Health Center and Maintenance Building.</li> <li>▪ Remove existing west and south parking lots, along with man-made fill slopes.</li> <li>▪ Re-configure north parking lots and construct new campus entry drive.</li> <li>▪ Construct new parking lot extension on the east and west sides of the campus.</li> <li>▪ Remodel existing Administration Building.</li> <li>▪ Remove library wing of the existing Classroom Building.</li> <li>▪ Remove View Room and Hall to existing Academic Building.</li> <li>▪ Rough grade and establish building pads for future building construction.</li> </ul>
Phase II	2009 – 2012 (19 months duration)	<ul style="list-style-type: none"> <li>▪ Construct library addition.</li> <li>▪ Construct Athletic Facility and pool.</li> <li>▪ Construct Maintenance Building.</li> <li>▪ Construct Bookstore addition.</li> <li>▪ Construct athletic field and tennis courts.</li> <li>▪ Construct site pedestrian improvements adjacent to new construction.</li> <li>▪ Fine grade for new construction associated with this phase.</li> </ul>
Phase III	2013 – 2015 (14 months duration)	<ul style="list-style-type: none"> <li>▪ Construct site pedestrian improvements adjacent to new construction.</li> <li>▪ Construct Academic Building addition.</li> <li>▪ Remove existing swimming pool.</li> <li>▪ Construct Fine Arts Studio Addition.</li> <li>▪ Construct Residence Halls.</li> <li>▪ Fine grade for new construction associated with this phase.</li> </ul>

**Sub-Phase 1 - Demolition:**

Phase	Total Cubic Footage	Total Cubic Feet per Day	Duration (months)	Soil Hauling (cubic yards)
Phase I	32,000	1,320	0.5	10,000
Phase II	NA	-	-	-
Phase III	9,000	1,320	1	None

**Demolition Equipment:**

- 1 Concrete/Industrial Saw 8 hours operation
- 1 Crushing/Processing Equipment 8 hours operation
- 1 Rubber Tired Dozer 8 hours operation
- 1 Tractors/Loaders/Backhoes 8 hours operation
- 1 Off-Highway Tractor 8 hours operation

**Phase 2 - Site Grading:**

Phase	Total Acreage Disturbed	Acreage Disturbed Daily	Duration (months)	Fugitive Dust
Phase I	5	5	2.5	Default
Phase II	5	5	2	Default
Phase III	9	5	2	Default

**Rough Grading Equipment:**

- 1 Tractors/Loaders/Backhoes 8 hours operation
- 1 Off Highway Truck 8 hours operation
- 1 Rubber Tired Dozer 8 hours operation
- 1 Scraper 8 hours operation
- 1 Grader 8 hours operation
- 1 Water Truck 8 hours operation

**Fine Grading Equipment:**

- 1 Tractors/Loaders/Backhoes 8 hours operation
- 1 Off Highway Truck 8 hours operation
- 1 Grader 8 hours operation
- 1 Water Truck 8 hours operation

**Sub-Phase 3 – Building:**

Phase	Duration (months)
Phase I	NA
Phase II	19
Phase III	14

**Building Equipment:**

- 1 Crane 6 hours operation
- 1 Generator Set 8 hours operation
- 1 Off Highway Trucks 8 hours operation
- 1 Tractor/Loader/Backhoe 8 hours operation
- 1 Trencher 8 hours operation
- 1 Welder 6 hours operation
- 1 Forklift 6 hours operation

### **Sub-Phase 3 – Architectural Coatings:**

Duration –3 Months

Residential Emission Factor = 0.00272 pounds per square feet

Non-Residential Emission Factor = 0.0116 pounds per square feet (based on SCAQMD, URBEMIS 8.7 Model Update, August 2005).

### **Sub-Phase 3 – Paving**

Phase	Duration (months)	Acres to be Paved
Phase I	0.5	0.5
Phase II	2	0.38
Phase III	2	0.5

### **Paving Equipment:**

1	Paver	8 hours operation
1	Paving Equipment	8 hours operation
1	Roller	8 hours operation
1	Tractor/Loader/Backhoe	8 hours operation
4	Cement and Mortar Mixers	8 hours operation

### **Phase 3 - Worker Commute**

(URBEMIS 2007 default all phases)

### **Construction Mitigation:**

Refer to URBEMIS 2007 file output.

**YEAR 2007 AREA SOURCES**

**Natural Gas Fuel Combustion:**

(URBEMIS 2007 default all phases)

**Wood Stoves Fuel Combustion:**

Off

**Fireplaces:**

Off

**Landscape Maintenance Equipment:**

Year of Completion	Summer Days
2012	180

**Consumer Products:**

(URBEMIS 2007 default all phases)

**Area Source Mitigation:**

Refer to URBEMIS 2007 file output.

## **YEAR 2010 OPERATIONAL SOURCES**

### **Vehicle Fleet %:**

(URBEMIS 2007 default all phases)

### **Year:**

Year of Completion – 2012\*

(\*Year 2012 was used for area source completion year to be consistent with the Traffic Impact Analysis. It should be noted that this represents a conservative analysis as emissions rates decline in future years.)

### **Trip Characteristics:**

(URBEMIS 2007 Default all phases)

### **Temperature Data:**

50 to 95 degrees Fahrenheit

### **Variable Starts:**

(URBEMIS 2007 default all phases)

### **Road Dust:**

Paved – 100%  
Unpaved – 0%

### **Pass By Trips (On/Off):**

On

### **Double-Counting(On/Off):**

Off

### **Operational Mitigation Measures:**

Refer to URBEMIS 2007 file output.

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase1b.urb9

Project Name: Marymount College 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>
2008 TOTALS (lbs/day unmitigated)	8.40	78.10	36.52	0.01	17.84	3.51	21.35	3.73	3.23	6.96	7,168.55
2008 TOTALS (lbs/day mitigated)	8.40	78.10	36.52	0.01	4.08	3.51	7.59	0.86	3.23	4.09	7,168.55

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
		47.33		0.00			2.90		2.15		
Demolition 01/01/2008-01/19/2008	5.60		26.90		0.56	2.34		0.12	2.15		3,856.39
		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>17.84</u>	<u>3.51</u>		<u>3.73</u>		<u>6.96</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>21.35</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		17.84	3.51		3.73	3.23		7,168.55
		78.10		0.01			21.35			6.96	

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Mass Grading Dust	0.00	0.00	0.00	0.00	17.80	0.00	17.80	3.72	0.00	3.72	0.00
Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06
Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
Mass Grading Worker Trips	0.06	0.11	1.82	0.00	0.01	0.00	0.01	0.00	0.00	0.01	186.73
Time Slice 3/17/2008-3/31/2008 Number Active Days: 11	2.46		9.59		0.01	1.19		0.00		1.10	1,291.81
		14.21		0.00			1.20		1.09		
Asphalt 03/16/2008-03/31/2008	2.46		9.59		0.01	1.19		0.00	1.09		1,291.81
		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Phase Assumptions

Phase: Demolition 1/1/2008 - 1/19/2008 - Default Demolition Description

Building Volume Total (cubic feet): 169000

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

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

1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day

1 Off Highway Tractors (267 hp) operating at a 0.65 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

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

Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

Total Acres Disturbed: 3.56

Maximum Daily Acreage Disturbed: 0.89

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 243.9

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Scrapers (313 hp) operating at a 0.72 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
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 3/16/2008 - 3/31/2008 - Default Paving Description

Acres to be Paved: 0.5

Off-Road Equipment:

- 4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
		47.33		0.00			2.90		2.15		
Demolition 01/01/2008-01/19/2008	5.60		26.90		0.56	2.34		0.12	2.15		3,856.39
		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>4.08</u>	<u>3.51</u>		<u>0.86</u>		<u>4.09</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>7.59</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		4.08	3.51		0.86	3.23		7,168.55
		78.10		0.01			7.59			4.09	
Mass Grading Dust	0.00	0.00	0.00	0.00	4.04	0.00	4.04	0.84	0.00	0.84	0.00
Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06

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Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
Mass Grading Worker Trips	0.06	0.11	1.82	0.00	0.01	0.00	0.01	0.00	0.00	0.01	186.73
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		14.21		0.00			1.20		1.09		
Asphalt 03/16/2008-03/31/2008	2.46		9.59		0.01	1.19		0.00	1.09		1,291.81
		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

Urbemis 2007 Version 9.2.0

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase1b.urb9

Project Name: Marymount College 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>
2008 TOTALS (lbs/day unmitigated)	8.40	78.10	36.52	0.01	17.84	3.51	21.35	3.73	3.23	6.96	7,168.55
2008 TOTALS (lbs/day mitigated)	8.40	78.10	36.52	0.01	4.08	3.51	7.59	0.86	3.23	4.09	7,168.55

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>
Time Slice 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
		47.33		0.00			2.90		2.15		
Demolition 01/01/2008-01/19/2008	5.60		26.90		0.56	2.34		0.12	2.15		3,856.39
		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>17.84</u>	<u>3.51</u>		<u>3.73</u>		<u>6.96</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>21.35</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		17.84	3.51		3.73	3.23		7,168.55
		78.10		0.01			21.35			6.96	
Mass Grading Dust	0.00	0.00	0.00	0.00	17.80	0.00	17.80	3.72	0.00	3.72	0.00

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Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06
Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
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		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Phase Assumptions

Phase: Demolition 1/1/2008 - 1/19/2008 - Default Demolition Description

Building Volume Total (cubic feet): 169000

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Off Highway Tractors (267 hp) operating at a 0.65 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
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

Total Acres Disturbed: 3.56

Maximum Daily Acreage Disturbed: 0.89

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 243.9

Off-Road Equipment:

- 1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day
- 1 Off Highway Trucks (479 hp) operating at a 0.57 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

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- 1 Scrapers (313 hp) operating at a 0.72 load factor for 8 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: Paving 3/16/2008 - 3/31/2008 - Default Paving Description

Acres to be Paved: 0.5

Off-Road Equipment:

- 4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
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		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>4.08</u>	<u>3.51</u>		<u>0.86</u>		<u>4.09</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>7.59</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		4.08	3.51		0.86	3.23		7,168.55
		78.10		0.01			7.59			4.09	
Mass Grading Dust	0.00	0.00	0.00	0.00	4.04	0.00	4.04	0.84	0.00	0.84	0.00
Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06
Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
Mass Grading Worker Trips	0.06	0.11	1.82	0.00	0.01	0.00	0.01	0.00	0.00	0.01	186.73

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Time Slice 3/17/2008-3/31/2008 Number Active Days: 11	2.46		9.59		0.01	1.19		0.00		1.10	1,291.81
		14.21		0.00			1.20		1.09		
Asphalt 03/16/2008-03/31/2008	2.46		9.59		0.01	1.19		0.00	1.09		1,291.81
		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase1b.urb9

Project Name: Marymount College 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>
2008 TOTALS (lbs/day unmitigated)	8.40	78.10	36.52	0.01	17.84	3.51	21.35	3.73	3.23	6.96	7,168.55
2008 TOTALS (lbs/day mitigated)	8.40	78.10	36.52	0.01	4.08	3.51	7.59	0.86	3.23	4.09	7,168.55

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>
Time Slice 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
		47.33		0.00			2.90		2.15		
Demolition 01/01/2008-01/19/2008	5.60		26.90		0.56	2.34		0.12	2.15		3,856.39
		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>17.84</u>	<u>3.51</u>		<u>3.73</u>		<u>6.96</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>21.35</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		17.84	3.51		3.73	3.23		7,168.55
		78.10		0.01			21.35			6.96	

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Mass Grading Dust	0.00	0.00	0.00	0.00	17.80	0.00	17.80	3.72	0.00	3.72	0.00
Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06
Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
Mass Grading Worker Trips	0.06	0.11	1.82	0.00	0.01	0.00	0.01	0.00	0.00	0.01	186.73
Time Slice 3/17/2008-3/31/2008 Number Active Days: 11	2.46		9.59		0.01	1.19		0.00		1.10	1,291.81
		14.21		0.00			1.20		1.09		
Asphalt 03/16/2008-03/31/2008	2.46		9.59		0.01	1.19		0.00	1.09		1,291.81
		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Phase Assumptions

Phase: Demolition 1/1/2008 - 1/19/2008 - Default Demolition Description

Building Volume Total (cubic feet): 169000

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

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

1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day

1 Off Highway Tractors (267 hp) operating at a 0.65 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

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

Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

Total Acres Disturbed: 3.56

Maximum Daily Acreage Disturbed: 0.89

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 243.9

Off-Road Equipment:

1 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

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- 1 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Scrapers (313 hp) operating at a 0.72 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
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 3/16/2008 - 3/31/2008 - Default Paving Description

Acres to be Paved: 0.5

Off-Road Equipment:

- 4 Cement and Mortar Mixers (10 hp) operating at a 0.56 load factor for 6 hours per day
- 1 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, 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 1/1/2008-1/18/2008 Number Active Days: 14	5.60		26.90		0.56	2.34		0.12		2.27	3,856.39
		47.33		0.00			2.90		2.15		
Demolition 01/01/2008-01/19/2008	5.60		26.90		0.56	2.34		0.12	2.15		3,856.39
		47.33		0.00			2.90			2.27	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	5.50	46.57	25.13	0.00	0.00	2.30	2.30	0.00	2.12	2.12	3,623.07
Demo On Road Diesel	0.05	0.67	0.26	0.00	0.00	0.03	0.03	0.00	0.03	0.03	77.70
Demo Worker Trips	0.05	0.09	1.52	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.61
Time Slice 1/21/2008-3/14/2008 Number Active Days: 40	<u>8.40</u>		<u>36.52</u>		<u>4.08</u>	<u>3.51</u>		<u>0.86</u>		<u>4.09</u>	<u>7,168.55</u>
		<u>78.10</u>		<u>0.01</u>			<u>7.59</u>		<u>3.23</u>		
Mass Grading 01/20/2008-03/15/2008	8.40		36.52		4.08	3.51		0.86	3.23		7,168.55
		78.10		0.01			7.59			4.09	
Mass Grading Dust	0.00	0.00	0.00	0.00	4.04	0.00	4.04	0.84	0.00	0.84	0.00
Mass Grading Off Road Diesel	7.68	69.11	31.23	0.00	0.00	3.12	3.12	0.00	2.87	2.87	5,948.06

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Mass Grading On Road Diesel	0.67	8.88	3.47	0.01	0.03	0.39	0.42	0.01	0.36	0.37	1,033.76
Mass Grading Worker Trips	0.06	0.11	1.82	0.00	0.01	0.00	0.01	0.00	0.00	0.01	186.73
Time Slice 3/17/2008-3/31/2008 Number Active Days: 11	2.46		9.59		0.01	1.19		0.00		1.10	1,291.81
		14.21		0.00			1.20		1.09		
Asphalt 03/16/2008-03/31/2008	2.46		9.59		0.01	1.19		0.00	1.09		1,291.81
		14.21		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.22	13.27	7.15	0.00	0.00	1.15	1.15	0.00	1.06	1.06	979.23
Paving On Road Diesel	0.06	0.81	0.32	0.00	0.00	0.04	0.04	0.00	0.03	0.03	94.73
Paving Worker Trips	0.07	0.13	2.12	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.85

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/20/2008 - 3/15/2008 - Default Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase2.urb9

Project Name: Marymount College 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>
2009 TOTALS (lbs/day unmitigated)	5.32	34.83	21.08	0.01	14.21	2.01	15.78	2.97	1.85	4.41	3,906.56
2009 TOTALS (lbs/day mitigated)	5.32	34.83	21.08	0.01	1.00	2.01	2.57	0.21	1.85	1.86	3,906.56
2010 TOTALS (lbs/day unmitigated)	57.69	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42
2010 TOTALS (lbs/day mitigated)	51.93	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<b>14.21</b>	1.57		<b>2.97</b>		<b>4.41</b>	2,771.41
		31.31		0.00			<b>15.78</b>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		14.21	1.57		2.97	1.44		2,771.41
		31.31		0.00			15.78			4.41	
Fine Grading Dust	0.00	0.00	0.00	0.00	14.20	0.00	14.20	2.97	0.00	2.97	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days:	<b>5.32</b>		<b>21.08</b>		0.03	<b>2.01</b>		0.01		1.86	<b>3,906.56</b>

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		<b>34.83</b>		<b>0.01</b>			2.04		<b>1.85</b>		
Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56
		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>57.69</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	57.69		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	57.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Phase Assumptions

Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 2.84

Maximum Daily Acreage Disturbed: 0.71

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 Off Highway Tractors (267 hp) operating at a 0.65 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

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

Phase: Building Construction 2/20/2009 - 6/19/2010 - Default Building Description

Off-Road Equipment:

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

1 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 Off Highway Trucks (479 hp) operating at a 0.57 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

1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day

1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

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

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

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

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

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<u>1.00</u>	1.57		<u>0.21</u>		1.65	2,771.41
		31.31		0.00			<u>2.57</u>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		1.00	1.57		0.21	1.44		2,771.41
		31.31		0.00			2.57			1.65	
Fine Grading Dust	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.21	0.00	0.21	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days: 225	<u>5.32</u>		<u>21.08</u>		0.03	<u>2.01</u>		0.01		<u>1.86</u>	<u>3,906.56</u>

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		<u>34.83</u>		<u>0.01</u>			2.04		<u>1.85</u>		
Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56
		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>51.93</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	51.93		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	51.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Urbemis 2007 Version 9.2.0

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase2.urb9

Project Name: Marymount College 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>
2009 TOTALS (lbs/day unmitigated)	5.32	34.83	21.08	0.01	14.21	2.01	15.78	2.97	1.85	4.41	3,906.56
2009 TOTALS (lbs/day mitigated)	5.32	34.83	21.08	0.01	1.00	2.01	2.57	0.21	1.85	1.86	3,906.56
2010 TOTALS (lbs/day unmitigated)	57.69	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42
2010 TOTALS (lbs/day mitigated)	51.93	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42

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>
Time Slice 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<b>14.21</b>	1.57		<b>2.97</b>		<b>4.41</b>	2,771.41
		31.31		0.00			<b>15.78</b>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		14.21	1.57		2.97	1.44		2,771.41
		31.31		0.00			15.78			4.41	
Fine Grading Dust	0.00	0.00	0.00	0.00	14.20	0.00	14.20	2.97	0.00	2.97	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days: 225	<b>5.32</b>		<b>21.08</b>		0.03	<b>2.01</b>		0.01		1.86	<b>3,906.56</b>
		<b>34.83</b>		<b>0.01</b>			2.04		<b>1.85</b>		

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Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56
		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>57.69</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	57.69		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	57.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Phase Assumptions

Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 2.84

Maximum Daily Acreage Disturbed: 0.71

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 Off Highway Tractors (267 hp) operating at a 0.65 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

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

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Phase: Building Construction 2/20/2009 - 6/19/2010 - Default Building Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 1 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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<u>1.00</u>	1.57		<u>0.21</u>		1.65	2,771.41
		31.31		0.00			<u>2.57</u>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		1.00	1.57		0.21	1.44		2,771.41
		31.31		0.00			2.57			1.65	
Fine Grading Dust	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.21	0.00	0.21	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days: 225	<u>5.32</u>		<u>21.08</u>		0.03	<u>2.01</u>		0.01		<u>1.86</u>	<u>3,906.56</u>
		<u>34.83</u>		<u>0.01</u>			2.04		<u>1.85</u>		
Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56

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		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>51.93</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	51.93		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	51.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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%

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The following mitigation measures apply to Phase: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Urbemis 2007 Version 9.2.0

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase2.urb9

Project Name: Marymount College 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>
2009 TOTALS (lbs/day unmitigated)	5.32	34.83	21.08	0.01	14.21	2.01	15.78	2.97	1.85	4.41	3,906.56
2009 TOTALS (lbs/day mitigated)	5.32	34.83	21.08	0.01	1.00	2.01	2.57	0.21	1.85	1.86	3,906.56
2010 TOTALS (lbs/day unmitigated)	57.69	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42
2010 TOTALS (lbs/day mitigated)	51.93	32.87	20.14	0.01	0.03	1.87	1.90	0.01	1.72	1.73	3,906.42

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>
Time Slice 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<b>14.21</b>	1.57		<b>2.97</b>		<b>4.41</b>	2,771.41
		31.31		0.00			<b>15.78</b>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		14.21	1.57		2.97	1.44		2,771.41
		31.31		0.00			15.78			4.41	
Fine Grading Dust	0.00	0.00	0.00	0.00	14.20	0.00	14.20	2.97	0.00	2.97	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days: 225	<b>5.32</b>		<b>21.08</b>		0.03	<b>2.01</b>		0.01		1.86	<b>3,906.56</b>
		<b>34.83</b>		<b>0.01</b>			2.04		<b>1.85</b>		

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Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56
		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>57.69</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	57.69		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	57.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Phase Assumptions

Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 2.84

Maximum Daily Acreage Disturbed: 0.71

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 Off Highway Tractors (267 hp) operating at a 0.65 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

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

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Phase: Building Construction 2/20/2009 - 6/19/2010 - Default Building Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 1 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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, 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 1/1/2009-2/19/2009 Number Active Days: 36	3.73		16.38		<u>1.00</u>	1.57		<u>0.21</u>		1.65	2,771.41
		31.31		0.00			<u>2.57</u>		1.44		
Fine Grading 01/01/2009-02/19/2009	3.73		16.38		1.00	1.57		0.21	1.44		2,771.41
		31.31		0.00			2.57			1.65	
Fine Grading Dust	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.21	0.00	0.21	0.00
Fine Grading Off Road Diesel	3.70	31.24	15.25	0.00	0.00	1.57	1.57	0.00	1.44	1.44	2,646.98
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	0.04	0.07	1.13	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.43
Time Slice 2/20/2009-12/31/2009 Number Active Days: 225	<u>5.32</u>		<u>21.08</u>		0.03	<u>2.01</u>		0.01		<u>1.86</u>	<u>3,906.56</u>
		<u>34.83</u>		<u>0.01</u>			2.04		<u>1.85</u>		
Building 02/20/2009-06/19/2010	5.32		21.08		0.03	2.01		0.01	1.85		3,906.56

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		34.83		0.01			2.04			1.86	
Building Off Road Diesel	5.09	33.52	15.80	0.00	0.00	1.95	1.95	0.00	1.79	1.79	3,232.65
Building Vendor Trips	0.09	1.04	0.82	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.14	0.27	4.47	0.01	0.02	0.01	0.04	0.01	0.01	0.02	493.10
Time Slice 1/1/2010-6/18/2010 Number Active Days: 121	5.04		<u>20.14</u>		<u>0.03</u>	<u>1.87</u>		<u>0.01</u>		<u>1.73</u>	<u>3,906.42</u>
		<u>32.87</u>		<u>0.01</u>			<u>1.90</u>		<u>1.72</u>		
Building 02/20/2009-06/19/2010	5.04		20.14		0.03	1.87		0.01	1.72		3,906.42
		32.87		0.01			1.90			1.73	
Building Off Road Diesel	4.83	31.68	15.22	0.00	0.00	1.82	1.82	0.00	1.67	1.67	3,232.65
Building Vendor Trips	0.08	0.95	0.76	0.00	0.01	0.04	0.05	0.00	0.04	0.04	180.81
Building Worker Trips	0.13	0.25	4.15	0.01	0.02	0.01	0.04	0.01	0.01	0.02	492.96
Time Slice 6/21/2010-7/20/2010 Number Active Days: 22	<u>51.93</u>		0.71		0.00	0.00		0.00		0.00	83.72
		0.04		0.00			0.01		0.00		
Coating 06/20/2010-07/20/2010	51.93		0.71		0.00	0.00		0.00	0.00		83.72
		0.04		0.00			0.01			0.00	
Architectural Coating	51.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.04	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	83.72

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 1/1/2009 - 2/19/2009 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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%

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The following mitigation measures apply to Phase: Architectural Coating 6/20/2010 - 7/20/2010 - Type Your Description Here

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

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Urbemis 2007 Version 9.2.0

## Combined Summer Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase3.urb9

Project Name: Marymount College 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>
2013 TOTALS (lbs/day unmitigated)	7.46	52.64	36.70	0.02	42.39	2.73	45.12	8.87	2.51	11.37	8,545.67
2013 TOTALS (lbs/day mitigated)	7.46	52.64	36.70	0.02	3.04	2.73	5.77	0.65	2.51	3.16	8,545.67
2014 TOTALS (lbs/day unmitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2014 TOTALS (lbs/day mitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2015 TOTALS (lbs/day unmitigated)	3.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
2015 TOTALS (lbs/day mitigated)	0.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

## Construction Unmitigated Detail Report:

## CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27			1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07

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Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		42.31	1.10		8.84		9.85	3,200.48
		23.05		0.00			43.40		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<b>7.46</b>		<b>36.70</b>		<b>42.39</b>	<b>2.73</b>		<b>8.87</b>		<b>11.37</b>	<b>8,545.67</b>
		<b>52.64</b>		<b>0.02</b>			<b>45.12</b>		<b>2.51</b>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14



Phase Assumptions

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

Building Volume Total (cubic feet): 179560

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Off Highway Tractors (267 hp) operating at a 0.65 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
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 8.46

Maximum Daily Acreage Disturbed: 2.12

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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/2/2014 - 2/17/2014 - Default Paving Description

Acres to be Paved: 0.5

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 8 hours per day
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Building Construction 3/1/2013 - 2/1/2014 - Default Building Description

Off-Road Equipment:

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

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- 1 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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day
- 1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

- Rule: Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
- Rule: Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
- Rule: Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
- Rule: Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
- Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
- Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27			1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07
Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		2.95	1.10		0.62		1.63	3,200.48
		23.05		0.00			4.05		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00

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Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<u>7.46</u>		<u>36.70</u>		<u>3.04</u>	<u>2.73</u>		<u>0.65</u>		<u>3.16</u>	<u>8,545.67</u>
		<u>52.64</u>		<u>0.02</u>			<u>5.77</u>		<u>2.51</u>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Time Slice 1/1/2014-1/31/2014 Number Active Days: 23	<u>4.23</u>		<u>23.66</u>		<u>0.09</u>	<u>1.46</u>		<u>0.03</u>		<u>1.37</u>	<u>5,345.10</u>
		<u>27.04</u>		<u>0.02</u>			<u>1.55</u>		<u>1.34</u>		
Building 03/01/2013-02/01/2014	4.23		23.66		0.09	1.46		0.03	1.34		5,345.10
		27.04		0.02			1.55			1.37	
Building Off Road Diesel	3.72	23.62	13.28	0.00	0.00	1.30	1.30	0.00	1.20	1.20	3,232.65
Building Vendor Trips	0.28	2.99	2.64	0.01	0.03	0.12	0.15	0.01	0.11	0.12	887.17

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Building Worker Trips	0.22	0.43	7.74	0.01	0.06	0.04	0.09	0.02	0.03	0.05	1,225.29
Time Slice 2/3/2014-2/17/2014 Number Active Days: 11	2.45		11.47		0.01	1.19		0.01		1.10	1,741.83
		14.67		0.00			1.20		1.09		
Asphalt 02/02/2014-02/17/2014	2.45		11.47		0.01	1.19		0.01	1.09		1,741.83
		14.67		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.26	14.15	9.73	0.00	0.00	1.17	1.17	0.00	1.07	1.07	1,398.46
Paving On Road Diesel	0.04	0.43	0.17	0.00	0.00	0.02	0.02	0.00	0.01	0.02	94.73
Paving Worker Trips	0.05	0.09	1.57	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.64
Time Slice 2/18/2014-12/31/2014 Number Active Days: 227	2.64		0.11		0.00	0.00		0.00		0.00	17.41
		0.01		0.00			0.00		0.00		
Coating 02/18/2014-03/16/2015	2.64		0.11		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	2.64	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	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
Time Slice 1/1/2015-3/16/2015 Number Active Days: 53	<u>0.62</u>		<u>0.10</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>
		<u>0.01</u>		<u>0.00</u>			<u>0.00</u>		<u>0.00</u>		
Coating 02/18/2014-03/16/2015	0.62		0.10		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	0.62	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	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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

PM10: 44% PM25: 44%

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

PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Urbemis 2007 Version 9.2.0

Combined Winter Emissions Reports (Pounds/Day)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase3.urb9

Project Name: Marymount College 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>
2013 TOTALS (lbs/day unmitigated)	7.46	52.64	36.70	0.02	42.39	2.73	45.12	8.87	2.51	11.37	8,545.67
2013 TOTALS (lbs/day mitigated)	7.46	52.64	36.70	0.02	3.04	2.73	5.77	0.65	2.51	3.16	8,545.67
2014 TOTALS (lbs/day unmitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2014 TOTALS (lbs/day mitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2015 TOTALS (lbs/day unmitigated)	3.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
2015 TOTALS (lbs/day mitigated)	0.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

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>
Time Slice 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27		1.57	1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07
Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70

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Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		42.31	1.10		8.84		9.85	3,200.48
		23.05		0.00			43.40		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<u>7.46</u>		<u>36.70</u>		<u>42.39</u>	<u>2.73</u>		<u>8.87</u>		<u>11.37</u>	<u>8,545.67</u>
		<u>52.64</u>		<u>0.02</u>			<u>45.12</u>		<u>2.51</u>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41

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Time Slice 1/1/2014-1/31/2014 Number Active Days: 23	<u>4.23</u>	<u>23.66</u>		<u>0.09</u>	<u>1.46</u>		<u>0.03</u>		<u>1.37</u>	<u>5,345.10</u>	
		<u>27.04</u>	<u>0.02</u>			<u>1.55</u>		<u>1.34</u>			
Building 03/01/2013-02/01/2014	4.23	23.66		0.09	1.46		0.03	1.34		5,345.10	
		27.04	0.02			1.55		1.34	1.37		
Building Off Road Diesel	3.72	23.62	13.28	0.00	0.00	1.30	1.30	0.00	1.20	1.20	3,232.65
Building Vendor Trips	0.28	2.99	2.64	0.01	0.03	0.12	0.15	0.01	0.11	0.12	887.17
Building Worker Trips	0.22	0.43	7.74	0.01	0.06	0.04	0.09	0.02	0.03	0.05	1,225.29
Time Slice 2/3/2014-2/17/2014 Number Active Days: 11	<u>2.45</u>	<u>11.47</u>		<u>0.01</u>	<u>1.19</u>		<u>0.01</u>		<u>1.10</u>	<u>1,741.83</u>	
		<u>14.67</u>	<u>0.00</u>			<u>1.20</u>		<u>1.09</u>			
Asphalt 02/02/2014-02/17/2014	2.45	11.47		0.01	1.19		0.01	1.09		1,741.83	
		14.67	0.00			1.20		1.09	1.10		
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.26	14.15	9.73	0.00	0.00	1.17	1.17	0.00	1.07	1.07	1,398.46
Paving On Road Diesel	0.04	0.43	0.17	0.00	0.00	0.02	0.02	0.00	0.01	0.02	94.73
Paving Worker Trips	0.05	0.09	1.57	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.64
Time Slice 2/18/2014-12/31/2014 Number Active Days: 227	<u>3.62</u>	<u>0.11</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>	
		<u>0.01</u>	<u>0.00</u>			<u>0.00</u>		<u>0.00</u>			
Coating 02/18/2014-03/16/2015	3.62	0.11		0.00	0.00		0.00	0.00	0.00	17.41	
		0.01	0.00			0.00		0.00	0.00		
Architectural Coating	3.62	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	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
Time Slice 1/1/2015-3/16/2015 Number Active Days: 53	<u>3.62</u>	<u>0.10</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>	
		<u>0.01</u>	<u>0.00</u>			<u>0.00</u>		<u>0.00</u>			
Coating 02/18/2014-03/16/2015	3.62	0.10		0.00	0.00		0.00	0.00	0.00	17.41	
		0.01	0.00			0.00		0.00	0.00		
Architectural Coating	3.62	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	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

Phase Assumptions

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

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Building Volume Total (cubic feet): 179560

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Off Highway Tractors (267 hp) operating at a 0.65 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
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 8.46

Maximum Daily Acreage Disturbed: 2.12

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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/2/2014 - 2/17/2014 - Default Paving Description

Acres to be Paved: 0.5

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 8 hours per day
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Building Construction 3/1/2013 - 2/1/2014 - Default Building Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 1 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 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

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

1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day

1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

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

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

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

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

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

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

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 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27			1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07
Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		2.95	1.10		0.62		1.63	3,200.48
		23.05		0.00			4.05		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33

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Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<u>7.46</u>		<u>36.70</u>		<u>3.04</u>	<u>2.73</u>		<u>0.65</u>		<u>3.16</u>	<u>8,545.67</u>
		<u>52.64</u>		<u>0.02</u>			<u>5.77</u>		<u>2.51</u>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Time Slice 1/1/2014-1/31/2014 Number Active Days: 23	<u>4.23</u>		<u>23.66</u>		<u>0.09</u>	<u>1.46</u>		<u>0.03</u>		<u>1.37</u>	<u>5,345.10</u>
		<u>27.04</u>		<u>0.02</u>			<u>1.55</u>		<u>1.34</u>		
Building 03/01/2013-02/01/2014	4.23		23.66		0.09	1.46		0.03	1.34		5,345.10
		27.04		0.02			1.55			1.37	
Building Off Road Diesel	3.72	23.62	13.28	0.00	0.00	1.30	1.30	0.00	1.20	1.20	3,232.65
Building Vendor Trips	0.28	2.99	2.64	0.01	0.03	0.12	0.15	0.01	0.11	0.12	887.17
Building Worker Trips	0.22	0.43	7.74	0.01	0.06	0.04	0.09	0.02	0.03	0.05	1,225.29
Time Slice 2/3/2014-2/17/2014 Number Active Days: 11	2.45		11.47		0.01	1.19		0.01		1.10	1,741.83
		14.67		0.00			1.20		1.09		

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Asphalt 02/02/2014-02/17/2014	2.45		11.47		0.01	1.19		0.01	1.09		1,741.83
		14.67		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.26	14.15	9.73	0.00	0.00	1.17	1.17	0.00	1.07	1.07	1,398.46
Paving On Road Diesel	0.04	0.43	0.17	0.00	0.00	0.02	0.02	0.00	0.01	0.02	94.73
Paving Worker Trips	0.05	0.09	1.57	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.64
Time Slice 2/18/2014-12/31/2014 Number Active Days: 227	2.64		0.11		0.00	0.00		0.00		0.00	17.41
		0.01		0.00			0.00		0.00		
Coating 02/18/2014-03/16/2015	2.64		0.11		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	2.64	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	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
Time Slice 1/1/2015-3/16/2015 Number Active Days: 53	<u>0.62</u>		<u>0.10</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>
		<u>0.01</u>		<u>0.00</u>			<u>0.00</u>		<u>0.00</u>		
Coating 02/18/2014-03/16/2015	0.62		0.10		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	0.62	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	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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:

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PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Urbemis 2007 Version 9.2.0

Combined Annual Emissions Reports (Tons/Year)

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\Programs\Air\URBEMIS\URBEMIS2007\Marymount-ConsPhase3.urb9

Project Name: Marymount College 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>
2013 TOTALS (lbs/day unmitigated)	7.46	52.64	36.70	0.02	42.39	2.73	45.12	8.87	2.51	11.37	8,545.67
2013 TOTALS (lbs/day mitigated)	7.46	52.64	36.70	0.02	3.04	2.73	5.77	0.65	2.51	3.16	8,545.67
2014 TOTALS (lbs/day unmitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2014 TOTALS (lbs/day mitigated)	4.23	27.04	23.66	0.02	0.09	1.46	1.55	0.03	1.34	1.37	5,345.10
2015 TOTALS (lbs/day unmitigated)	3.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
2015 TOTALS (lbs/day mitigated)	0.62	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

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>
Time Slice 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27			1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07
Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70

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Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		42.31	1.10		8.84		9.85	3,200.48
		23.05		0.00			43.40		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<u>7.46</u>		<u>36.70</u>		<u>42.39</u>	<u>2.73</u>		<u>8.87</u>		<u>11.37</u>	<u>8,545.67</u>
		<u>52.64</u>		<u>0.02</u>			<u>45.12</u>		<u>2.51</u>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		42.31	1.10		8.84	1.01		3,200.48
		23.05		0.00			43.40			9.85	
Fine Grading Dust	0.00	0.00	0.00	0.00	42.30	0.00	42.30	8.83	0.00	8.83	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41

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Time Slice 1/1/2014-1/31/2014 Number Active Days: 23	<u>4.23</u>	<u>23.66</u>		<u>0.09</u>	<u>1.46</u>		<u>0.03</u>		<u>1.37</u>	<u>5,345.10</u>	
		<u>27.04</u>	<u>0.02</u>			<u>1.55</u>		<u>1.34</u>			
Building 03/01/2013-02/01/2014	4.23	23.66		0.09	1.46		0.03	1.34		5,345.10	
		27.04	0.02			1.55		1.37			
Building Off Road Diesel	3.72	23.62	13.28	0.00	0.00	1.30	1.30	0.00	1.20	1.20	3,232.65
Building Vendor Trips	0.28	2.99	2.64	0.01	0.03	0.12	0.15	0.01	0.11	0.12	887.17
Building Worker Trips	0.22	0.43	7.74	0.01	0.06	0.04	0.09	0.02	0.03	0.05	1,225.29
Time Slice 2/3/2014-2/17/2014 Number Active Days: 11	2.45		11.47		0.01	1.19		0.01		1.10	1,741.83
		14.67		0.00			1.20		1.09		
Asphalt 02/02/2014-02/17/2014	2.45		11.47		0.01	1.19		0.01	1.09		1,741.83
		14.67		0.00			1.20		1.10		
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.26	14.15	9.73	0.00	0.00	1.17	1.17	0.00	1.07	1.07	1,398.46
Paving On Road Diesel	0.04	0.43	0.17	0.00	0.00	0.02	0.02	0.00	0.01	0.02	94.73
Paving Worker Trips	0.05	0.09	1.57	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.64
Time Slice 2/18/2014-12/31/2014 Number Active Days: 227	3.62		0.11		0.00	0.00		0.00		0.00	17.41
		0.01		0.00			0.00		0.00		
Coating 02/18/2014-03/16/2015	3.62		0.11		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00		0.00		
Architectural Coating	3.62	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	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
Time Slice 1/1/2015-3/16/2015 Number Active Days: 53	<u>3.62</u>		<u>0.10</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>
		<u>0.01</u>		<u>0.00</u>			<u>0.00</u>		<u>0.00</u>		
Coating 02/18/2014-03/16/2015	3.62		0.10		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00		0.00		
Architectural Coating	3.62	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	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

Phase Assumptions

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

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Building Volume Total (cubic feet): 179560

Building Volume Daily (cubic feet): 1320

On Road Truck Travel (VMT): 18.33

Off-Road Equipment:

- 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
- 1 Crushing/Processing Equip (142 hp) operating at a 0.78 load factor for 8 hours per day
- 1 Off Highway Tractors (267 hp) operating at a 0.65 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
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 8.46

Maximum Daily Acreage Disturbed: 2.12

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 Off Highway Trucks (479 hp) operating at a 0.57 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
- 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 2/2/2014 - 2/17/2014 - Default Paving Description

Acres to be Paved: 0.5

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 8 hours per day
- 1 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
- 1 Rollers (95 hp) operating at a 0.56 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Building Construction 3/1/2013 - 2/1/2014 - Default Building Description

Off-Road Equipment:

- 1 Cranes (399 hp) operating at a 0.43 load factor for 6 hours per day
- 1 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 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

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

1 Trenchers (63 hp) operating at a 0.75 load factor for 8 hours per day

1 Welders (45 hp) operating at a 0.45 load factor for 6 hours per day

Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

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

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

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

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

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

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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, 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 1/1/2013-1/31/2013 Number Active Days: 23	4.42		21.07		0.56	1.70		0.12		1.69	3,856.19
		36.05		0.00			2.27		1.57		
Demolition 01/01/2013-01/31/2013	4.42		21.07		0.56	1.70		0.12	1.57		3,856.19
		36.05		0.00			2.27			1.69	
Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.12	0.00	0.12	0.00
Demo Off Road Diesel	4.36	35.58	19.86	0.00	0.00	1.68	1.68	0.00	1.55	1.55	3,623.07
Demo On Road Diesel	0.03	0.40	0.16	0.00	0.00	0.02	0.02	0.00	0.01	0.02	77.70
Demo Worker Trips	0.03	0.06	1.05	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.41
Time Slice 2/1/2013-2/28/2013 Number Active Days: 20	2.93		11.83		2.95	1.10		0.62		1.63	3,200.48
		23.05		0.00			4.05		1.01		
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33

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Time Slice 3/1/2013-3/1/2013 Number Active Days: 1	<u>7.46</u>		<u>36.70</u>		<u>3.04</u>	<u>2.73</u>		<u>0.65</u>		<u>3.16</u>	<u>8,545.67</u>
		<u>52.64</u>		<u>0.02</u>			<u>5.77</u>		<u>2.51</u>		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Fine Grading 02/01/2013-03/01/2013	2.93		11.83		2.95	1.10		0.62	1.01		3,200.48
		23.05		0.00			4.05			1.63	
Fine Grading Dust	0.00	0.00	0.00	0.00	2.95	0.00	2.95	0.62	0.00	0.62	0.00
Fine Grading Off Road Diesel	2.91	23.00	10.99	0.00	0.00	1.10	1.10	0.00	1.01	1.01	3,076.15
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	0.02	0.05	0.84	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.33
Time Slice 3/4/2013-12/31/2013 Number Active Days: 217	4.53		24.87		0.09	1.63		0.03		1.53	5,345.19
		29.59		0.02			1.72		1.50		
Building 03/01/2013-02/01/2014	4.53		24.87		0.09	1.63		0.03	1.50		5,345.19
		29.59		0.02			1.72			1.53	
Building Off Road Diesel	3.97	25.72	13.68	0.00	0.00	1.46	1.46	0.00	1.34	1.34	3,232.65
Building Vendor Trips	0.31	3.41	2.87	0.01	0.03	0.14	0.17	0.01	0.13	0.14	887.14
Building Worker Trips	0.25	0.47	8.31	0.01	0.06	0.03	0.09	0.02	0.03	0.05	1,225.41
Time Slice 1/1/2014-1/31/2014 Number Active Days: 23	<u>4.23</u>		<u>23.66</u>		<u>0.09</u>	<u>1.46</u>		<u>0.03</u>		<u>1.37</u>	<u>5,345.10</u>
		<u>27.04</u>		<u>0.02</u>			<u>1.55</u>		<u>1.34</u>		
Building 03/01/2013-02/01/2014	4.23		23.66		0.09	1.46		0.03	1.34		5,345.10
		27.04		0.02			1.55			1.37	
Building Off Road Diesel	3.72	23.62	13.28	0.00	0.00	1.30	1.30	0.00	1.20	1.20	3,232.65
Building Vendor Trips	0.28	2.99	2.64	0.01	0.03	0.12	0.15	0.01	0.11	0.12	887.17
Building Worker Trips	0.22	0.43	7.74	0.01	0.06	0.04	0.09	0.02	0.03	0.05	1,225.29
Time Slice 2/3/2014-2/17/2014 Number Active Days: 11	2.45		11.47		0.01	1.19		0.01		1.10	1,741.83
		14.67		0.00			1.20		1.09		

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Asphalt 02/02/2014-02/17/2014	2.45		11.47		0.01	1.19		0.01	1.09		1,741.83
		14.67		0.00			1.20			1.10	
Paving Off-Gas	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.26	14.15	9.73	0.00	0.00	1.17	1.17	0.00	1.07	1.07	1,398.46
Paving On Road Diesel	0.04	0.43	0.17	0.00	0.00	0.02	0.02	0.00	0.01	0.02	94.73
Paving Worker Trips	0.05	0.09	1.57	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.64
Time Slice 2/18/2014-12/31/2014 Number Active Days: 227	2.64		0.11		0.00	0.00		0.00		0.00	17.41
		0.01		0.00			0.00		0.00		
Coating 02/18/2014-03/16/2015	2.64		0.11		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	2.64	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	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41
Time Slice 1/1/2015-3/16/2015 Number Active Days: 53	<u>0.62</u>		<u>0.10</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		<u>0.00</u>	<u>17.41</u>
		<u>0.01</u>		<u>0.00</u>			<u>0.00</u>		<u>0.00</u>		
Coating 02/18/2014-03/16/2015	0.62		0.10		0.00	0.00		0.00	0.00		17.41
		0.01		0.00			0.00			0.00	
Architectural Coating	0.62	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	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.41

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Fine Grading 2/1/2013 - 3/1/2013 - Default Fine Site Grading/Excavation Description

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

PM10: 84% PM25: 84%

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

PM10: 5% PM25: 5%

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

PM10: 55% PM25: 55%

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

PM10: 69% PM25: 69%

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:

Page: 1

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PM10: 55% PM25: 55%

The following mitigation measures apply to Phase: Architectural Coating 2/18/2014 - 3/16/2015 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average South Coast Basin Average Basin

Table 1: Running Exhaust Emissions (grams/mile)

0% Pollutant Name: Reactive Org Gases Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.271	0.373	0.636	5.918	3.731	5.450	0.644
35	0.048	0.069	0.108	0.542	0.690	2.343	0.100

0% Pollutant Name: Carbon Monoxide Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	3.701	5.191	7.264	19.121	30.284	35.087	5.599
35	1.938	2.633	2.915	4.157	5.455	23.034	2.532

0% Pollutant Name: Oxides of Nitrogen Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.387	0.717	1.199	22.409	33.003	1.438	1.649
35	0.227	0.406	0.761	9.475	14.966	1.520	0.804

0% Pollutant Name: Carbon Dioxide Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	951.901	1183.288	1702.692	2861.803	2684.771	250.084	1212.968
35	309.937	386.449	522.956	1522.170	2101.808	128.635	419.713

0% Pollutant Name: Sulfur Dioxide Temperature: 50F Relative Humidity:

marymount2012.rts

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.009	0.011	0.016	0.027	0.026	0.003	0.012
35	0.003	0.004	0.005	0.015	0.020	0.002	0.004

0% Pollutant Name: PM2.5 Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.049	0.101	0.102	1.144	0.666	0.035	0.123
35	0.008	0.017	0.018	0.260	0.162	0.016	0.024

0% Pollutant Name: PM2.5 - Tire Wear Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.002	0.002	0.002	0.006	0.002	0.001	0.002
35	0.002	0.002	0.002	0.006	0.002	0.001	0.002

0% Pollutant Name: PM2.5 - Break Wear Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.005	0.005	0.005	0.009	0.005	0.003	0.006
35	0.005	0.005	0.005	0.009	0.005	0.003	0.006

0% Pollutant Name: Gasoline - mi/gal Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	9.245	7.399	5.110	3.403	3.371	27.495	8.140
35	28.325	22.666	16.782	17.214	17.072	51.438	24.928

0% Pollutant Name: Diesel - mi/gal Temperature: 50F Relative Humidity:

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	27.949	29.002	19.645	4.229	3.659	0.000	7.793
35	27.949	29.002	19.645	5.981	3.659	0.000	9.148



marymount2012.rts

180	6.560	7.981	16.833	29.027	21.870	11.077	10.108
240	6.994	8.514	17.742	30.713	22.713	12.913	10.736
300	7.388	8.999	18.591	32.315	23.550	14.558	11.315
360	7.744	9.435	19.380	33.833	24.380	16.012	11.845
420	8.062	9.823	20.109	35.267	25.204	17.275	12.326
480	8.340	10.162	20.778	36.617	26.022	18.346	12.758
540	8.580	10.453	21.388	37.883	26.833	19.227	13.141
600	8.781	10.696	21.937	39.065	27.638	19.917	13.475
660	8.943	10.890	22.426	40.162	28.436	20.415	13.760
720	9.067	11.037	22.855	41.176	29.228	20.723	13.996

ALL Pollutant Name: Oxides of Nitrogen Temperature: 50F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.219	0.359	0.939	0.670	0.725	0.224	0.416
10	0.248	0.401	1.115	0.997	1.090	0.259	0.492
20	0.301	0.476	1.426	1.570	1.729	0.322	0.627
30	0.345	0.538	1.682	2.038	2.250	0.376	0.739
40	0.379	0.589	1.884	2.399	2.653	0.418	0.827
50	0.405	0.626	2.032	2.655	2.937	0.451	0.891
60	0.422	0.651	2.125	2.805	3.103	0.474	0.931
120	0.447	0.697	2.238	2.870	3.175	0.486	0.981
180	0.479	0.744	2.277	2.858	3.163	0.481	1.016
240	0.476	0.739	2.261	2.841	3.144	0.470	1.008
300	0.471	0.730	2.239	2.817	3.120	0.456	0.998
360	0.463	0.719	2.208	2.788	3.089	0.439	0.984
420	0.455	0.705	2.170	2.753	3.052	0.420	0.967
480	0.444	0.687	2.125	2.712	3.009	0.397	0.946
540	0.431	0.667	2.072	2.665	2.960	0.372	0.922
600	0.417	0.644	2.012	2.612	2.904	0.344	0.894
660	0.400	0.618	1.944	2.553	2.842	0.313	0.863
720	0.382	0.588	1.868	2.489	2.774	0.280	0.828

ALL Pollutant Name: Carbon Dioxide Temperature: 50F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.327	14.221	18.469	6.576	3.875	21.496	13.292
10	13.402	16.684	22.867	9.879	6.635	23.984	15.976
20	17.948	22.122	32.238	16.418	12.105	28.845	21.779
30	23.025	28.243	42.379	22.866	17.509	33.549	28.160
40	28.633	35.045	53.289	29.224	22.845	38.099	35.119
50	34.772	42.529	64.968	35.490	28.113	42.493	42.656
60	41.441	50.696	77.416	41.667	33.315	46.731	50.772
120	89.902	111.069	160.786	68.586	55.892	66.163	107.659
180	102.641	126.687	184.512	79.425	65.491	68.802	123.060
240	115.193	142.105	207.688	89.624	74.523	71.287	138.180
300	127.559	157.325	230.316	99.184	82.989	73.619	153.019
360	139.740	172.345	252.394	108.105	90.888	75.798	167.576
420	151.734	187.165	273.923	116.387	98.221	77.823	181.852
480	163.542	201.787	294.903	124.029	104.987	79.695	195.847
540	175.163	216.209	315.333	131.032	111.188	81.414	209.560
600	186.599	230.432	335.214	137.395	116.821	82.979	222.992
660	197.848	244.456	354.547	143.120	121.889	84.391	236.142

720 208.911 258.281 373.329 148.205 126.390 85.650 249.011

ALL Pollutant Name: Sul fur Di oxi de Temperature: 50F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.001	0.001	0.001	0.001	0.000
40	0.000	0.000	0.001	0.001	0.001	0.001	0.001
50	0.000	0.001	0.001	0.001	0.001	0.001	0.001
60	0.001	0.001	0.001	0.001	0.001	0.001	0.001
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.001	0.001	0.001
240	0.001	0.002	0.002	0.001	0.001	0.001	0.002
300	0.001	0.002	0.003	0.002	0.001	0.001	0.002
360	0.001	0.002	0.003	0.002	0.001	0.001	0.002
420	0.002	0.002	0.003	0.002	0.001	0.001	0.002
480	0.002	0.002	0.003	0.002	0.001	0.001	0.002
540	0.002	0.002	0.003	0.002	0.002	0.001	0.002
600	0.002	0.002	0.004	0.002	0.002	0.001	0.002
660	0.002	0.003	0.004	0.002	0.002	0.001	0.003
720	0.002	0.003	0.004	0.002	0.002	0.001	0.003

ALL Pollutant Name: PM2.5 Temperature: 50F Rel ati ve Humi di ty:

Time mi n	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.000	0.009	0.001
10	0.001	0.002	0.002	0.001	0.001	0.008	0.002
20	0.002	0.004	0.004	0.002	0.002	0.006	0.003
30	0.003	0.006	0.006	0.002	0.002	0.005	0.005
40	0.004	0.008	0.008	0.003	0.003	0.004	0.006
50	0.005	0.010	0.009	0.003	0.003	0.003	0.007
60	0.006	0.011	0.010	0.004	0.004	0.003	0.008
120	0.009	0.018	0.016	0.005	0.005	0.007	0.012
180	0.010	0.019	0.017	0.005	0.005	0.010	0.013
240	0.010	0.020	0.018	0.005	0.005	0.013	0.014
300	0.011	0.022	0.019	0.006	0.006	0.015	0.015
360	0.011	0.023	0.020	0.006	0.006	0.018	0.016
420	0.012	0.024	0.020	0.006	0.006	0.020	0.016
480	0.012	0.024	0.021	0.006	0.006	0.021	0.017
540	0.013	0.025	0.022	0.006	0.006	0.022	0.017
600	0.013	0.026	0.022	0.007	0.007	0.023	0.018
660	0.013	0.026	0.022	0.007	0.007	0.024	0.018
720	0.013	0.026	0.023	0.007	0.007	0.024	0.018

Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

South Coast Basin Average Basin  
 Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 50F Relative Humidity:  
 ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.050	0.048	0.033	0.009	0.045	0.093	0.044
10	0.092	0.089	0.061	0.017	0.082	0.172	0.082
20	0.157	0.152	0.105	0.029	0.140	0.296	0.140
30	0.202	0.195	0.136	0.037	0.180	0.384	0.180
40	0.219	0.212	0.148	0.040	0.195	0.418	0.196

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

South Coast Basin Average Basin  
 Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:  
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
50	0.012	0.012	0.010	0.001	0.000	0.012	0.011

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

South Coast Basin Average Basin  
 Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:  
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
50	0.001	0.001	0.001	0.000	0.000	0.001	0.001

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

South Coast Basin Average Basin  
 Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Pollutant Name: Reactive Org Gases Temperature: ALL Relative Humidity:  
 ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
50	0.009	0.009	0.008	0.001	0.000	0.009	0.009

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average South Coast Basin Average Basin

Table 6b: Multi-Day Resting Loss Emissions  
 (grams/hour)

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
50	0.001	0.001	0.001	0.000	0.000	0.001	0.001

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

Average South Coast Basin Average Basin

Table 7: Estimated Travel Fractions

LDA	LDT	MDT	HDT	UBUS	MCY	ALL	
%VMT	0.493	0.316	0.139	0.044	0.002	0.006	1.000
%TRIP	0.473	0.279	0.186	0.053	0.000	0.008	1.000
%VEH	0.515	0.304	0.128	0.024	0.001	0.028	1.000

Title : South Coast Air Basin Avg Winter CYr 2012 Default Title  
 Version : Emfac2007 V2.3 Nov 1 2006  
 Run Date : 2007/06/07 10:28:55  
 Scen Year: 2012 -- All model years in the range 1968 to 2012 selected  
 Season : Winter  
 Area : South Coast

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Year: 2012 -- Model Years 1968 to 2012 Inclusive -- Winter  
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

South Coast Basin Average Basin  
 Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

ALL Pollutant Name: Reactive Org Gases Temperature: 50F Relative Humidity:

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.019	0.353	0.321	0.154	0.452	0.036	0.173
2	0.021	0.185	0.169	0.083	0.240	0.075	0.097
3	0.024	0.131	0.120	0.059	0.170	0.095	0.074
4	0.027	0.106	0.097	0.048	0.136	0.108	0.063
5	0.029	0.091	0.084	0.041	0.116	0.117	0.057
10	0.035	0.064	0.060	0.028	0.076	0.141	0.048
15	0.037	0.059	0.055	0.024	0.064	0.155	0.047
20	0.040	0.059	0.055	0.023	0.060	0.166	0.048
25	0.041	0.061	0.057	0.023	0.058	0.176	0.050
30	0.042	0.063	0.059	0.023	0.059	0.182	0.051
35	0.043	0.065	0.061	0.024	0.061	0.188	0.053
40	0.044	0.067	0.062	0.024	0.062	0.193	0.054
45	0.045	0.068	0.064	0.025	0.064	0.198	0.055
50	0.046	0.070	0.065	0.025	0.065	0.201	0.056
55	0.046	0.072	0.067	0.026	0.066	0.204	0.057
60	0.047	0.073	0.068	0.026	0.067	0.207	0.058

**Parenthetical SCREEN3 Assumptions  
For: Marymount Project  
Date: September 26, 2007**

**Conversions**

Construction Period	URBEMIS2002 PM <sub>10</sub> Emissions (lbs/day)	Conversion to SCREEN3 Input <sup>1</sup> [(grams/second)/meter <sup>2</sup> ]
Year 1	3.51	1.8 x 10 <sup>-7</sup>
Note: 1. The following conversion factors were utilized. <ul style="list-style-type: none"> <li>▪ 1 day = 86,400 seconds</li> <li>▪ 1 pound = 453.592 grams</li> <li>▪ 1 acre = 4,046.873 meters</li> </ul>		

**Simple Terrain Inputs**

Source Type:

Area

Emission Rate (grams/second/m<sup>2</sup>):

Construction Period	SCREEN3 Input <sup>1</sup> [(grams/second)/meter <sup>2</sup> ]
Year 2008	1.8 x 10 <sup>-7</sup>

Source Height:

3.0 meter

Area of Project Site:

25 acres = 101172 meters<sup>2</sup>

Receptor Height:

1.5 meters

Urban/Rural Option:

Urban

Search Through Range of Directions to Find the Maximum:

Yes

Choice of Meteorology:

Full Meteorology

Use Automated Distance Array:

Yes

Urban/Rural Option:

Urban

Enter Min and Max Distances to use (meters):

10 and 1000

Summary of SCREEN Model Results:

Maximum Concentration ( $\mu\text{g}/\text{m}^3$ )	Distance to Maximum Concentration (meters)
5.148	227

\*\*\* SCREEN3 MODEL RUN \*\*\*  
\*\*\* VERSION DATED 96043 \*\*\*

Marymount DPM SCREENING

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA  
EMISSION RATE (G/(S-M\*\*2)) = .180000E-06  
SOURCE HEIGHT (M) = 3.0000  
LENGTH OF LARGER SIDE (M) = 318.0000  
LENGTH OF SMALLER SIDE (M) = 318.0000  
RECEPTOR HEIGHT (M) = 1.5000  
URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.  
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = .000 M\*\*4/S\*\*3; MOM. FLUX = .000 M\*\*4/S\*\*2.

\*\*\* FULL METEOROLOGY \*\*\*

\*\*\*\*\*  
\*\*\* SCREEN AUTOMATED DISTANCES \*\*\*  
\*\*\*\*\*

\*\*\* TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES \*\*\*

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
10.	3.736	5	1.0	1.0	10000.0	3.00	45.
100.	4.476	5	1.0	1.0	10000.0	3.00	45.
200.	4.979	5	1.0	1.0	10000.0	3.00	45.
300.	3.541	5	1.0	1.0	10000.0	3.00	45.
400.	2.418	5	1.0	1.0	10000.0	3.00	45.
500.	1.867	5	1.0	1.0	10000.0	3.00	45.
600.	1.526	5	1.0	1.0	10000.0	3.00	45.
700.	1.290	5	1.0	1.0	10000.0	3.00	45.
800.	1.115	5	1.0	1.0	10000.0	3.00	45.
900.	.9785	5	1.0	1.0	10000.0	3.00	45.
1000.	.8695	5	1.0	1.0	10000.0	3.00	45.

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M:  
227. 5.148 5 1.0 1.0 10000.0 3.00 45.

\*\*\*\*\*  
\*\*\* SUMMARY OF SCREEN MODEL RESULTS \*\*\*  
\*\*\*\*\*

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	5.148	227.	0.

\*\*\*\*\*  
\*\* REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS \*\*  
\*\*\*\*\*



1 PVEast-Mi ral este. txt

2. Recpt	2	*	345.	*	4.6	*	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
3. Recpt	3	*	85.	*	4.5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4. Recpt	4	*	105.	*	4.5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1

RECEPTOR		*	*CONC/LI NK * (PPM)		
			9	10	11
1. Recpt	1	*	0.0	0.1	0.1
2. Recpt	2	*	0.0	0.1	0.1
3. Recpt	3	*	0.1	0.1	0.1
4. Recpt	4	*	0.0	0.1	0.0

1

Run Ended on 6/07/2007 at 10:38:06

1

3 PVEast-PVSouth.txt  
CALINE4 - (DATED CALINE4x)

3.0.0 PC (32 BIT) VERSION  
(C) COPYRIGHT 2000, TRINITY CONSULTANTS

Run Began on 6/07/2007 at 10:42:08

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
JUNE 1989 VERSION  
PAGE 1

JOB: 3. PV Drive East and PV Drive South  
RUN: Hour 1 (WORST CASE ANGLE)  
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S                      ZO= 100. CM                      ALT= 0. (M)  
BRG= WORST CASE                VD= 0.0 CM/S  
CLAS= 7 (G)                      VS= 0.0 CM/S  
MI XH= 1000. M                  AMB= 4.2 PPM  
SIGTH= 5. DEGREES              TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
1. Link A	6284	-181	6284	-246	AG	845	2.5	0.0	27.3
2. Link B	6284	-246	6284	-300	AG	722	5.6	0.0	27.3
3. Link C	6284	-300	6279	-453	AG	775	2.5	0.0	27.3
4. Link D	6297	-460	6298	-378	AG	663	2.5	0.0	27.3
5. Link E	6298	-378	6298	-319	AG	663	2.5	0.0	27.3
6. Link F	6298	-319	6297	-176	AG	663	2.5	0.0	27.3
7. Link G	6284	-265	6300	-314	AG	123	5.6	0.0	27.3
8. Link H	6300	-314	6462	-325	AG	123	2.5	0.0	27.3
9. Link I	6523	-313	6380	-311	AG	170	2.5	0.0	27.3
10. Link J	6380	-311	6298	-301	AG	117	5.6	0.0	27.3
11. Link K	6370	-310	6284	-326	AG	53	5.6	0.0	27.3

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. Recpt 1	6325	-280	1.7
2. Recpt 2	6315	-339	1.7
3. Recpt 3	6243	-327	1.7
4. Recpt 4	6246	-277	1.7

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	1	2	3	4	5	6	7	8
1. Recpt 1	201.	4.4	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

3 PVEast-PVSouth. txt															
2.	Recpt	2	*	343.	*	4.6	*	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0
3.	Recpt	3	*	37.	*	4.4	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4.	Recpt	4	*	106.	*	4.5	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

*CONC/LI NK					
* (PPM)					
RECEPTOR	*	9	10	11	*
1. Recpt	1	*	0.0	0.0	0.0
2. Recpt	2	*	0.0	0.0	0.0
3. Recpt	3	*	0.0	0.0	0.0
4. Recpt	4	*	0.0	0.0	0.0

1

Run Ended on 6/07/2007 at 10:42:08



4 Miral este-Vi aCol i na. txt

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* * * *	BRG (DEG)	* * * *	PRED CONC (PPM)	* * * *	1	2	3	CONC/LI NK (PPM)					4	5	6	7	8
1. Recpt 1	*	309.	*	4.5	*	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	
2. Recpt 2	*	99.	*	4.4	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3. Recpt 3	*	53.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
4. Recpt 4	*	179.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	

RECEPTOR	* * * *	9	10	11	CONC/LI NK (PPM)						12	13	14	15	16
1. Recpt 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. Recpt 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. Recpt 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. Recpt 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RECEPTOR	* * * *	*CONC/LI NK (PPM)				17	18	19	20
1. Recpt 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. Recpt 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. Recpt 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. Recpt 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1

Run Ended on 6/07/2007 at 10:47:48



1 PVEast-Mi ral este. txt

2.	Recpt	2	*	344.	*	4.5	*	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
3.	Recpt	3	*	85.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.	Recpt	4	*	105.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RECEPTOR		*CONC/LI NK *(PPM)	9	10	11	
1.	Recpt	1	*	0.0	0.0	0.1
2.	Recpt	2	*	0.0	0.0	0.1
3.	Recpt	3	*	0.0	0.0	0.1
4.	Recpt	4	*	0.0	0.0	0.0

1

Run Ended on 6/07/2007 at 10:50:52

1

3 PVEast-PVSouth.txt  
CALINE4 - (DATED CALINE4x)

3.0.0 PC (32 BIT) VERSION  
(C) COPYRIGHT 2000, TRINITY CONSULTANTS

Run Began on 6/07/2007 at 10:55:06

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL  
JUNE 1989 VERSION  
PAGE 1

JOB: 3. PV Drive East and PV Drive South  
RUN: Hour 1 (WORST CASE ANGLE)  
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S                      ZO= 100. CM                      ALT= 0. (M)  
BRG= WORST CASE                VD= 0.0 CM/S  
CLAS= 7 (G)                      VS= 0.0 CM/S  
MI XH= 1000. M                  AMB= 4.2 PPM  
SIGTH= 5. DEGREES              TEMP= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
1. Link A	6284	-181	6284	-246	AG	134	2.5	0.0	27.3
2. Link B	6284	-246	6284	-300	AG	86	5.6	0.0	27.3
3. Link C	6284	-300	6279	-453	AG	134	2.5	0.0	27.3
4. Link D	6297	-460	6298	-378	AG	814	2.5	0.0	27.3
5. Link E	6298	-378	6298	-319	AG	814	2.5	0.0	27.3
6. Link F	6298	-319	6297	-176	AG	814	2.5	0.0	27.3
7. Link G	6284	-265	6300	-314	AG	48	5.6	0.0	27.3
8. Link H	6300	-314	6462	-325	AG	48	2.5	0.0	27.3
9. Link I	6523	-313	6380	-311	AG	789	2.5	0.0	27.3
10. Link J	6380	-311	6298	-301	AG	695	5.6	0.0	27.3
11. Link K	6370	-310	6284	-326	AG	94	5.6	0.0	27.3

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. Recpt 1	6325	-280	1.7
2. Recpt 2	6315	-339	1.7
3. Recpt 3	6243	-327	1.7
4. Recpt 4	6246	-277	1.7

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	1	2	3	4	5	6	7	8
1. Recpt 1	196.	4.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0

3 PVEast-PVSouth.txt

2.	Recpt	2	*	347.	*	4.6	*	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
3.	Recpt	3	*	82.	*	4.5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.	Recpt	4	*	104.	*	4.5	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RECEPTOR		*CONC/LINK *(PPM)	9	10	11	
1.	Recpt	1	*	0.0	0.1	0.0
2.	Recpt	2	*	0.0	0.1	0.0
3.	Recpt	3	*	0.1	0.1	0.0
4.	Recpt	4	*	0.1	0.2	0.0

1

Run Ended on 6/07/2007 at 10:55:06



4 Miral este-Vi aCol i na. txt

IV. MODEL RESULTS (WORST CASE WIND ANGLE )

RECEPTOR	* * * *	BRG (DEG)	* * * *	PRED CONC (PPM)	* * * *	1	2	3	CONC/LI NK (PPM)					8
1. Recpt 1	*	309.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
2. Recpt 2	*	97.	*	4.4	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3. Recpt 3	*	8.	*	4.4	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
4. Recpt 4	*	179.	*	4.4	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	

RECEPTOR	* * * *	9	10	11	CONC/LI NK (PPM)					
1. Recpt 1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. Recpt 2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. Recpt 3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. Recpt 4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RECEPTOR	* * * *	*CONC/LI NK (PPM)			
1. Recpt 1	*	17	18	19	20
2. Recpt 2	*	0.0	0.0	0.0	0.0
3. Recpt 3	*	0.0	0.0	0.0	0.0
4. Recpt 4	*	0.0	0.0	0.0	0.0

1

Run Ended on 6/07/2007 at 10:53:27