

**APPENDIX A**

**DOCUMENTATION OF POTENTIAL CHANGES TO  
AIR QUALITY IMPACTS**

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**Los Angeles Mission College Facilities Master Plan EIR Addendum  
Documentation of Potential Changes to Air Quality Impacts  
March 9, 2009**

**Background**

The Los Angeles Mission College Facilities Master Plan (The Project) is located on two sites in the San Fernando Valley in the Sylmar community of the City of Los Angeles, approximately 20 miles northwest of downtown Los Angeles. The Los Angeles Mission College (LAMC or College) is one of nine colleges included within the Los Angeles Community College District (LACCD or District) and is the northernmost campus location within the District.

The project sites are the existing Los Angeles Mission College campus located at 13356 Eldridge Avenue, and two vacant parcels located at the southeast corner of Eldridge Avenue and Harding Street (Harding Street site).

The LAMC Campus site is bound by Hubbard Street to the northwest, Eldridge Avenue to the southwest; El Cariso Golf Course to the southeast, and Lexicon Avenue to the northeast. The Harding Street site is bound by Harding Street to the north; Cranston Avenue to the west; Kismet Avenue to the southeast; and Maclay Street to the east. The overall site lies within predominantly single-family, low-density residential areas, with parks, golf course, schools, churches, and some neighborhood commercial businesses located approximately 1/3<sup>rd</sup> mile northwest of the LAMC campus. The El Cariso Community Regional County Park is located directly to the northeast of the existing LAMC campus and El Cariso County Golf Course is directly to the southeast. The Sylmar Independent Baseball League (SIBL) fields are also located to the northeast of the County Recreation Area. Mountain Glen and Santiago Estates residential communities are located to the east of the project site across Pacoima Wash. In addition, the Angeles National Forest is located approximately one mile north and east of the project site.

The Los Angeles Community College District (District) and Los Angeles Mission College (LAMC) prepared the LAMC Master Plan in 2006 to guide the orderly development of instructional and support facilities in order to accommodate increased enrollment through 2015.

LAMC is proposing minor revisions to the original Master Plan. The proposed Master Plan revisions include modifications to Building #6, Parking Structure B1, and Parking Structure B2.

**Proposed Changes**

1. Building #6 was originally sited on the main LAMC Campus in the Master Plan. Building #6 is a 2-story building comprised of 30,000 square feet of building area and 48,100 gross square feet of land area. It is slated for construction period between 2011-2015 and would be built in Phase 2A. The proposed revision will combine Building #6 with Building #5 into one building at the Harding Street site. Collectively, Buildings #5 and #6 will be known as the Education and Laboratory Building and will include 63,727 gross square feet of building area.

2. Parking Structure B1 is an underground parking structure comprised of 2 floors and 550 parking spaces located on the Harding Street Site. Parking Structure B1 would have a land area of 242,939 gross square feet, a construction period between 2011-2015, and would be built in Phase 2B. The proposed revision to the Master Plan is to create surface parking instead of underground parking and reduce the number of parking stalls from 550 to 400.
3. Parking Structure B2 is an aboveground parking structure comprised of 3 floors and 370 parking spaces located on the main LAMC Campus. Parking Structure B2 would have a land area of 45,603 gross square feet, a construction period between 2011-2015, and would be built in Phase 1A. The proposed revision to the Master Plan is to remove the parking structure completely from the Master Plan, thus reduce the number of parking stalls from 370 to 0.

Enrollment at the College will not be affected by these changes. The total square footage of the proposed Master Plan will not be affected by these changes.

The result of the proposed changes on the air quality analysis is summarized in the following sections.

## **Changes to Construction Emissions**

To assess potential impacts to air quality within the Master Plan EIR, the URBEMIS2002 Version 8.7.0 model was previously used to estimate peak daily emissions from project construction. The URBEMIS model has since been updated and URBEMIS2007 Version 9.2.4 was utilized to estimate peak daily emissions from the revised Master Plan. Among other model improvements, URBEMIS2007 uses the most recent emission factors verified by the California Air Resources Board (CARB). Therefore, the emissions estimated using the newer model is considered to be a more accurate representation of the emissions to be generated by the project.

The approach in the air quality analysis within the EIR was developed to evaluate a conservative “worst-case” scenario of construction-related emissions. The same approach and the same construction assumptions were used to evaluate the emissions associated with the revised Master Plan. The changes that affect the air quality analysis are as follows:

- ♦ Education Buildings #5 and #6 will be combined to one Education and Laboratory Building that will include 63,727 gross square feet of building area instead of the previously analyzed 60,000 gross square feet, therefore, the emissions analysis was updated to reflect the increase in building area.
- ♦ Parking Structure B1 will be surface parking instead of underground parking; therefore, the emissions analysis was updated to reflect the decrease in building area.
- ♦ Parking Structure B2 has been removed from the Master Plan; therefore, the emissions analysis was updated to reflect the fact that there will no longer be construction-related emissions from this structure.

A summary of the maximum daily construction emissions generated by the projects within the revised Master Plan are presented below. The emissions are compared to the South Coast Air Quality Management District's (SCAQMD) regional thresholds of significance for construction.

**Table 1, Maximum Daily Construction Emissions**

Construction Project	Year Analyzed	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>	PM <sub>10</sub>
		(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
Health, PE and Fitness Center	2007	88.26	59.65	45.21	0.01	13.90
Family and Consumer Studies with Bookstore	2009	79.06	41.17	40.38	0.00	13.51
Media Arts	2010	74.78	22.79	32.28	0.00	13.34
Plant Facilities	2011	70.17	30.14	36.33	0.00	13.08
Parking Structure (B2)	2012	0.00	0.00	0.00	0.00	0.00
Student Services	2013	61.69	62.01	33.00	0.01	12.66
Parking (B1)	2014	57.20	6.94	31.62	0.03	12.42
Education and Laboratory Building	2015	52.49	35.98	30.34	0.00	12.23
<b>SCAQMD Construction Thresholds</b>		<b>100</b>	<b>75</b>	<b>550</b>	<b>150</b>	<b>150</b>
<b>Exceeds Threshold?</b>		<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Estimated emissions from the construction of the revised Master Plan would be less than the estimated emissions for the original Master Plan analyzed in the EIR. The maximum daily emissions from NO<sub>x</sub> are no longer anticipated to exceed the SCAQMD regional thresholds of significance. The maximum daily emissions from VOC, CO, SO<sub>x</sub> and PM<sub>10</sub> would continue to not exceed the regional thresholds of significance. The overall decrease in emissions can be attributed in part to the use of the currently approved version of the URBEMIS model.

### **Changes to Operational Emissions**

Operational emissions previously analyzed in the EIR consist of the vehicle emissions associated with the additional 7,465 students over and above existing enrollment numbers at the College anticipated in Fall 2015. The revisions to the Master Plan will not affect the proposed enrollment at the College. However, the EMFAC2002 Version 2.2 emission factors were previously used to estimate emissions from passenger vehicles. The EMFAC emission factors have since been updated and EMFAC2007 Version 2.3 was utilized to re-estimate operational emissions from the Master Plan. Therefore, the emissions estimated using the newer emission factors is considered to be a more accurate representation of the emissions to be generated by the project.

The same methodology and assumptions in the air quality analysis within the EIR were used to estimate operational emissions associated with the revised Master Plan. Average daily trips (ADT) were derived by multiplying the number of students x the trip generation rate of 1.2 trips per student. Emissions were calculated as ADT x trip length (12 miles) x emission factor.

A summary of the daily operational emissions to be generated by the project is presented below. The emissions are compared to SCAQMD's regional thresholds of significance for operation.

**Table 2, Maximum Daily Operational Emissions**

Enrollment	ADT	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>	PM <sub>10</sub>
		(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
7,465 students	8,958	64.70	71.33	660.14	1.15	9.95
<b>SCAQMD Operational Thresholds</b>		<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>
<b>Exceeds Threshold?</b>		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>No</b>

Estimated emissions from the operation of the revised Master Plan for NO<sub>x</sub>, VOC and CO would be less than the estimated emissions from the original Master Plan analyzed in the EIR, but will continue to exceed the regional thresholds of significance. Estimated emissions for SO<sub>x</sub> and PM<sub>10</sub> would be greater than the estimated emissions from the EIR, but will continue not to exceed the thresholds of significance. Since the revisions to the Master Plan did not affect the proposed enrollment, the overall fluctuation in emissions can be attributed to the use of the currently approved EMFAC2007 emission factors.

## Summary

LAMC is proposing minor revisions to the original Master Plan. The proposed Master Plan revisions include modifications to Building #5 and Building #6, Parking Structure B1, and Parking Structure B2.

Estimated emissions from the construction of the revised Master Plan would be less than the construction emissions presented in the EIR. Emissions from NO<sub>x</sub> are no longer anticipated to exceed thresholds of significance. No new impacts to construction emissions were found.

Estimated emissions from the operation of the revised Master Plan would be less than the operational emissions presented in the EIR for NO<sub>x</sub>, VOC, and CO, but greater than the estimated emissions for SO<sub>x</sub> and PM<sub>10</sub>; however, significance determinations concluded from emissions compared to the regional thresholds remain the same. Student enrollment will not be affected by the revised Master Plan. No new impacts to operational emissions were found.

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Health, PE and Fitness Center.urb924

Project Name: Mission College

Project Location: Los Angeles County

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>
2007 TOTALS (lbs/day unmitigated)	59.65	88.26	45.21	0.01	10.01	3.89	13.90	2.09	3.57	5.67	7,198.97

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 1/1/2007-1/19/2007	9.73	<b>88.26</b>	<b>45.21</b>	0.00	<b>10.01</b>	<b>3.89</b>	<b>13.90</b>	<b>2.09</b>	<b>3.57</b>	<b>5.67</b>	<b>7,198.97</b>
Active Days: 15											
Mass Grading 01/01/2007-01/19/2007	9.73	88.26	45.21	0.00	10.01	3.89	13.90	2.09	3.57	5.67	7,198.97
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	9.64	88.09	42.56	0.00	0.00	3.88	3.88	0.00	3.57	3.57	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.09	0.17	2.66	0.00	0.01	0.01	0.02	0.00	0.01	0.01	249.07

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Time Slice 1/22/2007-2/9/2007 Active Days: 15	9.73	<b>88.26</b>	<b>45.21</b>	0.00	<b>10.01</b>	<b>3.89</b>	<b>13.90</b>	<b>2.09</b>	<b>3.57</b>	<b>5.67</b>	<b>7,198.97</b>
Fine Grading 01/22/2007-02/09/2007	9.73	88.26	45.21	0.00	10.01	3.89	13.90	2.09	3.57	5.67	7,198.97
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	9.64	88.09	42.56	0.00	0.00	3.88	3.88	0.00	3.57	3.57	6,949.90
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.09	0.17	2.66	0.00	0.01	0.01	0.02	0.00	0.01	0.01	249.07
Time Slice 2/12/2007-11/23/2007 Active Days: 205	5.60	53.89	25.99	<b>0.01</b>	0.02	2.11	2.13	0.01	1.94	1.95	5,133.59
Building 02/12/2007-11/23/2007	5.60	53.89	25.99	0.01	0.02	2.11	2.13	0.01	1.94	1.95	5,133.59
Building Off Road Diesel	5.38	52.89	20.88	0.00	0.00	2.07	2.07	0.00	1.90	1.90	4,602.52
Building Vendor Trips	0.06	0.72	0.60	0.00	0.00	0.03	0.04	0.00	0.03	0.03	108.56
Building Worker Trips	0.15	0.28	4.51	0.00	0.02	0.01	0.03	0.01	0.01	0.02	422.50
Time Slice 11/26/2007-12/21/2007 Active Days: 20	<b>59.65</b>	19.80	10.75	0.00	0.01	1.26	1.27	0.00	1.16	1.16	1,664.82
Asphalt 11/26/2007-12/21/2007	2.84	19.75	9.87	0.00	0.01	1.26	1.26	0.00	1.16	1.16	1,582.30
Paving Off-Gas	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.62	18.98	8.58	0.00	0.00	1.22	1.22	0.00	1.12	1.12	1,412.83
Paving On Road Diesel	0.06	0.70	0.29	0.00	0.00	0.03	0.04	0.00	0.03	0.03	76.07
Paving Worker Trips	0.03	0.06	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.40
Coating 11/26/2007-12/21/2007	56.81	0.06	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00	82.52
Architectural Coating	56.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.03	0.06	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.00	82.52

Phase Assumptions

Phase: Fine Grading 1/22/2007 - 2/9/2007 - Default Fine Site Grading/Excavation Description

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Total Acres Disturbed: 2.43

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/1/2007 - 1/19/2007 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 2.43

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Paving 11/26/2007 - 12/21/2007 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/12/2007 - 11/23/2007 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/26/2007 - 12/21/2007 - 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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Family and Consumer Studies w Bookstore.urb924

Project Name: Mission College

Project Location: Los Angeles County

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)	41.17	79.06	40.38	0.00	10.01	3.50	13.51	2.09	3.22	5.31	7,198.67

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 1/5/2009-1/23/2009 Active Days: 15	8.85	<b>79.06</b>	<b>40.38</b>	0.00	<b>10.01</b>	<b>3.50</b>	<b>13.51</b>	<b>2.09</b>	<b>3.22</b>	<b>5.31</b>	<b>7,198.67</b>
Mass Grading 01/05/2009-01/23/2009	8.85	79.06	40.38	0.00	10.01	3.50	13.51	2.09	3.22	5.31	7,198.67
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	8.78	78.92	38.06	0.00	0.00	3.49	3.49	0.00	3.21	3.21	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.08	0.14	2.32	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.77

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Time Slice 1/26/2009-2/13/2009 Active Days: 15	8.85	<b>79.06</b>	<b>40.38</b>	0.00	<b>10.01</b>	<b>3.50</b>	<b>13.51</b>	<b>2.09</b>	<b>3.22</b>	<b>5.31</b>	<b>7,198.67</b>
Fine Grading 01/26/2009-02/13/2009	8.85	79.06	40.38	0.00	10.01	3.50	13.51	2.09	3.22	5.31	7,198.67
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	8.78	78.92	38.06	0.00	0.00	3.49	3.49	0.00	3.21	3.21	6,949.90
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	0.08	0.14	2.32	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.77
Time Slice 2/16/2009-11/27/2009 Active Days: 205	5.06	47.35	21.01	<b>0.00</b>	0.02	1.82	1.84	0.01	1.68	1.68	4,963.15
Building 02/16/2009-11/27/2009	5.06	47.35	21.01	0.00	0.02	1.82	1.84	0.01	1.68	1.68	4,963.15
Building Off Road Diesel	4.93	46.75	17.97	0.00	0.00	1.80	1.80	0.00	1.65	1.65	4,602.52
Building Vendor Trips	0.04	0.43	0.35	0.00	0.00	0.02	0.02	0.00	0.02	0.02	73.81
Building Worker Trips	0.09	0.16	2.68	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.82
Time Slice 11/30/2009-12/25/2009 Active Days: 20	<b>41.17</b>	17.86	9.59	0.00	0.01	1.15	1.16	0.00	1.06	1.06	1,638.21
Asphalt 11/30/2009-12/25/2009	2.56	17.82	9.07	0.00	0.01	1.15	1.16	0.00	1.06	1.06	1,582.19
Paving Off-Gas	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.35	17.15	7.95	0.00	0.00	1.12	1.12	0.00	1.03	1.03	1,412.83
Paving On Road Diesel	0.05	0.62	0.25	0.00	0.00	0.03	0.03	0.00	0.02	0.03	76.07
Paving Worker Trips	0.03	0.05	0.87	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.29
Coating 11/30/2009-12/25/2009	38.61	0.03	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.02
Architectural Coating	38.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.02

Phase Assumptions

Phase: Fine Grading 1/26/2009 - 2/13/2009 - Default Fine Site Grading/Excavation Description

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Total Acres Disturbed: 1.65

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/5/2009 - 1/23/2009 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 1.65

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Paving 11/30/2009 - 12/25/2009 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/16/2009 - 11/27/2009 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/30/2009 - 12/25/2009 - 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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Media Arts.urb924

Project Name: Mission College

Project Location: Los Angeles County

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>
2010 TOTALS (lbs/day unmitigated)	22.79	74.78	38.28	0.00	10.01	3.33	13.34	2.09	3.07	5.16	7,198.59

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 1/4/2010-1/22/2010 Active Days: 15	8.44	<b>74.78</b>	<b>38.28</b>	<b>0.00</b>	<b>10.01</b>	<b>3.33</b>	<b>13.34</b>	<b>2.09</b>	<b>3.07</b>	<b>5.16</b>	<b>7,198.59</b>
Mass Grading 01/04/2010-01/22/2010	8.44	74.78	38.28	0.00	10.01	3.33	13.34	2.09	3.07	5.16	7,198.59
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	8.37	74.65	36.10	0.00	0.00	3.33	3.33	0.00	3.06	3.06	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.07	0.13	2.17	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.69

**3/4/2009 6:01:18 PM**

Time Slice 1/25/2010-2/12/2010 Active Days: 15	8.44	<b><u>74.78</u></b>	<b><u>38.28</u></b>	<b><u>0.00</u></b>	<b><u>10.01</u></b>	<b><u>3.33</u></b>	<b><u>13.34</u></b>	<b><u>2.09</u></b>	<b><u>3.07</u></b>	<b><u>5.16</u></b>	<b><u>7,198.59</u></b>
Fine Grading 01/25/2010-02/12/2010	8.44	74.78	38.28	0.00	10.01	3.33	13.34	2.09	3.07	5.16	7,198.59
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	8.37	74.65	36.10	0.00	0.00	3.33	3.33	0.00	3.06	3.06	6,949.90
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	0.07	0.13	2.17	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.69
Time Slice 2/15/2010-11/26/2010 Active Days: 205	4.80	44.34	18.35	0.00	0.01	1.70	1.71	0.00	1.56	1.57	4,792.95
Building 02/15/2010-11/26/2010	4.80	44.34	18.35	0.00	0.01	1.70	1.71	0.00	1.56	1.57	4,792.95
Building Off Road Diesel	4.74	44.05	16.85	0.00	0.00	1.69	1.69	0.00	1.55	1.55	4,602.52
Building Vendor Trips	0.02	0.21	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	38.98
Building Worker Trips	0.04	0.08	1.32	0.00	0.01	0.00	0.01	0.00	0.00	0.01	151.44
Time Slice 11/29/2010-12/24/2010 Active Days: 20	<b><u>22.79</u></b>	16.91	8.99	0.00	0.01	1.12	1.12	0.00	1.03	1.03	1,611.73
Asphalt 11/29/2010-12/24/2010	2.40	16.90	8.73	0.00	0.01	1.11	1.12	0.00	1.02	1.03	1,582.15
Paving Off-Gas	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.20	16.28	7.68	0.00	0.00	1.09	1.09	0.00	1.00	1.00	1,412.83
Paving On Road Diesel	0.05	0.57	0.23	0.00	0.00	0.02	0.03	0.00	0.02	0.02	76.07
Paving Worker Trips	0.03	0.05	0.82	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.26
Coating 11/29/2010-12/24/2010	20.39	0.02	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.58
Architectural Coating	20.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.58

Phase Assumptions

Phase: Fine Grading 1/25/2010 - 2/12/2010 - Default Fine Site Grading/Excavation Description

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**3/4/2009 6:01:18 PM**

Total Acres Disturbed: 0.87

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/4/2010 - 1/22/2010 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 0.87

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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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**3/4/2009 6:01:18 PM**

Phase: Paving 11/29/2010 - 12/24/2010 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/15/2010 - 11/26/2010 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/29/2010 - 12/24/2010 - 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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Plant Facilities.urb924

Project Name: Mission College

Project Location: Los Angeles County

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>
2011 TOTALS (lbs/day unmitigated)	30.14	70.17	36.33	0.00	10.01	3.07	13.08	2.09	2.82	4.91	7,198.54

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 1/3/2011-1/21/2011	7.97	<b>70.17</b>	<b>36.33</b>	0.00	<b>10.01</b>	<b>3.07</b>	<b>13.08</b>	<b>2.09</b>	<b>2.82</b>	<b>4.91</b>	<b>7,198.54</b>
Active Days: 15											
Mass Grading 01/03/2011-01/21/2011	7.97	70.17	36.33	0.00	10.01	3.07	13.08	2.09	2.82	4.91	7,198.54
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	7.90	70.05	34.30	0.00	0.00	3.06	3.06	0.00	2.81	2.81	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.06	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.63

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Time Slice 1/24/2011-2/11/2011 Active Days: 15	7.97	<b><u>70.17</u></b>	<b><u>36.33</u></b>	0.00	<b><u>10.01</u></b>	<b><u>3.07</u></b>	<b><u>13.08</u></b>	<b><u>2.09</u></b>	<b><u>2.82</u></b>	<b><u>4.91</u></b>	<b><u>7,198.54</u></b>
Fine Grading 01/24/2011-02/11/2011	7.97	70.17	36.33	0.00	10.01	3.07	13.08	2.09	2.82	4.91	7,198.54
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	7.90	70.05	34.30	0.00	0.00	3.06	3.06	0.00	2.81	2.81	6,949.90
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	0.06	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.63
Time Slice 2/14/2011-11/25/2011 Active Days: 205	4.55	41.22	17.62	<b><u>0.00</u></b>	0.01	1.53	1.54	0.00	1.41	1.41	4,862.65
Building 02/14/2011-11/25/2011	4.55	41.22	17.62	0.00	0.01	1.53	1.54	0.00	1.41	1.41	4,862.65
Building Off Road Diesel	4.48	40.86	15.71	0.00	0.00	1.52	1.52	0.00	1.39	1.39	4,602.52
Building Vendor Trips	0.02	0.26	0.22	0.00	0.00	0.01	0.01	0.00	0.01	0.01	53.26
Building Worker Trips	0.05	0.10	1.69	0.00	0.01	0.01	0.02	0.00	0.00	0.01	206.86
Time Slice 11/28/2011-12/23/2011 Active Days: 20	<b><u>30.14</u></b>	15.96	8.75	0.00	0.01	1.06	1.07	0.00	0.98	0.98	1,622.54
Asphalt 11/28/2011-12/23/2011	2.29	15.94	8.42	0.00	0.01	1.06	1.07	0.00	0.98	0.98	1,582.13
Paving Off-Gas	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.09	15.38	7.45	0.00	0.00	1.04	1.04	0.00	0.96	0.96	1,412.83
Paving On Road Diesel	0.04	0.51	0.21	0.00	0.00	0.02	0.02	0.00	0.02	0.02	76.07
Paving Worker Trips	0.02	0.04	0.76	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.24
Coating 11/28/2011-12/23/2011	27.86	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.40
Architectural Coating	27.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.40

Phase Assumptions

Phase: Fine Grading 1/24/2011 - 2/11/2011 - Default Fine Site Grading/Excavation Description

**3/4/2009 5:21:11 PM**

Total Acres Disturbed: 3.29

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/3/2011 - 1/21/2011 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 3.29

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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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**3/4/2009 5:21:11 PM**

Phase: Paving 11/28/2011 - 12/23/2011 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/14/2011 - 11/25/2011 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/28/2011 - 12/23/2011 - 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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Student Services.urb924

Project Name: Mission College

Project Location: Los Angeles County

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)	62.01	61.69	33.00	0.01	10.01	2.64	12.66	2.09	2.43	4.52	7,198.46

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 1/7/2013-1/25/2013 Active Days: 15	7.30	<b>61.69</b>	<b>33.00</b>	0.00	<b>10.01</b>	<b>2.64</b>	<b>12.66</b>	<b>2.09</b>	<b>2.43</b>	<b>4.52</b>	<b>7,198.46</b>
Mass Grading 01/07/2013-01/25/2013	7.30	61.69	33.00	0.00	10.01	2.64	12.66	2.09	2.43	4.52	7,198.46
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	7.25	61.59	31.24	0.00	0.00	2.64	2.64	0.00	2.43	2.43	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.05	0.10	1.76	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.56

**3/4/2009 5:28:16 PM**

Time Slice 1/28/2013-2/15/2013 Active Days: 15	7.30	<b><u>61.69</u></b>	<b><u>33.00</u></b>	0.00	<b><u>10.01</u></b>	<b><u>2.64</u></b>	<b><u>12.66</u></b>	<b><u>2.09</u></b>	<b><u>2.43</u></b>	<b><u>4.52</u></b>	<b><u>7,198.46</u></b>
Fine Grading 01/28/2013-02/15/2013	7.30	61.69	33.00	0.00	10.01	2.64	12.66	2.09	2.43	4.52	7,198.46
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	7.25	61.59	31.24	0.00	0.00	2.64	2.64	0.00	2.43	2.43	6,949.90
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	0.05	0.10	1.76	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.56
Time Slice 2/18/2013-11/15/2013 Active Days: 195	4.35	36.11	19.33	<b><u>0.01</u></b>	0.04	1.39	1.43	0.01	1.28	1.29	5,442.84
Building 02/18/2013-11/15/2013	4.35	36.11	19.33	0.01	0.04	1.39	1.43	0.01	1.28	1.29	5,442.84
Building Off Road Diesel	4.15	35.18	13.98	0.00	0.00	1.34	1.34	0.00	1.24	1.24	4,602.52
Building Vendor Trips	0.07	0.66	0.61	0.00	0.01	0.03	0.03	0.00	0.03	0.03	172.11
Building Worker Trips	0.14	0.27	4.73	0.01	0.03	0.02	0.05	0.01	0.02	0.03	668.20
Time Slice 11/18/2013-12/27/2013 Active Days: 30	<b><u>62.01</u></b>	14.04	8.46	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,643.75
Asphalt 11/18/2013-12/27/2013	2.01	14.00	7.84	0.00	0.01	0.93	0.94	0.00	0.85	0.86	1,556.75
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.88	13.69	7.07	0.00	0.00	0.92	0.92	0.00	0.84	0.84	1,412.83
Paving On Road Diesel	0.02	0.27	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	50.71
Paving Worker Trips	0.02	0.04	0.66	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.21
Coating 11/18/2013-12/27/2013	60.01	0.03	0.62	0.00	0.00	0.00	0.01	0.00	0.00	0.00	87.01
Architectural Coating	59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.62	0.00	0.00	0.00	0.01	0.00	0.00	0.00	87.01

Phase Assumptions

Phase: Fine Grading 1/28/2013 - 2/15/2013 - Default Fine Site Grading/Excavation Description

**3/4/2009 5:28:16 PM**

Total Acres Disturbed: 3.86

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/7/2013 - 1/25/2013 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 3.86

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

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

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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

1 Scrapers (313 hp) operating at a 0.72 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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**3/4/2009 5:28:16 PM**

Phase: Paving 11/18/2013 - 12/27/2013 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/18/2013 - 11/15/2013 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/18/2013 - 12/27/2013 - Default Architectural Coating Description

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

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

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

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

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

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

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Parking (B1).urb924

Project Name: Mission College

Project Location: Los Angeles County

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>
2014 TOTALS (lbs/day unmitigated)	6.94	57.20	31.62	0.03	10.01	2.41	12.42	2.09	2.22	4.31	7,198.43

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 1/6/2014-1/24/2014	<b>6.94</b>	<b>57.20</b>	<b>31.62</b>	0.00	<b>10.01</b>	<b>2.41</b>	<b>12.42</b>	<b>2.09</b>	<b>2.22</b>	<b>4.31</b>	<b>7,198.43</b>
Active Days: 15											
Mass Grading 01/06/2014-01/24/2014	6.94	57.20	31.62	0.00	10.01	2.41	12.42	2.09	2.22	4.31	7,198.43
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	6.89	57.11	29.98	0.00	0.00	2.41	2.41	0.00	2.21	2.21	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.05	0.09	1.64	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.53

**3/4/2009 5:15:27 PM**

Time Slice 1/27/2014-2/14/2014 Active Days: 15	<u>6.94</u>	<u>57.20</u>	<u>31.62</u>	0.00	<u>10.01</u>	<u>2.41</u>	<u>12.42</u>	<u>2.09</u>	<u>2.22</u>	<u>4.31</u>	<u>7,198.43</u>
Fine Grading 01/27/2014-02/14/2014	6.94	57.20	31.62	0.00	10.01	2.41	12.42	2.09	2.22	4.31	7,198.43
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	6.89	57.11	29.98	0.00	0.00	2.41	2.41	0.00	2.21	2.21	6,949.90
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	0.05	0.09	1.64	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.53
Time Slice 2/17/2014-11/28/2014 Active Days: 205	4.51	34.36	27.69	<u>0.03</u>	0.11	1.33	1.44	0.04	1.22	1.26	7,032.34
Building 02/17/2014-11/28/2014	4.51	34.36	27.69	0.03	0.11	1.33	1.44	0.04	1.22	1.26	7,032.34
Building Off Road Diesel	3.96	31.96	13.28	0.00	0.00	1.20	1.20	0.00	1.11	1.11	4,602.52
Building Vendor Trips	0.17	1.69	1.63	0.00	0.02	0.07	0.09	0.01	0.06	0.07	497.72
Building Worker Trips	0.38	0.72	12.77	0.02	0.09	0.05	0.15	0.03	0.05	0.08	1,932.10
Time Slice 12/1/2014-12/26/2014 Active Days: 20	2.77	14.98	8.39	0.01	0.02	0.93	0.95	0.01	0.86	0.86	1,962.46
Asphalt 12/01/2014-12/26/2014	2.77	14.98	8.39	0.01	0.02	0.93	0.95	0.01	0.86	0.86	1,962.46
Paving Off-Gas	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.77	12.80	6.90	0.00	0.00	0.85	0.85	0.00	0.78	0.78	1,412.83
Paving On Road Diesel	0.19	2.15	0.87	0.00	0.02	0.08	0.10	0.00	0.08	0.08	456.43
Paving Worker Trips	0.02	0.03	0.62	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.20

Phase Assumptions

Phase: Fine Grading 1/27/2014 - 2/14/2014 - Default Fine Site Grading/Excavation Description  
 Total Acres Disturbed: 3.86  
 Maximum Daily Acreage Disturbed: 1  
 Fugitive Dust Level of Detail: Default  
 10 lbs per acre-day

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**3/4/2009 5:15:27 PM**

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/6/2014 - 1/24/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 3.86

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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 12/1/2014 - 12/26/2014 - Default Paving Description

Acres to be Paved: 6

Off-Road Equipment:

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**3/4/2009 5:15:27 PM**

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 Surfacing Equipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/17/2014 - 11/28/2014 - Structure Construction

Off-Road Equipment:

1 Cranes (190 hp) operating at a 0.43 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

2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Tammy\_Chavez\My Documents\LAMC\Education and Laboratory Building.urb924

Project Name: Mission College

Project Location: Los Angeles County

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2015 TOTALS (lbs/day unmitigated)	35.98	52.49	30.34	0.00	10.01	2.22	12.23	2.09	2.04	4.13	7,198.41

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 1/5/2015-1/23/2015	6.53	<b>52.49</b>	<b>30.34</b>	0.00	<b>10.01</b>	<b>2.22</b>	<b>12.23</b>	<b>2.09</b>	<b>2.04</b>	<b>4.13</b>	<b>7,198.41</b>
Active Days: 15											
Mass Grading 01/05/2015-01/23/2015	6.53	52.49	30.34	0.00	10.01	2.22	12.23	2.09	2.04	4.13	7,198.41
Mass Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Mass Grading Off Road Diesel	6.49	52.41	28.81	0.00	0.00	2.21	2.21	0.00	2.03	2.03	6,949.90
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.04	0.08	1.53	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.51

**3/4/2009 5:49:31 PM**

Time Slice 1/26/2015-2/13/2015 Active Days: 15	6.53	<b><u>52.49</u></b>	<b><u>30.34</u></b>	0.00	<b><u>10.01</u></b>	<b><u>2.22</u></b>	<b><u>12.23</u></b>	<b><u>2.09</u></b>	<b><u>2.04</u></b>	<b><u>4.13</u></b>	<b><u>7,198.41</u></b>
Fine Grading 01/26/2015-02/13/2015	6.53	52.49	30.34	0.00	10.01	2.22	12.23	2.09	2.04	4.13	7,198.41
Fine Grading Dust	0.00	0.00	0.00	0.00	10.00	0.00	10.00	2.09	0.00	2.09	0.00
Fine Grading Off Road Diesel	6.49	52.41	28.81	0.00	0.00	2.21	2.21	0.00	2.03	2.03	6,949.90
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	0.08	1.53	0.00	0.01	0.01	0.02	0.00	0.01	0.01	248.51
Time Slice 2/16/2015-11/27/2015 Active Days: 205	3.76	29.27	14.46	<b><u>0.00</u></b>	0.01	1.08	1.09	0.01	0.99	0.99	4,921.16
Building 02/16/2015-11/27/2015	3.76	29.27	14.46	0.00	0.01	1.08	1.09	0.01	0.99	0.99	4,921.16
Building Off Road Diesel	3.69	28.99	12.70	0.00	0.00	1.06	1.06	0.00	0.98	0.98	4,602.52
Building Vendor Trips	0.02	0.19	0.20	0.00	0.00	0.01	0.01	0.00	0.01	0.01	65.27
Building Worker Trips	0.05	0.09	1.56	0.00	0.01	0.01	0.02	0.00	0.01	0.01	253.36
Time Slice 11/30/2015-12/25/2015 Active Days: 20	<b><u>35.98</u></b>	12.27	7.78	0.00	0.01	0.78	0.79	0.00	0.72	0.72	1,631.57
Asphalt 11/30/2015-12/25/2015	1.85	12.26	7.48	0.00	0.01	0.78	0.79	0.00	0.72	0.72	1,582.09
Paving Off-Gas	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	1.67	11.91	6.78	0.00	0.00	0.77	0.77	0.00	0.70	0.70	1,412.83
Paving On Road Diesel	0.03	0.31	0.13	0.00	0.00	0.01	0.01	0.00	0.01	0.01	76.07
Paving Worker Trips	0.02	0.03	0.57	0.00	0.00	0.00	0.01	0.00	0.00	0.00	93.19
Coating 11/30/2015-12/25/2015	34.13	0.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.48
Architectural Coating	34.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.01	0.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.48

Phase Assumptions

Phase: Fine Grading 1/26/2015 - 2/13/2015 - Default Fine Site Grading/Excavation Description

**3/4/2009 5:49:31 PM**

Total Acres Disturbed: 1.46

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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: Mass Grading 1/5/2015 - 1/23/2015 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 1.46

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Default

10 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

- 1 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day
- 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 Other Equipment (190 hp) operating at a 0.62 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 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day
- 1 Scrapers (313 hp) operating at a 0.72 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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**3/4/2009 5:49:31 PM**

Phase: Paving 11/30/2015 - 12/25/2015 - Default Paving Description

Acres to be Paved: 1

Off-Road Equipment:

- 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 Surfacing Eqipment (362 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Building Construction 2/16/2015 - 11/27/2015 - Default Building Construction Description

Off-Road Equipment:

- 1 Cranes (190 hp) operating at a 0.43 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
- 2 Off Highway Trucks (479 hp) operating at a 0.57 load factor for 8 hours per day

Phase: Architectural Coating 11/30/2015 - 12/25/2015 - 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