

Appendix D

Air Quality Worksheets

Page: 1

10/15/2007 8:22:39 AM

Urbemis 2007 Version 9.2.2

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Todd Small\Application Data\Urbemis\Version9a\Projects\New Leaf.urb9

Project Name: New Leaf

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)	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
2009 TOTALS (lbs/day mitigated)	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
2010 TOTALS (lbs/day unmitigated)	10.09	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
2010 TOTALS (lbs/day mitigated)	10.09	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	3.41	0.49	7.07	0.02	1.08	1.04	637.18
TOTALS (lbs/day, mitigated)	3.41	0.49	7.07	0.02	1.08	1.04	637.18
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	1.81	2.66	18.50	0.01	2.57	0.51	1,409.18

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	5.22	3.15	25.57	0.03	3.65	1.55	2,046.36

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

Construction Unmitigated Detail Report:

10/15/2007 8:22:39 AM

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 1/5/2009-1/23/2009 Active Days: 15	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Demolition 01/05/2009-01/23/2009	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Fugitive Dust	0.00	0.00	0.00	0.00	4.20	0.00	4.20	0.87	0.00	0.87	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	1.66	21.01	8.48	0.02	0.09	0.91	1.00	0.03	0.84	0.87	2,559.42
Demo Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 1/26/2009-8/24/2009 Active Days: 151	<u>5.60</u>	<u>53.04</u>	<u>25.76</u>	<u>0.03</u>	<u>27.79</u>	<u>2.57</u>	<u>30.36</u>	<u>5.82</u>	<u>2.36</u>	<u>8.18</u>	<u>5,429.07</u>
Mass Grading 01/26/2009-08/24/2009	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
Mass Grading Dust	0.00	0.00	0.00	0.00	27.70	0.00	27.70	5.78	0.00	5.78	0.00
Mass Grading Off Road Diesel	3.91	32.11	15.89	0.00	0.00	1.66	1.66	0.00	1.52	1.52	2,734.02
Mass Grading On Road Diesel	1.65	20.84	8.41	0.02	0.08	0.91	0.99	0.03	0.83	0.86	2,539.57
Mass Grading Worker Trips	0.05	0.09	1.45	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.48
Time Slice 8/25/2009-9/14/2009 Active Days: 15	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading 08/25/2009-09/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading Dust	0.00	0.00	0.00	0.00	20.00	0.00	20.00	4.18	0.00	4.18	0.00
Fine Grading Off Road Diesel	3.18	26.46	12.98	0.00	0.00	1.33	1.33	0.00	1.23	1.23	2,247.32
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	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

10/15/2007 8:22:39 AM

Time Slice 9/15/2009-9/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Active Days: 12											
Trenching 09/15/2009-09/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Trenching Off Road Diesel	2.18	18.90	8.32	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,714.64
Trenching Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/1/2009-10/30/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Active Days: 22											
Asphalt 10/01/2009-10/31/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.08	12.55	7.05	0.00	0.00	1.09	1.09	0.00	1.00	1.00	979.23
Paving On Road Diesel	0.04	0.57	0.23	0.00	0.00	0.02	0.03	0.00	0.02	0.02	69.16
Paving Worker Trips	0.07	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.67
Time Slice 11/2/2009-12/31/2009	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Active Days: 44											
Building 11/01/2009-11/01/2010	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building Off Road Diesel	1.30	9.79	4.94	0.00	0.00	0.63	0.63	0.00	0.58	0.58	893.39
Building Vendor Trips	0.04	0.45	0.35	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.09	0.16	2.68	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.58
Time Slice 1/1/2010-11/1/2010	1.32	<u>9.73</u>	<u>7.65</u>	<u>0.00</u>	<u>0.02</u>	<u>0.60</u>	<u>0.62</u>	<u>0.01</u>	<u>0.55</u>	<u>0.56</u>	<u>1,255.10</u>
Active Days: 217											
Building 11/01/2009-11/01/2010	1.32	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.04	0.42	0.33	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.08	0.15	2.51	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.49

10/15/2007 8:22:39 AM

Time Slice 11/2/2010-11/30/2010	<u>10.09</u>	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Active Days: 21											
Coating 11/02/2010-11/30/2010	10.09	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Architectural Coating	10.08	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	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55

Phase Assumptions

- Phase: Demolition 1/5/2009 - 1/23/2009 - Default Demolition Description
- Building Volume Total (cubic feet): 75000
- Building Volume Daily (cubic feet): 10000
- On Road Truck Travel (VMT): 603.86
- Off-Road Equipment:
 - 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
 - 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
 - 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day
- Phase: Fine Grading 8/25/2009 - 9/14/2009 - Default Fine Site Grading/Excavation Description
- Total Acres Disturbed: 4
- Maximum Daily Acreage Disturbed: 1
- 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 6 hours per day
 - 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
 - 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
 - 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day
- Phase: Mass Grading 1/26/2009 - 8/24/2009 - Default Mass Site Grading/Excavation Description

Page: 6

10/15/2007 8:22:39 AM

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 150 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 599.18

Off-Road Equipment:

2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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

Phase: Trenching 9/15/2009 - 9/30/2009 - Default Trenching Description

Off-Road Equipment:

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

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

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

Phase: Paving 10/1/2009 - 10/31/2009 - Default Paving Description

Acres to be Paved: 1

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

Phase: Building Construction 11/1/2009 - 11/1/2010 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

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

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

10/15/2007 8:22:39 AM

Phase: Architectural Coating 11/2/2010 - 11/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/5/2009-1/23/2009 Active Days: 15	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Demolition 01/05/2009-01/23/2009	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Fugitive Dust	0.00	0.00	0.00	0.00	4.20	0.00	4.20	0.87	0.00	0.87	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	1.66	21.01	8.48	0.02	0.09	0.91	1.00	0.03	0.84	0.87	2,559.42
Demo Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

10/15/2007 8:22:39 AM

Time Slice 1/26/2009-8/24/2009	<u>5.60</u>	<u>53.04</u>	<u>25.76</u>	<u>0.03</u>	<u>27.79</u>	<u>2.57</u>	<u>30.36</u>	<u>5.82</u>	<u>2.36</u>	<u>8.18</u>	<u>5,429.07</u>
Active Days: 151											
Mass Grading 01/26/2009-08/24/2009	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
Mass Grading Dust	0.00	0.00	0.00	0.00	27.70	0.00	27.70	5.78	0.00	5.78	0.00
Mass Grading Off Road Diesel	3.91	32.11	15.89	0.00	0.00	1.66	1.66	0.00	1.52	1.52	2,734.02
Mass Grading On Road Diesel	1.65	20.84	8.41	0.02	0.08	0.91	0.99	0.03	0.83	0.86	2,539.57
Mass Grading Worker Trips	0.05	0.09	1.45	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.48
Time Slice 8/25/2009-9/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Active Days: 15											
Fine Grading 08/25/2009-09/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading Dust	0.00	0.00	0.00	0.00	20.00	0.00	20.00	4.18	0.00	4.18	0.00
Fine Grading Off Road Diesel	3.18	26.46	12.98	0.00	0.00	1.33	1.33	0.00	1.23	1.23	2,247.32
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	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/15/2009-9/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Active Days: 12											
Trenching 09/15/2009-09/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Trenching Off Road Diesel	2.18	18.90	8.32	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,714.64
Trenching Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/1/2009-10/30/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Active Days: 22											
Asphalt 10/01/2009-10/31/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.08	12.55	7.05	0.00	0.00	1.09	1.09	0.00	1.00	1.00	979.23
Paving On Road Diesel	0.04	0.57	0.23	0.00	0.00	0.02	0.03	0.00	0.02	0.02	69.16
Paving Worker Trips	0.07	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.67

10/15/2007 8:22:39 AM

Time Slice 11/2/2009-12/31/2009 Active Days: 44	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building 11/01/2009-11/01/2010	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building Off Road Diesel	1.30	9.79	4.94	0.00	0.00	0.63	0.63	0.00	0.58	0.58	893.39
Building Vendor Trips	0.04	0.45	0.35	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.09	0.16	2.68	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.58
Time Slice 1/1/2010-11/1/2010 Active Days: 217	1.32	<u>9.73</u>	<u>7.65</u>	<u>0.00</u>	<u>0.02</u>	<u>0.60</u>	<u>0.62</u>	<u>0.01</u>	<u>0.55</u>	<u>0.56</u>	<u>1,255.10</u>
Building 11/01/2009-11/01/2010	1.32	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.04	0.42	0.33	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.08	0.15	2.51	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.49
Time Slice 11/2/2010-11/30/2010 Active Days: 21	<u>10.09</u>	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Coating 11/02/2010-11/30/2010	10.09	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Architectural Coating	10.08	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	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55

Construction Related Mitigation Measures

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.02	0.26	0.11	0.00	0.00	0.00	332.72
Hearth	2.51	0.23	6.96	0.02	1.08	1.04	304.46
Landscaping - No Winter Emissions							
Consumer Products	0.82						
Architectural Coatings	0.06						
TOTALS (lbs/day, unmitigated)	3.41	0.49	7.07	0.02	1.08	1.04	637.18

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.02	0.26	0.11	0.00	0.00	0.00	332.72
Hearth	2.51	0.23	6.96	0.02	1.08	1.04	304.46
Landscaping - No Winter Emissions							
Consumer Products	0.82						
Architectural Coatings	0.06						
TOTALS (lbs/day, mitigated)	3.41	0.49	7.07	0.02	1.08	1.04	637.18

Area Source Mitigation Measures Selected

Mitigation Description

Percent Reduction

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	1.81	2.66	18.50	0.01	2.57	0.51	1,409.18
TOTALS (lbs/day, unmitigated)	1.81	2.66	18.50	0.01	2.57	0.51	1,409.18

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	4.00	9.14	dwelling units	16.00	146.24	1,477.43
					146.24	1,477.43

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	49.0	2.0	97.6	0.4
Light Truck < 3750 lbs	10.9	3.7	90.8	5.5
Light Truck 3751-5750 lbs	21.7	0.9	98.6	0.5
Med Truck 5751-8500 lbs	9.5	1.1	98.9	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.5	77.1	22.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	10.0	80.0	10.0

Travel Conditions

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

% of Trips - Commercial (by land use)

Operational Changes to Defaults

Page: 1

10/15/2007 8:22:25 AM

Urbemis 2007 Version 9.2.2

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Todd Small\Application Data\Urbemis\Version9a\Projects\New Leaf.urb9

Project Name: New Leaf

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)	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
2009 TOTALS (lbs/day mitigated)	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
2010 TOTALS (lbs/day unmitigated)	10.09	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
2010 TOTALS (lbs/day mitigated)	10.09	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	1.03	0.27	0.85	0.00	0.00	0.00	333.86
TOTALS (lbs/day, mitigated)	1.03	0.27	0.85	0.00	0.00	0.00	333.86
Percent Reduction	0.00	0.00	0.00	NaN	NaN	NaN	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	1.66	2.22	18.95	0.02	2.57	0.51	1,547.91

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	2.69	2.49	19.80	0.02	2.57	0.51	1,881.77

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

Construction Unmitigated Detail Report:

10/15/2007 8:22:25 AM

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	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Demolition 01/05/2009-01/23/2009	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Fugitive Dust	0.00	0.00	0.00	0.00	4.20	0.00	4.20	0.87	0.00	0.87	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	1.66	21.01	8.48	0.02	0.09	0.91	1.00	0.03	0.84	0.87	2,559.42
Demo Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 1/26/2009-8/24/2009 Active Days: 151	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
Mass Grading 01/26/2009-08/24/2009	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
Mass Grading Dust	0.00	0.00	0.00	0.00	27.70	0.00	27.70	5.78	0.00	5.78	0.00
Mass Grading Off Road Diesel	3.91	32.11	15.89	0.00	0.00	1.66	1.66	0.00	1.52	1.52	2,734.02
Mass Grading On Road Diesel	1.65	20.84	8.41	0.02	0.08	0.91	0.99	0.03	0.83	0.86	2,539.57
Mass Grading Worker Trips	0.05	0.09	1.45	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.48
Time Slice 8/25/2009-9/14/2009 Active Days: 15	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading 08/25/2009-09/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading Dust	0.00	0.00	0.00	0.00	20.00	0.00	20.00	4.18	0.00	4.18	0.00
Fine Grading Off Road Diesel	3.18	26.46	12.98	0.00	0.00	1.33	1.33	0.00	1.23	1.23	2,247.32
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	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

10/15/2007 8:22:25 AM

Time Slice 9/15/2009-9/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Active Days: 12											
Trenching 09/15/2009-09/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Trenching Off Road Diesel	2.18	18.90	8.32	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,714.64
Trenching Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/1/2009-10/30/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Active Days: 22											
Asphalt 10/01/2009-10/31/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.08	12.55	7.05	0.00	0.00	1.09	1.09	0.00	1.00	1.00	979.23
Paving On Road Diesel	0.04	0.57	0.23	0.00	0.00	0.02	0.03	0.00	0.02	0.02	69.16
Paving Worker Trips	0.07	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.67
Time Slice 11/2/2009-12/31/2009	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Active Days: 44											
Building 11/01/2009-11/01/2010	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building Off Road Diesel	1.30	9.79	4.94	0.00	0.00	0.63	0.63	0.00	0.58	0.58	893.39
Building Vendor Trips	0.04	0.45	0.35	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.09	0.16	2.68	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.58
Time Slice 1/1/2010-11/1/2010	1.32	<u>9.73</u>	<u>7.65</u>	<u>0.00</u>	<u>0.02</u>	<u>0.60</u>	<u>0.62</u>	<u>0.01</u>	<u>0.55</u>	<u>0.56</u>	<u>1,255.10</u>
Active Days: 217											
Building 11/01/2009-11/01/2010	1.32	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.04	0.42	0.33	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.08	0.15	2.51	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.49

10/15/2007 8:22:25 AM

Time Slice 11/2/2010-11/30/2010	<u>10.09</u>	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Active Days: 21											
Coating 11/02/2010-11/30/2010	10.09	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Architectural Coating	10.08	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	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55

Phase Assumptions

- Phase: Demolition 1/5/2009 - 1/23/2009 - Default Demolition Description
- Building Volume Total (cubic feet): 75000
- Building Volume Daily (cubic feet): 10000
- On Road Truck Travel (VMT): 603.86
- Off-Road Equipment:
 - 1 Concrete/Industrial Saws (10 hp) operating at a 0.73 load factor for 8 hours per day
 - 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 1 hours per day
 - 2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day
- Phase: Fine Grading 8/25/2009 - 9/14/2009 - Default Fine Site Grading/Excavation Description
- Total Acres Disturbed: 4
- Maximum Daily Acreage Disturbed: 1
- 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 6 hours per day
 - 1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
 - 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
 - 1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day
- Phase: Mass Grading 1/26/2009 - 8/24/2009 - Default Mass Site Grading/Excavation Description

Page: 6

10/15/2007 8:22:25 AM

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 150 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 599.18

Off-Road Equipment:

2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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

Phase: Trenching 9/15/2009 - 9/30/2009 - Default Trenching Description

Off-Road Equipment:

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

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

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

Phase: Paving 10/1/2009 - 10/31/2009 - Default Paving Description

Acres to be Paved: 1

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

Phase: Building Construction 11/1/2009 - 11/1/2010 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

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

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

10/15/2007 8:22:25 AM

- Phase: Architectural Coating 11/2/2010 - 11/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
Time Slice 1/5/2009-1/23/2009 Active Days: 15	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Demolition 01/05/2009-01/23/2009	2.93	29.23	14.43	0.03	4.29	1.56	5.85	0.90	1.43	2.34	3,384.11
Fugitive Dust	0.00	0.00	0.00	0.00	4.20	0.00	4.20	0.87	0.00	0.87	0.00
Demo Off Road Diesel	1.23	8.15	4.78	0.00	0.00	0.64	0.64	0.00	0.59	0.59	700.30
Demo On Road Diesel	1.66	21.01	8.48	0.02	0.09	0.91	1.00	0.03	0.84	0.87	2,559.42
Demo Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39

10/15/2007 8:22:25 AM

Time Slice 1/26/2009-8/24/2009	<u>5.60</u>	<u>53.04</u>	<u>25.76</u>	<u>0.03</u>	<u>27.79</u>	<u>2.57</u>	<u>30.36</u>	<u>5.82</u>	<u>2.36</u>	<u>8.18</u>	<u>5,429.07</u>
Active Days: 151											
Mass Grading 01/26/2009-08/24/2009	5.60	53.04	25.76	0.03	27.79	2.57	30.36	5.82	2.36	8.18	5,429.07
Mass Grading Dust	0.00	0.00	0.00	0.00	27.70	0.00	27.70	5.78	0.00	5.78	0.00
Mass Grading Off Road Diesel	3.91	32.11	15.89	0.00	0.00	1.66	1.66	0.00	1.52	1.52	2,734.02
Mass Grading On Road Diesel	1.65	20.84	8.41	0.02	0.08	0.91	0.99	0.03	0.83	0.86	2,539.57
Mass Grading Worker Trips	0.05	0.09	1.45	0.00	0.01	0.00	0.01	0.00	0.00	0.01	155.48
Time Slice 8/25/2009-9/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Active Days: 15											
Fine Grading 08/25/2009-09/14/2009	3.22	26.53	14.14	0.00	20.01	1.34	21.34	4.18	1.23	5.41	2,371.70
Fine Grading Dust	0.00	0.00	0.00	0.00	20.00	0.00	20.00	4.18	0.00	4.18	0.00
Fine Grading Off Road Diesel	3.18	26.46	12.98	0.00	0.00	1.33	1.33	0.00	1.23	1.23	2,247.32
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	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 9/15/2009-9/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Active Days: 12											
Trenching 09/15/2009-09/30/2009	2.22	18.97	9.48	0.00	0.01	0.93	0.94	0.00	0.86	0.86	1,839.02
Trenching Off Road Diesel	2.18	18.90	8.32	0.00	0.00	0.93	0.93	0.00	0.86	0.86	1,714.64
Trenching Worker Trips	0.04	0.07	1.16	0.00	0.01	0.00	0.01	0.00	0.00	0.00	124.39
Time Slice 10/1/2009-10/30/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Active Days: 22											
Asphalt 10/01/2009-10/31/2009	2.31	13.24	9.31	0.00	0.01	1.12	1.13	0.00	1.03	1.03	1,266.06
Paving Off-Gas	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	2.08	12.55	7.05	0.00	0.00	1.09	1.09	0.00	1.00	1.00	979.23
Paving On Road Diesel	0.04	0.57	0.23	0.00	0.00	0.02	0.03	0.00	0.02	0.02	69.16
Paving Worker Trips	0.07	0.12	2.03	0.00	0.01	0.01	0.02	0.00	0.00	0.01	217.67

10/15/2007 8:22:25 AM

Time Slice 11/2/2009-12/31/2009 Active Days: 44	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building 11/01/2009-11/01/2010	1.42	10.41	7.97	0.00	0.02	0.66	0.68	0.01	0.61	0.61	1,255.19
Building Off Road Diesel	1.30	9.79	4.94	0.00	0.00	0.63	0.63	0.00	0.58	0.58	893.39
Building Vendor Trips	0.04	0.45	0.35	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.09	0.16	2.68	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.58
Time Slice 1/1/2010-11/1/2010 Active Days: 217	1.32	<u>9.73</u>	<u>7.65</u>	<u>0.00</u>	<u>0.02</u>	<u>0.60</u>	<u>0.62</u>	<u>0.01</u>	<u>0.55</u>	<u>0.56</u>	<u>1,255.10</u>
Building 11/01/2009-11/01/2010	1.32	9.73	7.65	0.00	0.02	0.60	0.62	0.01	0.55	0.56	1,255.10
Building Off Road Diesel	1.21	9.16	4.81	0.00	0.00	0.58	0.58	0.00	0.53	0.53	893.39
Building Vendor Trips	0.04	0.42	0.33	0.00	0.00	0.02	0.02	0.00	0.02	0.02	75.22
Building Worker Trips	0.08	0.15	2.51	0.00	0.01	0.01	0.02	0.00	0.01	0.01	286.49
Time Slice 11/2/2010-11/30/2010 Active Days: 21	<u>10.09</u>	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Coating 11/02/2010-11/30/2010	10.09	0.03	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55
Architectural Coating	10.08	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	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.55

Construction Related Mitigation Measures

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.02	0.26	0.11	0.00	0.00	0.00	332.72
Hearth - No Summer Emissions							
Landscape	0.13	0.01	0.74	0.00	0.00	0.00	1.14
Consumer Products	0.82						
Architectural Coatings	0.06						
TOTALS (lbs/day, unmitigated)	1.03	0.27	0.85	0.00	0.00	0.00	333.86

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.02	0.26	0.11	0.00	0.00	0.00	332.72
Hearth - No Summer Emissions							
Landscape	0.13	0.01	0.74	0.00	0.00	0.00	1.14
Consumer Products	0.82						
Architectural Coatings	0.06						
TOTALS (lbs/day, mitigated)	1.03	0.27	0.85	0.00	0.00	0.00	333.86

Area Source Mitigation Measures Selected

Mitigation Description

Percent Reduction

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	1.66	2.22	18.95	0.02	2.57	0.51	1,547.91
TOTALS (lbs/day, unmitigated)	1.66	2.22	18.95	0.02	2.57	0.51	1,547.91

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	4.00	9.14	dwelling units	16.00	146.24	1,477.43
					146.24	1,477.43

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	49.0	2.0	97.6	0.4
Light Truck < 3750 lbs	10.9	3.7	90.8	5.5
Light Truck 3751-5750 lbs	21.7	0.9	98.6	0.5
Med Truck 5751-8500 lbs	9.5	1.1	98.9	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.5	77.1	22.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	10.0	80.0	10.0

Travel Conditions

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

% of Trips - Commercial (by land use)

Operational Changes to Defaults

Page: 1

10/15/2007 8:22:52 AM

Urbemis 2007 Version 9.2.2

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Todd Small\Application Data\Urbemis\Version9a\Projects\New Leaf.urb9

Project Name: New Leaf

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 (tons/year unmitigated)	0.54	4.91	2.49	0.00	2.28	0.25	2.53	0.48	0.23	0.71	505.64
2009 TOTALS (tons/year mitigated)	0.54	4.91	2.49	0.00	2.28	0.25	2.53	0.48	0.23	0.71	505.64
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010 TOTALS (tons/year unmitigated)	0.25	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.78
2010 TOTALS (tons/year mitigated)	0.25	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.78
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.21	0.05	0.25	0.00	0.01	0.01	63.01
TOTALS (tons/year, mitigated)	0.21	0.05	0.25	0.00	0.01	0.01	63.01
Percent Reduction	0.00	0.00	0.00	NaN	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.31	0.43	3.43	0.00	0.47	0.09	274.05

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	0.52	0.48	3.68	0.00	0.48	0.10	337.06

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

10/15/2007 8:22:52 AM

Asphalt 10/01/2009-10/31/2009	0.03	0.15	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	13.93
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.02	0.14	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	10.77
Paving On Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
Paving Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Building 11/01/2009-11/01/2010	0.03	0.23	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	27.61
Building Off Road Diesel	0.03	0.22	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	19.65
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65
Building Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30
2010	0.25	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.78
Building 11/01/2009-11/01/2010	0.14	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.18
Building Off Road Diesel	0.13	0.99	0.52	0.00	0.00	0.06	0.06	0.00	0.06	0.06	96.93
Building Vendor Trips	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.16
Building Worker Trips	0.01	0.02	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.08
Coating 11/02/2010-11/30/2010	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Architectural Coating	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60

Phase Assumptions

Phase: Demolition 1/5/2009 - 1/23/2009 - Default Demolition Description

Building Volume Total (cubic feet): 75000

Building Volume Daily (cubic feet): 10000

On Road Truck Travel (VMT): 603.86

Off-Road Equipment:

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

Page: 5

10/15/2007 8:22:52 AM

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

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 6 hours per day

Phase: Fine Grading 8/25/2009 - 9/14/2009 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1

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 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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

Phase: Mass Grading 1/26/2009 - 8/24/2009 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 1

Fugitive Dust Level of Detail: Low

Onsite Cut/Fill: 150 cubic yards/day; Offsite Cut/Fill: 0 cubic yards/day

On Road Truck Travel (VMT): 599.18

Off-Road Equipment:

2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

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

Phase: Trenching 9/15/2009 - 9/30/2009 - Default Trenching Description

Off-Road Equipment:

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

Page: 6

10/15/2007 8:22:52 AM

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

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

Phase: Paving 10/1/2009 - 10/31/2009 - Default Paving Description

Acres to be Paved: 1

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

Phase: Building Construction 11/1/2009 - 11/1/2010 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 4 hours per day

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

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

Phase: Architectural Coating 11/2/2010 - 11/30/2010 - 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

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

10/15/2007 8:22:52 AM

Asphalt 10/01/2009-10/31/2009	0.03	0.15	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	13.93
Paving Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.02	0.14	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	10.77
Paving On Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
Paving Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Building 11/01/2009-11/01/2010	0.03	0.23	0.18	0.00	0.00	0.01	0.01	0.00	0.01	0.01	27.61
Building Off Road Diesel	0.03	0.22	0.11	0.00	0.00	0.01	0.01	0.00	0.01	0.01	19.65
Building Vendor Trips	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65
Building Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30
2010	0.25	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.78
Building 11/01/2009-11/01/2010	0.14	1.06	0.83	0.00	0.00	0.07	0.07	0.00	0.06	0.06	136.18
Building Off Road Diesel	0.13	0.99	0.52	0.00	0.00	0.06	0.06	0.00	0.06	0.06	96.93
Building Vendor Trips	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.16
Building Worker Trips	0.01	0.02	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.08
Coating 11/02/2010-11/30/2010	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Architectural Coating	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60

Construction Related Mitigation Measures

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.00	0.05	0.02	0.00	0.00	0.00	60.72
Hearth	0.03	0.00	0.09	0.00	0.01	0.01	2.08
Landscape	0.02	0.00	0.14	0.00	0.00	0.00	0.21
Consumer Products	0.15						
Architectural Coatings	0.01						
TOTALS (tons/year, unmitigated)	0.21	0.05	0.25	0.00	0.01	0.01	63.01

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.00	0.05	0.02	0.00	0.00	0.00	60.72
Hearth	0.03	0.00	0.09	0.00	0.01	0.01	2.08
Landscape	0.02	0.00	0.14	0.00	0.00	0.00	0.21
Consumer Products	0.15						
Architectural Coatings	0.01						
TOTALS (tons/year, mitigated)	0.21	0.05	0.25	0.00	0.01	0.01	63.01

Area Source Mitigation Measures Selected

Mitigation Description

Percent Reduction

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	0.31	0.43	3.43	0.00	0.47	0.09	274.05
TOTALS (tons/year, unmitigated)	0.31	0.43	3.43	0.00	0.47	0.09	274.05

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2009 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	4.00	9.14	dwelling units	16.00	146.24	1,477.43
					146.24	1,477.43

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	49.0	2.0	97.6	0.4
Light Truck < 3750 lbs	10.9	3.7	90.8	5.5
Light Truck 3751-5750 lbs	21.7	0.9	98.6	0.5
Med Truck 5751-8500 lbs	9.5	1.1	98.9	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.6	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.5	77.1	22.9	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	10.0	80.0	10.0

Travel Conditions

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

% of Trips - Commercial (by land use)

Operational Changes to Defaults