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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: Z:\Glu\aqNewhall\August 2007 Revision to Newhall\Operational Emissions\URBEMIS2007 Files and Printouts\Entrada and

VCC\Entrada\Entrada Alt 2\Entrada Alt 2.urb924
Project Name: Entrada Operational Emissions Alt 2

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:

AREA SOURCE EMISSION ESTIMATES

	ROG	<u>NOx</u>	CO	<u>SO2</u>	PM10	PM2.5				
TOTALS (lbs/day, unmitigated)	100.95	24.60	39.06	0.00	0.13	0.13				
TOTALS (lbs/day, mitigated)	100.68	20.96	37.23	0.00	0.12	0.12				
Percent Reduction	0.27	14.80	4.69	0.00	7.69	7.69				
OPERATIONAL (VEHICLE) EMISSION ESTIMATES										
	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5				
TOTALS (lbs/day, unmitigated)	69.73	59.24	664.28	1.98	323.54	62.73				
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES										
	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5				
TOTALS (lbs/day, unmitigated)	170.68	83.84	703.34	1.98	323.67	62.86				

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

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
Natural Gas	1.85	24.28	12.23	0.00	0.05	0.05
Hearth - No Summer Emissions						
Landscape	4.07	0.32	26.83	0.00	0.08	0.08
Consumer Products	88.49					
Architectural Coatings	6.54					
TOTALS (lbs/day, unmitigated)	100.95	24.60	39.06	0.00	0.13	0.13
Area Source Mitigated Detail Report: AREA SOURCE EMISSION ESTIMAT	ES Summer Pounds	Per Day, Mitigated				
<u>Source</u>	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5
Natural Gas	1.58	20.64	10.40	0.00	0.04	0.04
Hearth - No Summer Emissions						
Landscape	4.07	0.32	26.83	0.00	0.08	0.08
Consumer Products	88.49					
Architectural Coatings	6.54					
TOTALS (lbs/day, mitigated)	100.68	20.96	37.23	0.00	0.12	0.12

Area Source Changes to Defaults

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

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	9.55	8.36	96.25	0.29	46.84	9.08
Condo/townhouse general	24.29	20.46	235.70	0.70	114.70	22.24
Elementary school	2.14	0.83	9.32	0.03	4.52	0.88
City park	0.04	0.02	0.25	0.00	0.13	0.02
Regnl shop. center	26.98	23.85	260.35	0.78	127.46	24.71
Supermarket	6.73	5.72	62.41	0.18	29.89	5.80
TOTALS (lbs/day, unmitigated)	69.73	59.24	664.28	1.98	323.54	62.73

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 27.57 Nonresidential Trip % Reduction: 19.33

Analysis Year: 2030 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	142.67	7.17	dwelling units	428.00	3,068.80	27,143.51
Condo/townhouse general	81.06	5.79	dwelling units	1,297.00	7,514.83	66,468.67
Elementary school		1.17	students	350.00	409.38	2,617.72
City park		2.10	acres	5.00	10.49	72.67
Regnl shop. center		32.32	1000 sq ft	399.00	12,893.69	73,871.32
Supermarket		68.61	1000 sq ft	51.00	3,499.36	17,316.98
					27,396.55	187,490.87

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Vehicle Fleet Mix										
Vehicle Type		Percent Type	Non-Catalyst		Catalyst					
Light Auto		51.7	0.0		100.0	0.0				
Light Truck < 3750 lbs		6.7	0.0		100.0	0.0				
Light Truck 3751-5750 lbs		23.5	0.0		100.0	0.0				
Med Truck 5751-8500 lbs		10.6	0.0		100.0	0.0				
Lite-Heavy Truck 8501-10,000 I	lbs	1.7	0.0		82.4	17.6				
Lite-Heavy Truck 10,001-14,000	0 lbs	0.5	0.0		60.0	40.0				
Med-Heavy Truck 14,001-33,00	00 lbs	1.0	0.0		20.0	80.0				
Heavy-Heavy Truck 33,001-60,	000 lbs	0.5	0.0		0.0	100.0				
Other Bus		0.1		0.0		100.0				
Urban Bus		0.1			0.0	100.0				
Motorcycle		2.5		32.0 68.0		0.0				
School Bus		0.1			0.0	100.0				
Motor Home		1.0	0.0		90.0	10.0				
		Travel (<u>Conditions</u>							
		Residential			Commercial					
	Home-Work	Home-Shop	Home-Other	Commute	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 lan	nd									
use) Elementary school				20.0	10.0	70.0				
City park				5.0	2.5	92.5				
Regnl shop. center				2.0	1.0	97.0				
Supermarket				2.0	1.0	97.0				

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Combined Winter Emissions Reports (Pounds/Day)

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Alt 2\Entrada Alt 2.urb924

Project Name: Entrada Operational Emissions Alt 2

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:

AREA SOURCE EMISSION ESTIMATES

	ROG	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	PM2.5				
TOTALS (lbs/day, unmitigated)	97.51	35.00	16.79	0.07	0.92	0.91				
TOTALS (lbs/day, mitigated)	97.24	31.36	14.96	0.07	0.91	0.90				
Percent Reduction	0.28	10.40	10.90	0.00	1.09	1.10				
OPERATIONAL (VEHICLE) EMISSION ESTIMATES ROG NOx CO SO2 PM10										
TOTALS (lbs/day, unmitigated)	75.64	71.10	629.56	1.63	323.54	<u>PM2.5</u> 62.73				
SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES										
	ROG	<u>NOx</u>	CO	<u>SO2</u>	<u>PM10</u>	PM2.5				
TOTALS (lbs/day, unmitigated)	173.15	106.10	646.35	1.70	324.46	63.64				

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	<u>NOx</u>	<u>co</u>	<u>SO2</u>	<u>PM10</u>	PM2.5				
Natural Gas	1.85	24.28	12.23	0.00	0.05	0.05				
Hearth	0.63	10.72	4.56	0.07	0.87	0.86				
Landscaping - No Winter Emissions										
Consumer Products	88.49									
Architectural Coatings	6.54									
TOTALS (lbs/day, unmitigated)	97.51	35.00	16.79	0.07	0.92	0.91				
Area Source Mitigated Detail Report: AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Mitigated										
Source	ROG	NOx	CO	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>				
Natural Gas	1.58	20.64	10.40	0.00	0.04	0.04				
Hearth	0.63	10.72	4.56	0.00	0.04	0.86				
	0.63	10.72	4.56	0.07	0.67	0.00				
Landscaping - No Winter Emissions										
Consumer Products	88.49									
Architectural Coatings	6.54									
TOTALS (lbs/day, mitigated)	97.24	31.36	14.96	0.07	0.91	0.90				

Area Source Changes to Defaults

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

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

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

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	10.04	10.05	90.12	0.24	46.84	9.08
Condo/townhouse general	25.04	24.60	220.68	0.58	114.70	22.24
Elementary school	1.69	1.00	8.85	0.02	4.52	0.88
City park	0.04	0.03	0.24	0.00	0.13	0.02
Regnl shop. center	30.93	28.57	249.35	0.64	127.46	24.71
Supermarket	7.90	6.85	60.32	0.15	29.89	5.80
TOTALS (lbs/day, unmitigated)	75.64	71.10	629.56	1.63	323.54	62.73

Operational Settings:

Includes correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 27.57 Nonresidential Trip % Reduction: 19.33

Analysis Year: 2030 Temperature (F): 60 Season: Winter

Emfac: Version: Emfac2007 V2.3 Nov 1 2006

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City park		2.10	acres	5.00	10.49	72.67
Regnl shop. center		32.32	1000 sq ft	399.00	12,893.69	73,871.32
Supermarket		68.61	1000 sq ft	51.00	3,499.36	17,316.98
					27,396.55	187,490.87

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Vehicle Fleet Mix											
Vehicle Type	1	Percent Type	Non-Catalyst	C	Catalyst	Diesel					
Light Auto	51.7		0.0		100.0	0.0					
Light Truck < 3750 lbs		6.7	0.0		100.0	0.0					
Light Truck 3751-5750 lbs		23.5	0.0		100.0	0.0					
Med Truck 5751-8500 lbs		10.6	0.0		100.0	0.0					
Lite-Heavy Truck 8501-10,000 lbs		1.7	0.0		82.4	17.6					
Lite-Heavy Truck 10,001-14,000 lbs		0.5	0.0		60.0	40.0					
Med-Heavy Truck 14,001-33,000 lbs		1.0	0.0		20.0	80.0					
Heavy-Heavy Truck 33,001-60,000 lbs		0.5	0.0		0.0	100.0					
Other Bus		0.1	0.0	0.0		100.0					
Urban Bus		0.1	0.0		100.0						
Motorcycle	2.5		32.0	68.0		0.0					
School Bus		0.1	0.0		0.0	100.0					
Motor Home		1.0	0.0		90.0	10.0					
		Travel Condi	tions								
		Residential		(Commercial						
	Home-Work	Home-Shop	Home-Other	Commute	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)											
Elementary school				20.0	10.0	70.0					
City park				5.0	2.5	92.5					
Regnl shop. center				2.0	1.0	97.0					
Supermarket				2.0	1.0	97.0					