
APPENDIX B

Page: 1

1/7/2008 7:06:03 PM

Urbemis 2007 Version 9.2.2

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt1.urb9

Project Name: Elk Grove Plaza III Alt 1

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (tons/year unmitigated)	0.08	0.44	0.45	0.00	1.28	0.03	1.31	0.27	0.03	0.29	57.51
2009 TOTALS (tons/year unmitigated)	0.04	0.18	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	36.25

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)	0.11	0.20	0.58	0.00	0.00	0.00	223.51

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	3.92	3.49	33.99	0.02	3.77	0.74	2,256.04

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)	4.03	3.69	34.57	0.02	3.77	0.74	2,479.55

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2009	0.04	0.18	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	36.25
Building 09/12/2008-04/23/2009	0.04	0.18	0.33	0.00	0.00	0.01	0.02	0.00	0.01	0.01	36.25
Building Off Road Diesel	0.03	0.15	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	12.29
Building Vendor Trips	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
Building Worker Trips	0.01	0.01	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.46

Phase Assumptions

Phase: Demolition 6/9/2008 - 7/30/2008 - Type Your Description Here

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Fine Grading 7/31/2008 - 9/12/2008 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

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

Phase: Paving 8/29/2008 - 9/12/2008 - Default Paving Description

Acres to be Paved: 0.77

Off-Road Equipment:

1/7/2008 7:06:03 PM

0.4 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

0.4 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 9/12/2008 - 4/23/2009 - Default Building Construction Description

Off-Road Equipment:

0.8 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

0.4 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

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	0.01	0.19	0.16	0.00	0.00	0.00	222.75
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.03	0.01	0.42	0.00	0.00	0.00	0.76
Consumer Products	0.00						
Architectural Coatings	0.07						
TOTALS (tons/year, unmitigated)	0.11	0.20	0.58	0.00	0.00	0.00	223.51

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
High turnover (sit-down) rest.	0.83	0.77	7.52	0.00	0.82	0.16	491.97
Hotel	1.36	1.31	12.64	0.01	1.57	0.31	926.07
Gasoline/service station	1.73	1.41	13.83	0.01	1.38	0.27	838.00
TOTALS (tons/year, unmitigated)	3.92	3.49	33.99	0.02	3.77	0.74	2,256.04

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
High turnover (sit-down) rest.		127.15	1000 sq ft	6.80	864.62	2,604.60
Hotel		8.17	rooms	119.00	972.23	4,999.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					3,790.21	11,981.04

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Hotel				5.0	2.5	92.5
Gasoline/service station				2.0	1.0	97.0

Page: 1

1/7/2008 7:01:28 PM

Urbemis 2007 Version 9.2.2

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt2.urb9

Project Name: Elk Grove Plaza III Alt 2

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (tons/year unmitigated)	0.07	0.41	0.26	0.00	1.28	0.03	1.31	0.27	0.02	0.29	38.30
2009 TOTALS (tons/year unmitigated)	0.04	0.16	0.14	0.00	0.00	0.01	0.01	0.00	0.01	0.01	16.92

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)	0.04	0.03	0.44	0.00	0.00	0.00	28.01

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)	3.96	3.86	37.53	0.02	4.24	0.82	2,526.92

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)	4.00	3.89	37.97	0.02	4.24	0.82	2,554.93

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2009	0.04	0.16	0.14	0.00	0.00	0.01	0.01	0.00	0.01	0.01	16.92
Building 09/12/2008-04/23/2009	0.04	0.16	0.14	0.00	0.00	0.01	0.01	0.00	0.01	0.01	16.92
Building Off Road Diesel	0.03	0.15	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	12.29
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
Building Worker Trips	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.76

Phase Assumptions

Phase: Demolition 6/9/2008 - 7/30/2008 - Type Your Description Here

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Fine Grading 7/31/2008 - 9/12/2008 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

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

Phase: Paving 8/29/2008 - 9/12/2008 - Default Paving Description

Acres to be Paved: 0.15

Off-Road Equipment:

1/7/2008 7:01:28 PM

0.4 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

0.4 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 9/12/2008 - 4/23/2009 - Default Building Construction Description

Off-Road Equipment:

0.8 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

0.4 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

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	0.02	0.02	0.00	0.00	0.00	27.25
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.03	0.01	0.42	0.00	0.00	0.00	0.76
Consumer Products	0.00						
Architectural Coatings	0.01						
TOTALS (tons/year, unmitigated)	0.04	0.03	0.44	0.00	0.00	0.00	28.01

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
Fast food rest. w/ drive thru	1.83	2.04	19.72	0.01	2.39	0.46	1,409.23
Strip mall	0.40	0.41	3.98	0.00	0.47	0.09	279.69
Gasoline/service station	1.73	1.41	13.83	0.01	1.38	0.27	838.00
TOTALS (tons/year, unmitigated)	3.96	3.86	37.53	0.02	4.24	0.82	2,526.92

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 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
Fast food rest. w/ drive thru		496.12	1000 sq ft	3.40	1,686.81	7,577.94
Strip mall		42.94	1000 sq ft	8.60	369.28	1,500.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					4,009.45	13,455.38

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Fast food rest. w/ drive thru				5.0	2.5	92.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Strip mall				2.0	1.0	97.0
Gasoline/service station				2.0	1.0	97.0

Page: 1

1/7/2008 6:57:25 PM

Urbemis 2007 Version 9.2.2

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt1.urb9

Project Name: Elk Grove Plaza III Alt 1

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (lbs/day unmitigated)	3.26	20.54	15.64	0.01	80.03	1.25	81.28	16.72	1.15	17.87	2,265.41
2009 TOTALS (lbs/day unmitigated)	1.04	4.45	8.04	0.01	0.03	0.36	0.39	0.01	0.33	0.34	894.95

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)	0.83	1.08	5.49	0.00	0.02	0.02	1,228.98

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)	21.39	16.64	188.91	0.13	20.70	4.03	13,191.48

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)	22.22	17.72	194.40	0.13	20.72	4.05	14,420.46

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>
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Time Slice 9/12/2008-9/12/2008	<u>3.26</u>	<u>20.54</u>	<u>15.64</u>	<u>0.01</u>	<u>80.03</u>	<u>1.25</u>	<u>81.28</u>	<u>16.72</u>	<u>1.15</u>	<u>17.87</u>	<u>2,265.41</u>
Active Days: 1											
Asphalt 08/29/2008-09/12/2008	0.83	4.17	2.27	0.00	0.00	0.33	0.33	0.00	0.30	0.31	344.64
Paving Off-Gas	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.60	3.53	1.80	0.00	0.00	0.30	0.30	0.00	0.28	0.28	239.36
Paving On Road Diesel	0.04	0.63	0.22	0.00	0.00	0.03	0.03	0.00	0.02	0.03	82.98
Paving Worker Trips	0.01	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.30
Building 09/12/2008-04/23/2009	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.05	0.58	0.57	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.02
Building Worker Trips	0.16	0.25	5.49	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.21
Fine Grading 07/31/2008-09/12/2008	1.33	11.74	4.84	0.00	80.00	0.54	80.54	16.71	0.49	17.20	1,026.15
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	1.32	11.71	4.27	0.00	0.00	0.54	0.54	0.00	0.49	0.49	975.97
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.02	0.03	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.17
Time Slice 9/15/2008-12/31/2008	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Active Days: 78											
Building 09/12/2008-04/23/2009	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.05	0.58	0.57	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.02
Building Worker Trips	0.16	0.25	5.49	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.21

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Time Slice 1/1/2009-4/23/2009	<u>1.04</u>	<u>4.45</u>	<u>8.04</u>	<u>0.01</u>	<u>0.03</u>	<u>0.36</u>	<u>0.39</u>	<u>0.01</u>	<u>0.33</u>	<u>0.34</u>	<u>894.95</u>
Active Days: 81											
Building 09/12/2008-04/23/2009	1.04	4.45	8.04	0.01	0.03	0.36	0.39	0.01	0.33	0.34	894.95
Building Off Road Diesel	0.85	3.68	2.44	0.00	0.00	0.33	0.33	0.00	0.31	0.31	303.41
Building Vendor Trips	0.05	0.55	0.54	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.03
Building Worker Trips	0.15	0.23	5.06	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.50

Phase Assumptions

Phase: Demolition 6/9/2008 - 7/30/2008 - Type Your Description Here

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Fine Grading 7/31/2008 - 9/12/2008 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

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

Phase: Paving 8/29/2008 - 9/12/2008 - Default Paving Description

Acres to be Paved: 0.77

Off-Road Equipment:

1/7/2008 6:57:25 PM

0.4 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

0.4 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 9/12/2008 - 4/23/2009 - Default Building Construction Description

Off-Road Equipment:

0.8 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

0.4 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

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	0.07	1.02	0.85	0.00	0.00	0.00	1,220.55
Hearth - No Summer Emissions							
Landscape	0.37	0.06	4.64	0.00	0.02	0.02	8.43
Consumer Products	0.00						
Architectural Coatings	0.39						
TOTALS (lbs/day, unmitigated)	0.83	1.08	5.49	0.00	0.02	0.02	1,228.98

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
High turnover (sit-down) rest.	4.41	3.67	41.72	0.03	4.50	0.88	2,876.08
Hotel	7.90	6.21	71.66	0.05	8.63	1.67	5,420.56
Gasoline/service station	9.08	6.76	75.53	0.05	7.57	1.48	4,894.84
TOTALS (lbs/day, unmitigated)	21.39	16.64	188.91	0.13	20.70	4.03	13,191.48

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 Temperature (F): 95 Season: Summer

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
High turnover (sit-down) rest.		127.15	1000 sq ft	6.80	864.62	2,604.60
Hotel		8.17	rooms	119.00	972.23	4,999.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					3,790.21	11,981.04

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Hotel				5.0	2.5	92.5
Gasoline/service station				2.0	1.0	97.0

Page: 1

1/7/2008 7:00:09 PM

Urbemis 2007 Version 9.2.2

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt2.urb9

Project Name: Elk Grove Plaza III Alt 2

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

1/7/2008 7:00:09 PM

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (lbs/day unmitigated)	2.91	19.37	10.58	0.00	80.01	1.20	81.21	16.71	1.10	17.81	1,721.58
2009 TOTALS (lbs/day unmitigated)	0.89	3.83	3.52	0.00	0.00	0.34	0.34	0.00	0.31	0.31	417.67

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)	0.46	0.18	4.74	0.00	0.02	0.02	157.72

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)	20.86	18.39	209.07	0.15	23.24	4.52	14,777.87

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)	21.32	18.57	213.81	0.15	23.26	4.54	14,935.59

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>
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1/7/2008 7:00:10 PM

Time Slice 9/12/2008-9/12/2008	<u>2.91</u>	<u>19.37</u>	<u>10.58</u>	<u>0.00</u>	<u>80.01</u>	<u>1.20</u>	<u>81.21</u>	<u>16.71</u>	<u>1.10</u>	<u>17.81</u>	<u>1,721.58</u>
Active Days: 1											
Asphalt 08/29/2008-09/12/2008	0.65	3.66	2.10	0.00	0.00	0.31	0.31	0.00	0.29	0.29	277.82
Paving Off-Gas	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.60	3.53	1.80	0.00	0.00	0.30	0.30	0.00	0.28	0.28	239.36
Paving On Road Diesel	0.01	0.12	0.04	0.00	0.00	0.01	0.01	0.00	0.00	0.00	16.16
Paving Worker Trips	0.01	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.30
Building 09/12/2008-04/23/2009	0.93	3.96	3.64	0.00	0.00	0.35	0.36	0.00	0.32	0.32	417.61
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.01	0.11	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	21.44
Building Worker Trips	0.03	0.05	1.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.76
Fine Grading 07/31/2008-09/12/2008	1.33	11.74	4.84	0.00	80.00	0.54	80.54	16.71	0.49	17.20	1,026.15
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	1.32	11.71	4.27	0.00	0.00	0.54	0.54	0.00	0.49	0.49	975.97
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.02	0.03	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.17
Time Slice 9/15/2008-12/31/2008	0.93	3.96	3.64	0.00	0.00	0.35	0.36	0.00	0.32	0.32	417.61
Active Days: 78											
Building 09/12/2008-04/23/2009	0.93	3.96	3.64	0.00	0.00	0.35	0.36	0.00	0.32	0.32	417.61
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.01	0.11	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.00	21.44
Building Worker Trips	0.03	0.05	1.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.76

1/7/2008 7:00:10 PM

Time Slice 1/1/2009-4/23/2009	<u>0.89</u>	<u>3.83</u>	<u>3.52</u>	<u>0.00</u>	<u>0.00</u>	<u>0.34</u>	<u>0.34</u>	<u>0.00</u>	<u>0.31</u>	<u>0.31</u>	<u>417.67</u>
Active Days: 81											
Building 09/12/2008-04/23/2009	0.89	3.83	3.52	0.00	0.00	0.34	0.34	0.00	0.31	0.31	417.67
Building Off Road Diesel	0.85	3.68	2.44	0.00	0.00	0.33	0.33	0.00	0.31	0.31	303.41
Building Vendor Trips	0.01	0.11	0.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	21.45
Building Worker Trips	0.03	0.04	0.98	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.82

Phase Assumptions

Phase: Demolition 6/9/2008 - 7/30/2008 - Type Your Description Here

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Fine Grading 7/31/2008 - 9/12/2008 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

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

Phase: Paving 8/29/2008 - 9/12/2008 - Default Paving Description

Acres to be Paved: 0.15

Off-Road Equipment:

1/7/2008 7:00:10 PM

0.4 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

0.4 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 9/12/2008 - 4/23/2009 - Default Building Construction Description

Off-Road Equipment:

0.8 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

0.4 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

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	0.01	0.12	0.10	0.00	0.00	0.00	149.29
Hearth - No Summer Emissions							
Landscape	0.37	0.06	4.64	0.00	0.02	0.02	8.43
Consumer Products	0.00						
Architectural Coatings	0.08						
TOTALS (lbs/day, unmitigated)	0.46	0.18	4.74	0.00	0.02	0.02	157.72

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Fast food rest. w/ drive thru	9.63	9.67	111.22	0.08	13.08	2.54	8,246.56
Strip mall	2.15	1.96	22.32	0.02	2.59	0.50	1,636.47
Gasoline/service station	9.08	6.76	75.53	0.05	7.57	1.48	4,894.84
TOTALS (lbs/day, unmitigated)	20.86	18.39	209.07	0.15	23.24	4.52	14,777.87

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 Temperature (F): 95 Season: Summer

Erfac: Version : Erfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Fast food rest. w/ drive thru		496.12	1000 sq ft	3.40	1,686.81	7,577.94
Strip mall		42.94	1000 sq ft	8.60	369.28	1,500.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					4,009.45	13,455.38

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Fast food rest. w/ drive thru				5.0	2.5	92.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Strip mall				2.0	1.0	97.0
Gasoline/service station				2.0	1.0	97.0

Page: 1

1/7/2008 6:57:56 PM

Urbemis 2007 Version 9.2.2

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt1.urb9

Project Name: Elk Grove Plaza III Alt 1

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

1/7/2008 6:57:56 PM

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (lbs/day unmitigated)	3.26	20.54	15.64	0.01	80.03	1.25	81.28	16.72	1.15	17.87	2,265.41
2009 TOTALS (lbs/day unmitigated)	1.04	4.45	8.04	0.01	0.03	0.36	0.39	0.01	0.33	0.34	894.95

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)	0.46	1.02	0.85	0.00	0.00	0.00	1,220.55

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)	21.79	24.17	181.04	0.10	20.70	4.03	10,702.60

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)	22.25	25.19	181.89	0.10	20.70	4.03	11,923.15

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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1/7/2008 6:57:56 PM

Time Slice 9/12/2008-9/12/2008	<u>3.26</u>	<u>20.54</u>	<u>15.64</u>	<u>0.01</u>	<u>80.03</u>	<u>1.25</u>	<u>81.28</u>	<u>16.72</u>	<u>1.15</u>	<u>17.87</u>	<u>2,265.41</u>
Active Days: 1											
Asphalt 08/29/2008-09/12/2008	0.83	4.17	2.27	0.00	0.00	0.33	0.33	0.00	0.30	0.31	344.64
Paving Off-Gas	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.60	3.53	1.80	0.00	0.00	0.30	0.30	0.00	0.28	0.28	239.36
Paving On Road Diesel	0.04	0.63	0.22	0.00	0.00	0.03	0.03	0.00	0.02	0.03	82.98
Paving Worker Trips	0.01	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.30
Building 09/12/2008-04/23/2009	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.05	0.58	0.57	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.02
Building Worker Trips	0.16	0.25	5.49	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.21
Fine Grading 07/31/2008-09/12/2008	1.33	11.74	4.84	0.00	80.00	0.54	80.54	16.71	0.49	17.20	1,026.15
Fine Grading Dust	0.00	0.00	0.00	0.00	80.00	0.00	80.00	16.71	0.00	16.71	0.00
Fine Grading Off Road Diesel	1.32	11.71	4.27	0.00	0.00	0.54	0.54	0.00	0.49	0.49	975.97
Fine Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading Worker Trips	0.02	0.03	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.17
Time Slice 9/15/2008-12/31/2008	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Active Days: 78											
Building 09/12/2008-04/23/2009	1.10	4.64	8.53	0.01	0.03	0.38	0.40	0.01	0.35	0.36	894.63
Building Off Road Diesel	0.89	3.80	2.47	0.00	0.00	0.34	0.34	0.00	0.32	0.32	303.41
Building Vendor Trips	0.05	0.58	0.57	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.02
Building Worker Trips	0.16	0.25	5.49	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.21

1/7/2008 6:57:56 PM

Time Slice 1/1/2009-4/23/2009	<u>1.04</u>	<u>4.45</u>	<u>8.04</u>	<u>0.01</u>	<u>0.03</u>	<u>0.36</u>	<u>0.39</u>	<u>0.01</u>	<u>0.33</u>	<u>0.34</u>	<u>894.95</u>
Active Days: 81											
Building 09/12/2008-04/23/2009	1.04	4.45	8.04	0.01	0.03	0.36	0.39	0.01	0.33	0.34	894.95
Building Off Road Diesel	0.85	3.68	2.44	0.00	0.00	0.33	0.33	0.00	0.31	0.31	303.41
Building Vendor Trips	0.05	0.55	0.54	0.00	0.00	0.02	0.03	0.00	0.02	0.02	111.03
Building Worker Trips	0.15	0.23	5.06	0.00	0.02	0.01	0.03	0.01	0.01	0.02	480.50

Phase Assumptions

Phase: Demolition 6/9/2008 - 7/30/2008 - Type Your Description Here

Building Volume Total (cubic feet): 0

Building Volume Daily (cubic feet): 0

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Rubber Tired Loaders (164 hp) operating at a 0.54 load factor for 8 hours per day

Phase: Fine Grading 7/31/2008 - 9/12/2008 - Default Fine Site Grading Description

Total Acres Disturbed: 4

Maximum Daily Acreage Disturbed: 4

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

0.4 Crawler Tractors (147 hp) operating at a 0.64 load factor for 8 hours per day

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

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

Phase: Paving 8/29/2008 - 9/12/2008 - Default Paving Description

Acres to be Paved: 0.77

Off-Road Equipment:

1/7/2008 6:57:56 PM

0.4 Pavers (100 hp) operating at a 0.62 load factor for 7 hours per day

0.4 Rollers (95 hp) operating at a 0.56 load factor for 7 hours per day

Phase: Building Construction 9/12/2008 - 4/23/2009 - Default Building Construction Description

Off-Road Equipment:

0.8 Air Compressors (106 hp) operating at a 0.48 load factor for 8 hours per day

0.4 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

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	0.07	1.02	0.85	0.00	0.00	0.00	1,220.55
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping - No Winter Emissions							
Consumer Products	0.00						
Architectural Coatings	0.39						
TOTALS (lbs/day, unmitigated)	0.46	1.02	0.85	0.00	0.00	0.00	1,220.55

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
High turnover (sit-down) rest.	4.91	5.32	40.21	0.02	4.50	0.88	2,335.02
Hotel	6.62	9.19	64.55	0.04	8.63	1.67	4,381.89
Gasoline/service station	10.26	9.66	76.28	0.04	7.57	1.48	3,985.69
TOTALS (lbs/day, unmitigated)	21.79	24.17	181.04	0.10	20.70	4.03	10,702.60

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2010 Temperature (F): 50 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
High turnover (sit-down) rest.		127.15	1000 sq ft	6.80	864.62	2,604.60
Hotel		8.17	rooms	119.00	972.23	4,999.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					3,790.21	11,981.04

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
High turnover (sit-down) rest.				5.0	2.5	92.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Hotel				5.0	2.5	92.5
Gasoline/service station				2.0	1.0	97.0

Page: 1

1/7/2008 7:01:06 PM

Urbemis 2007 Version 9.2.2

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\Owner\Application Data\Urbemis\Version9a\Projects\ElkGrove PlazaIII Alt2.urb9

Project Name: Elk Grove Plaza III Alt 2

Project Location: Sacramento County AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2008 TOTALS (lbs/day unmitigated)	2.91	19.37	10.58	0.00	80.01	1.20	81.21	16.71	1.10	17.81	1,721.58
2009 TOTALS (lbs/day unmitigated)	0.89	3.83	3.52	0.00	0.00	0.34	0.34	0.00	0.31	0.31	417.67

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)	0.09	0.12	0.10	0.00	0.00	0.00	149.29

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)	23.32	26.77	198.74	0.12	23.24	4.52	11,982.72

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)	23.41	26.89	198.84	0.12	23.24	4.52	12,132.01

1/7/2008 7:01:06 PM

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	0.01	0.12	0.10	0.00	0.00	0.00	149.29
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping - No Winter Emissions							
Consumer Products	0.00						
Architectural Coatings	0.08						
TOTALS (lbs/day, unmitigated)	0.09	0.12	0.10	0.00	0.00	0.00	149.29

Area Source Changes to Defaults

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOX</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM25</u>	<u>CO2</u>
Fast food rest. w/ drive thru	10.79	14.24	101.75	0.07	13.08	2.54	6,672.36
Strip mall	2.27	2.87	20.71	0.01	2.59	0.50	1,324.67
Gasoline/service station	10.26	9.66	76.28	0.04	7.57	1.48	3,985.69
TOTALS (lbs/day, unmitigated)	23.32	26.77	198.74	0.12	23.24	4.52	11,982.72

Operational Settings:

Includes correction for passby trips

Does not include double counting adjustment for internal trips

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Fast food rest. w/ drive thru		496.12	1000 sq ft	3.40	1,686.81	7,577.94
Strip mall		42.94	1000 sq ft	8.60	369.28	1,500.98
Gasoline/service station		162.78	pumps	12.00	1,953.36	4,376.46
					4,009.45	13,455.38

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	47.7	1.3	98.3	0.4
Light Truck < 3750 lbs	10.0	3.0	90.0	7.0
Light Truck 3751-5750 lbs	22.5	0.9	98.7	0.4
Med Truck 5751-8500 lbs	10.1	1.0	99.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.1	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	55.6	44.4
Med-Heavy Truck 14,001-33,000 lbs	1.6	6.2	18.8	75.0
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	0.0	0.0	0.0	0.0
Motorcycle	3.5	65.7	34.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.9	0.0	88.9	11.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	10.8	7.3	7.3
Rural Trip Length (miles)	15.0	10.0	10.0	15.0	10.0	10.0
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Fast food rest. w/ drive thru				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0
Gasoline/service station				2.0	1.0	97.0

