

Summary Report for Summer Emissions (Pounds/Day)

File Name:

Project Name: 101 State

Project Location: California State-wide

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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>
013 TOTALS (lbs/day unmitigated)	2.58	20.61	11.97	0.00	2.20	0.99	3.19	0.46	0.91	1.37	2,349.58
2014 TOTALS (lbs/day unmitigated)	0.92	6.83	5.36	0.00	0.01	0.38	0.38	0.00	0.35	0.35	1,032.13

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)	0.24	0.29	1.78	0.00	0.01	0.01	329.21

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)	1.56	1.93	17.24	0.02	3.57	0.69	2,074.28

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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)	1.80	2.22	19.02	0.02	3.58	0.70	2,403.49

Summary Report for Annual Emissions (Tons/Year)

File Name: C:\Documents and Settings\adebusk\Application Data\Urbemis\Version9a\Projects\101 State.urb924

Project Name: 101 State

Project Location: California State-wide

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5	PM2.5 Dust	PM2.5	CO2
2013 TOTALS (tons/year unmitigated)	0.08	0.59	0.42	0.00	0.01	0.03	0.04	0.03	0.00	0.03	78.32
2014 TOTALS (tons/year unmitigated)	0.05	0.40	0.32	0.00	0.00	0.02	0.02	0.02	0.00	0.02	60.90

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.03	0.05	0.18	0.00	0.00	0.00	59.82

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.29	0.41	3.24	0.00	0.65	0.13	361.81

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.32	0.46	3.42	0.00	0.65	0.13	421.63

## GREENHOUSE GAS EMISSIONS CALCULATIONS

### DIRECT GREENHOUSE GAS EMISSIONS

#### Area Source and Traffic-Related CO2 Emissions<sup>1</sup>

Area Source + Operational Emissions = 59.82 + 361.81 = 421.63 tons CO2/year = 382.5 metric tons CO2/year

### INDIRECT GREENHOUSE GAS EMISSIONS

#### Electricity Usage CO2 Emissions<sup>2</sup>

Project sf x commercial electricity usage rate x emission factor (Southern California Edison)  
20,439 sf x 13.63 kWh/sf x 0.6309 lb CO2/kWh = 175,758.37 lb CO2/year = 87.88 tons CO2/year = 79.72 metric tons CO2/year

### TOTAL GREENHOUSE GAS EMISSIONS

Direct + Indirect CO2 Emissions = 382.5 + 79.72 metric tons CO2/year = 462.22 metric tons CO2/year

1 From URBEMIS 2007 Version 9.2.4 Worksheet

2 From APCD Scope and Content Document, Section 5.4.1 (December 2011)