

Appendix D

URBEMIS AIR QUALITY MODEL RESULTS

Urbemis 2007 Version 9.2.4

Detail Report for Summer Operational Unmitigated Emissions (Pounds/Day)

File Name: C:\Users\Eco Analysts\AppData\Roaming\Urbemis\Version9a\Projects\SYMVCD.urb924

Project Name: SYMVCD

Project Location: Feather River AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
YSVCD operations	1.28	1.32	19.50	0.01	0.10	0.06	1,370.28
TOTALS (lbs/day, unmitigated)	1.28	1.32	19.50	0.01	0.10	0.06	1,370.28

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Temperature (F): 85 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
YSVCD operations		204.00	1000 sq ft	1.00	204.00	1,346.40
					204.00	1,346.40

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	0.0	1.0	98.7	0.3
Light Truck < 3750 lbs	100.0	0.0	100.0	0.0
Light Truck 3751-5750 lbs	0.0	1.0	98.5	0.5

Page: 1

5/3/2011 03:40:59 PM

Med Truck 5751-8500 lbs	0.0	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	0.0	0.0	68.0	32.0
Lite-Heavy Truck 10,001-14,000 lbs	0.0	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.0	6.2	18.8	75.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	0.0	5.6	94.4
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	0.0	57.5	42.5	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	83.3	16.7

Travel Conditions

	Residential			Commute	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	10.0	7.3	7.5	10.0	7.4	7.4
Rural Trip Length (miles)	40.0	7.1	7.9	40.0	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	100.0	0.0	0.0			

% of Trips - Commercial (by land

Y ⁽¹⁾ SVCD operations	0.0	0.0	100.0
----------------------------------	-----	-----	-------

Operational Changes to Defaults

The urban/rural selection has been changed from Urban to Rural

Home-based work urban trip length changed from 10.8 miles to 10 miles

Home-based work rural trip length changed from 16.8 miles to 40 miles

Commercial-based commute urban trip length changed from 9.5 miles to 10 miles

Page: 1

5/3/2011 03:40:59 PM

Commercial-based commute rural trip length changed from 14.7 miles to 40 miles

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Users\Eco Analysts\AppData\Roaming\Urbemis\Version9a\Projects\SYMVCD.urb924

Project Name: SYMVCD

Project Location: Feather River AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

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)	1.55	2.20	20.53	0.01	0.10	0.06	1,173.94

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)	1.55	2.20	20.53	0.01	0.10	0.06	1,173.94

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>
YSVCD operations	1.55	2.20	20.53	0.01	0.10	0.06	1,173.94
TOTALS (lbs/day, unmitigated)	1.55	2.20	20.53	0.01	0.10	0.06	1,173.94

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2011 Temperature (F): 40 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
YSVCD operations		204.00	1000 sq ft	1.00	204.00	1,346.40
					204.00	1,346.40

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	0.0	1.0	98.7	0.3
Light Truck < 3750 lbs	100.0	0.0	100.0	0.0
Light Truck 3751-5750 lbs	0.0	1.0	98.5	0.5
Med Truck 5751-8500 lbs	0.0	1.1	97.8	1.1
Lite-Heavy Truck 8501-10,000 lbs	0.0	0.0	68.0	32.0
Lite-Heavy Truck 10,001-14,000 lbs	0.0	0.0	44.4	55.6
Med-Heavy Truck 14,001-33,000 lbs	0.0	6.2	18.8	75.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	0.0	5.6	94.4
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	0.0	57.5	42.5	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.0	7.3	7.5	10.0	7.4	7.4
Rural Trip Length (miles)	40.0	7.1	7.9	40.0	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	100.0	0.0	0.0			
% of Trips - Commercial (by land use)						
YSVCD operations				0.0	0.0	100.0

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Users\Eco Analysts\AppData\Roaming\Urbemis\Version9a\Projects\SYMVCD.urb924

Project Name: SYMVCD

Project Location: Feather River AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

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)	0.25	0.29	3.62	0.00	0.02	0.01	238.13

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)	0.25	0.29	3.62	0.00	0.02	0.01	238.13