

Urbemis 2007 Version 9.2.0

Summary Report for Annual Emissions (Tons/Year)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	0.08	0.15	0.38	0.00	0.00	0.00	176.83

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)	0.51	2.05	5.15	0.01	1.64	0.32	1,214.78

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)	0.59	2.20	5.53	0.01	1.64	0.32	1,391.61

Urbemis 2007 Version 9.2.0

Summary Report for Summer Emissions (Pounds/Day)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	0.44	0.83	2.28	0.00	0.00	0.00	969.19

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)	2.72	10.67	27.46	0.07	8.96	1.76	6,675.04

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 (lbs/day, unmitigated)	3.16	11.50	29.74	0.07	8.96	1.76	7,644.23

Urbemis 2007 Version 9.2.0

Summary Report for Winter Emissions (Pounds/Day)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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)	0.31	0.81	0.68	0.00	0.00	0.00	966.44

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)	3.02	12.32	29.74	0.07	8.96	1.76	6,618.86

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)	3.33	13.13	30.42	0.07	8.96	1.76	7,585.30

Urbemis 2007 Version 9.2.0

Detail Report for Annual Area Source Unmitigated Emissions (Tons/Year)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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	0.15	0.12	0.00	0.00	0.00	176.38
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscape	0.02	0.00	0.26	0.00	0.00	0.00	0.45
Consumer Products	0.00						
Architectural Coatings	0.05						
TOTALS (tons/year, unmitigated)	0.08	0.15	0.38	0.00	0.00	0.00	176.83

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.0

Detail Report for Summer Area Source Unmitigated Emissions (Pounds/Day)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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	0.06	0.81	0.68	0.00	0.00	0.00	966.44
Hearth - No Summer Emissions							
Landscape	0.13	0.02	1.60	0.00	0.00	0.00	2.75
Consumer Products	0.00						
Architectural Coatings	0.25						
TOTALS (lbs/day, unmitigated)	0.44	0.83	2.28	0.00	0.00	0.00	969.19

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.0

Detail Report for Winter Area Source Unmitigated Emissions (Pounds/Day)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

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	0.06	0.81	0.68	0.00	0.00	0.00	966.44
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	0.25						
TOTALS (lbs/day, unmitigated)	0.31	0.81	0.68	0.00	0.00	0.00	966.44

Area Source Changes to Defaults

Urbemis 2007 Version 9.2.0

Detail Report for Annual Operational Unmitigated Emissions (Tons/Year)

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
General heavy industry	0.51	2.05	5.15	0.01	1.64	0.32	1,214.78
TOTALS (tons/year, unmitigated)	0.51	2.05	5.15	0.01	1.64	0.32	1,214.78

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2018 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
General heavy industry		430.00	acres	2.00	860.00	5,160.00
					860.00	5,160.00

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	5.0	0.0	99.8	0.2

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck < 3750 lbs	10.0	0.0	95.7	4.3
Light Truck 3751-5750 lbs	5.0	0.0	100.0	0.0
Med Truck 5751-8500 lbs	0.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	70.0	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.0	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	10.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	0.0	42.3	57.7	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	88.2	11.8

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	6.0	5.0	5.0	3.0	5.0	5.0
Rural Trip Length (miles)	14.0	5.0	5.0	6.0	5.0	5.0
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)

Travel Conditions

	Residential			Commute	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
General heavy industry				100.0	0.0	0.0

Operational Changes to Defaults

Home-based work urban trip length changed from 13 miles to 6 miles

Home-based work rural trip length changed from 13 miles to 14 miles

Commercial-based commute urban trip length changed from 13 miles to 3 miles

Commercial-based commute rural trip length changed from 13 miles to 6 miles

Urbemis 2007 Version 9.2.0

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

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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
General heavy industry	2.72	10.67	27.46	0.07	8.96	1.76	6,675.04
<b>TOTALS (lbs/day, unmitigated)</b>	<b>2.72</b>	<b>10.67</b>	<b>27.46</b>	<b>0.07</b>	<b>8.96</b>	<b>1.76</b>	<b>6,675.04</b>

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2018 Temperature (F): 75 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
General heavy industry		430.00	acres	2.00	860.00	5,160.00
					860.00	5,160.00

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	5.0	0.0	99.8	0.2
Light Truck < 3750 lbs	10.0	0.0	95.7	4.3

4/15/2008 2:01:54 PM

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	5.0	0.0	100.0	0.0
Med Truck 5751-8500 lbs	0.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	70.0	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.0	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	10.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	0.0	42.3	57.7	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	88.2	11.8

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	6.0	5.0	5.0	3.0	5.0	5.0
Rural Trip Length (miles)	14.0	5.0	5.0	6.0	5.0	5.0
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)						
General heavy industry				100.0	0.0	0.0

Page: 3

**4/15/2008 2:01:54 PM**

Operational Changes to Defaults

Home-based work urban trip length changed from 13 miles to 6 miles

Home-based work rural trip length changed from 13 miles to 14 miles

Commercial-based commute urban trip length changed from 13 miles to 3 miles

Commercial-based commute rural trip length changed from 13 miles to 6 miles

Urbemis 2007 Version 9.2.0

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

File Name: P:\2006\06-734 Cold Canyon Landfill Expansion EIR\Reports\A Working EIR\Air Quality\Traffic and Area Source Emissions.urb9

Project Name: Cold Canyon Landfill Expansion EIR Traffic Emissions

Project Location: San Luis Obispo County APCD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

OPERATIONAL EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

<u>Source</u>	ROG	NOX	CO	SO2	PM10	PM25	CO2
General heavy industry	3.02	12.32	29.74	0.07	8.96	1.76	6,618.86
<b>TOTALS (lbs/day, unmitigated)</b>	<b>3.02</b>	<b>12.32</b>	<b>29.74</b>	<b>0.07</b>	<b>8.96</b>	<b>1.76</b>	<b>6,618.86</b>

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2018 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
General heavy industry		430.00	acres	2.00	860.00	5,160.00
					860.00	5,160.00

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	5.0	0.0	99.8	0.2
Light Truck < 3750 lbs	10.0	0.0	95.7	4.3

4/15/2008 2:02:09 PM

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Truck 3751-5750 lbs	5.0	0.0	100.0	0.0
Med Truck 5751-8500 lbs	0.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	70.0	0.0	76.2	23.8
Lite-Heavy Truck 10,001-14,000 lbs	0.0	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	10.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.0	0.0	0.0	100.0
Other Bus	0.0	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	0.0	42.3	57.7	0.0
School Bus	0.0	0.0	0.0	100.0
Motor Home	0.0	0.0	88.2	11.8

Travel Conditions

	Residential			Commuter	Commercial	
	Home-Work	Home-Shop	Home-Other		Non-Work	Customer
Urban Trip Length (miles)	6.0	5.0	5.0	3.0	5.0	5.0
Rural Trip Length (miles)	14.0	5.0	5.0	6.0	5.0	5.0
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)						
General heavy industry				100.0	0.0	0.0

Page: 3

**4/15/2008 2:02:09 PM**

Operational Changes to Defaults

Home-based work urban trip length changed from 13 miles to 6 miles

Home-based work rural trip length changed from 13 miles to 14 miles

Commercial-based commute urban trip length changed from 13 miles to 3 miles

Commercial-based commute rural trip length changed from 13 miles to 6 miles