

URBEMIS 2002 For Windows 7.4.2

File Name: C:\Program Files\URBEMIS 2002 For Windows\Projects2k2\Hall of Justice.urb
 Project Name: Hall of Justice
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
 (Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2004 *** TOTALS (lbs/day,unmitigated)	16.97	289.47	92.55	3.22	66.22	6.60	59.62

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2005 *** TOTALS (lbs/day,unmitigated)	20.70	139.73	157.89	0.38	38.32	6.21	32.11

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 *** TOTALS (lbs/day,unmitigated)	145.23	77.68	97.28	0.00	3.72	3.44	0.28

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	0.24	2.12	1.43	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	15.24	12.19	133.65	0.10	9.55

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	15.47	14.31	135.08	0.10	9.56

URBEMIS 2002 For Windows 7.4.2

File Name: C:\Program Files\URBEMIS 2002 For Windows\Projects2k2\Hall of Justice.urb
 Project Name: Hall of Justice
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Summer)

Construction Start Month and Year: October, 2004
 Construction Duration: 24
 Total Land Use Area to be Developed: 3.2 acres
 Maximum Acreage Disturbed Per Day: 3.2 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 317000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2004***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	58.80	-	58.80
Off-Road Diesel	5.69	35.66	48.35	-	1.48	1.48	0.00
On-Road Diesel	11.17	253.60	42.04	3.22	5.93	5.12	0.81
Worker Trips	0.11	0.21	2.16	0.00	0.01	0.00	0.01
Maximum lbs/day	16.97	289.47	92.55	3.22	66.22	6.60	59.62
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	16.97	289.47	92.55	3.22	66.22	6.60	59.62
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	32.00	-	32.00
Off-Road Diesel	13.70	100.53	104.39	-	4.38	4.38	0.00
On-Road Diesel	1.24	27.79	4.62	0.38	0.66	0.56	0.10
Worker Trips	0.05	0.03	0.64	0.00	0.01	0.00	0.01
Maximum lbs/day	14.99	128.35	109.65	0.38	37.05	4.94	32.11
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	10.25	79.79	74.95	-	3.65	3.65	0.00
Bldg Const Worker Trips	0.90	0.50	10.71	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.76	-	-	-	-	-	-
Asphalt Off-Road Diesel	8.64	56.62	71.70	-	2.47	2.47	0.00
Asphalt On-Road Diesel	0.18	2.91	0.68	0.05	0.08	0.08	0.00
Asphalt Worker Trips	0.04	0.02	0.46	0.00	0.01	0.00	0.01
Maximum lbs/day	20.70	139.73	157.89	0.05	6.36	6.21	0.15
Max lbs/day all phases	20.70	139.73	157.89	0.38	38.32	6.21	32.11
*** 2006***							

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	10.25	76.72	76.94	-	3.42	3.42	0.00
Bldg Const Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	133.28	-	-	-	-	-	-
Arch Coatings Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	145.23	77.68	97.28	0.00	3.72	3.44	0.28
Max lbs/day all phases	145.23	77.68	97.28	0.00	3.72	3.44	0.28

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Oct '04
 Phase 1 Duration: 3 months
 Building Volume Total (cubic feet): 140000
 Building Volume Daily (cubic feet): 140000
 On-Road Truck Travel (VMT): 7779
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Trenchers	82	0.695	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '05
 Phase 2 Duration: 3 months
 On-Road Truck Travel (VMT): 910
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Rubber Tired Dozers	352	0.590	8.0
2	Rubber Tired Loaders	165	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '05
 Phase 3 Duration: 18 months
 Start Month/Year for SubPhase Building: Apr '05
 SubPhase Building Duration: 10.2 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
4	Off Highway Tractors	255	0.410	8.0

Start Month/Year for SubPhase Architectural Coatings: Feb '06

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Apr '05

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 3.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)						
Source	ROG	NOx	CO	SO2	PM10	
Natural Gas	0.15	2.11	0.85	-	0.00	
Wood Stoves - No summer emissions						
Fireplaces - No summer emissions						
Landscaping	0.08	0.01	0.58	0.00	0.00	
Consumer Prdcts	0.00	-	-	-	-	
TOTALS (lbs/day, unmitigated)	0.24	2.12	1.43	0.00	0.01	

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Government (civic center)	15.24	12.19	133.65	0.10	9.55
TOTAL EMISSIONS (lbs/day)	15.24	12.19	133.65	0.10	9.55

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2004 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Trip Rate	Size	Total Trips
Government (civic center)	3.32 trips / 1000 sq. ft.	317.00	1,052.44

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.70	96.80	0.50
Light Truck < 3,750 lbs	15.10	4.60	92.70	2.70
Light Truck 3,751- 5,750	15.60	2.60	96.20	1.20
Med Truck 5,751- 8,500	6.90	2.90	94.20	2.90
Lite-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.20	0.00	0.00	100.00
Motor Home	1.30	15.40	76.90	7.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Government (civic center)	10.0	5.0	85.0
---------------------------	------	-----	------

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Architectural Coatings: paint thickness (mils) (non-res) changed from 1 to .25

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations