

URBEMIS ASSUMPTIONS

The assumptions provided below are based on the inputs to the three URBEMIS modeling runs, the output of which follow. It is important to note that each of the following tasks (i.e. Remediation Task 1, Remediation Task 2, and Development), and the corresponding subtasks, are assumed to occur consecutively, except in the case of building construction activities (e.g. building construction and asphalt paving activities associated with Development).

URBEMIS Run 1: Remediation Task 1—Demolition and Clay Pigeon Removal

1. The project start dates were estimated as:

Estimated Start Month: February

Estimated Start Year: 2007

Estimated Length of Construction Period: 2.64 months (assuming 22 working days per month)

The URBEMIS default project phase durations were overridden as follows:

- 0.5 months (11 days) of demolition, and demolition debris loading and hauling; followed by,
 - 2.14 months (47 days) of clay pigeon excavation (assumed to be a "bulldozer excavation" construction activity from SMAQMD URBEMIS guidance), loading and hauling.
2. The SMAQMD URBEMIS guidance was used to estimate the URBEMIS input for "actively graded" acreage. Since the clay pigeons are primarily on Parcel A and exist on a relatively limited area, 2.275 acres (or 25% of the 9.1 acres that make up Parcel A) was input as the maximum daily acreage disturbed. Although a portion of Parcel B will be subject to clay pigeon removal, the total acreage input to URBEMIS for Run 1 was 9.1 acres.
 3. The volume of demolished building material was calculated using the default calculations within URBEMIS; however the volumes of the multiple buildings slated for demolition were approximated as one building of the following dimensions: 68.45 feet (total width) x 68.45 feet (total length) x 10 feet (total height). This results in a total building volume of 46,854 cubic feet. The following building dimensions, equivalent to approximately 11.5% of the total building volume, were input to estimate the maximum amount of demolition and hauling that would take place in one day: 23.24 feet (total width) x 23.24 feet (total length) x 10 feet (total height). This results in a maximum daily demolition and hauling volume of 5,400 cubic feet.

4. Demolished building materials would require approximately 11 days to haul, based on an URBEMIS default truck capacity of 20 cubic yards. A roundtrip mileage of 118 miles to a disposal facility was used (as borrowed from reference in Item 5 below).
5. Several project assumptions provided by Wood Rodgers, Inc. included a capacity of 10 cubic yards per truck of clay pigeons and 30 roundtrips per day. City of Sacramento staff provided a roundtrip mileage to a disposal facility of 118 miles.
6. Based on the recommendations of the SMAQMD URBEMIS guidance, one (1) Rubber Tired Loader was specified as the equipment necessary for the demolition phase.
7. Based on the recommendations of the SMAQMD URBEMIS guidance, the fractional pieces of equipment for the grading phase was determined based on the ratio of 1 piece of equipment per 10 acres and the maximum daily acreage disturbed (2.275 acres). The following equipment were input to the model for this task:

0.2275 Crawler Tractors
0.2275 Rubber Tired Loaders

URBEMIS Run 2: Remediation Task 2—Impacted Soil Removal/Placement, Clean Soil Import and Cap Construction (Asphalt)

1. The project start dates were estimated as:

Estimated Start Month: March
Estimated Start Year: 2007
Estimated Length of Construction Period: 5.5 months (assuming 22 working days per month)

The URBEMIS default project phase durations were overridden as follows:

- 5 months (110 days) of impacted soil removal/placement and clean soil import (assumed to take place simultaneously) (assumed to be a "grading" construction activity using SMAQMD URBEMIS guidance);
 - 0.5 months (11 days) of asphalt placement over Parcel B clay pigeon excavation (assumed to be a "paving" construction activity from SMAQMD URBEMIS guidance).
2. The SMAQMD URBEMIS guidance was used to estimate the URBEMIS input for "actively graded" acreage. Since this work takes place over both Parcels A and B and the roadway area, 5 acres (or 25% of the 20 acres that make up the project) was input as the maximum daily acreage disturbed.

3. The total amount of soil to be imported was input as 132,700 cubic yards, based on information provided by Wood Rodgers, Inc.. Additionally, a haul truck capacity of 12 cubic yards was used together with a roundtrip distance of 20 miles (soil would be imported from a 15-mile radius), both provided by Wood Rodgers, Inc. Soil importing was estimated to take place over a total of 110 working days, at a rate of approximately 100 roundtrips per day.
4. Based on the recommendations of the SMAQMD URBEMIS guidance, the fractional pieces and the types of equipment for a "grading" construction activity was determined based on the ratio of 1 piece of equipment per 10 acres and the maximum daily acreage disturbed (5 acres).

Grading

0.5 Crawler Tractor

0.5 Grader

0.5 Off-Highway Truck (water truck)

URBEMIS Run 3: Initial Development (2007) of Automobile Dealership and Other Automotive-Related Businesses—Includes Emissions from Construction on Parcel A and the 2.5 acres of "Right of Way"; and Operational Emissions

Construction

1. The project start dates were estimated as:

Estimated Start Month: July

Estimated Start Year: 2007

Estimated Length of Construction Period: 6 months (assuming 22 working days per month)

The following default URBEMIS project phase durations were used for calculating construction emissions:

- 15-16 days (0.7 months) of site grading activities and demolition debris loading and hauling; followed by,
 - 116-117 days (5.3 months) of building construction activities, including asphalt paving.
2. The SMAQMD URBEMIS guidance was used to estimate the URBEMIS input for "actively graded" acreage. Since this work takes place over both Parcel A and the "right of way" area, 2.9 acres (or 25% of the 11.6 acres that make up Parcel A and the "right of way" area) was input as the maximum daily acreage disturbed.

3. It was assumed that no soil would need to be imported/exported, as the bulk of grading was performed during prior remediation activities.
4. Based on the recommendations of the SMAQMD URBEMIS guidance, the fractional pieces of and the types of equipment for the various construction activities were determined based on the ratio of 1 piece of equipment per 10 acres and the maximum daily acreage disturbed (2.9 acres).

Grading Phase

Some finish grading may be required on Parcel A; however, the bulk of grading activity would be limited to the 2.5 acres of "right of way" (e.g. road construction). Additional equipment, above and beyond that recommended by SMAQMD, was also specified (see "Additional Anticipated Activity" below). The "Bore/Drill Rig" specified would be used to place a utility line beneath Business 80. It is assumed to take place concurrently with grading activities; however, it is not dependent upon the acreage. A conservative value of 0.5 was used to account for this piece of equipment. The following equipment were input to URBEMIS for estimating emissions during the Grading Phase:

Grading

0.29 Crawler Tractor
0.29 Grader
0.29 Off-Highway Truck (water truck)

Additional Anticipated Activity (Utility Placement)

0.5 Bore/Drill Rig

TOTAL:

0.29 Crawler Tractor
0.29 Grader
0.29 Off-Highway Truck
0.5 Bore/Drill Rig

Building Construction Phase

The bulk of building construction activities would occur on Parcel A; however, some sidewalk and other roadside construction (e.g. bike lanes, signage/lighting placement) may take place within the "right of way". Additional equipment, above and beyond that recommended by SMAQMD, was also specified (see "Additional Anticipated Activity" below). The "Rough Terrain Forklift" specified would be used to move construction materials around the project site. The aforementioned ratio for fractional pieces of equipment was used for this equipment. The following equipment were input to URBEMIS for estimating emissions during the Building Construction Phase:

Building Construction

- 0.29 Other Equipment (generator—portable equipment operation)
- 0.29 Other Equipment (air compressor—portable equipment operation)
- 0.29 Other Equipment (air compressor—architectural coatings application)

Additional Anticipated Activity (Construction Materials Placement)

- 0.29 Rough Terrain Forklift

TOTAL:

- 0.87 Other Equipment
- 0.29 Rough Terrain Forklift

Asphalt Phase

It has been assumed that the entire surface area of Parcel A and the roadway (total of 11.6 acres), minus the square footage of the buildings (90,000 square feet or 2.07 acres). A total of 9.53 acres of asphalt paving was input to URBEMIS.

The following equipment were input to URBEMIS for estimating emissions during the Asphalt Phase:

Paving

- 0.95 Pavers
- 0.95 Rollers

Operational

1. "Office park" was the URBEMIS land use unit type chosen to describe the auto dealership and auto-related businesses.
2. The default URBEMIS trip rate of 11.42 trips per 1,000 square feet of building footprint was replaced with a trip rate of 33.34 trips per 1,000 square feet. This rate was obtained from a 2006 report by Dowling Associates, Inc. entitled "Traffic Impact Analysis, Del Paso Park Project."
3. The operational emission year (and vehicle fleet mix) in URBEMIS was changed from 2005 to 2007.

URBEMIS Run 4: Automobile Dealership Buildout (2010)—Operational Emissions

1. The construction emissions for the auto dealership buildout (estimated to occur in 2010), to include an additional 90,000 square foot building for a total of 180,000 square feet of buildings, were **not calculated** as the emissions are anticipated to be below those estimated for the initial 2007 construction. Lesser emissions are

anticipated for the following reasons: (1) the projects are similar in size (both 90,000 square foot buildings); (2) the paving emissions for all of Parcel A and the roadway was included in URBEMIS Run 3; and, (3) technological advances in equipment over three years would likely lessen emissions from offroad construction equipment. The construction emission calculations in URBEMIS were turned "off" in Run 4.

2. 180,000 square feet of buildings were input under an "Office Park" land use; the default URBEMIS trip rate of 11.42 trips per 1,000 square feet of building footprint was replaced with a trip rate of 33.34 trips per 1,000 square feet. This rate was obtained from a 2006 report by Dowling Associates, Inc. entitled "Traffic Impact Analysis, Del Paso Park Project."
3. The operational emission year (and vehicle fleet mix) in URBEMIS was changed from 2005 to 2010.

URBEMIS RUN 1 (Project Interval No. 1)

- Remediation—Clay Pigeon Removal
- Demolition of Existing Structures

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_edit\DEL PASO PROJECT--REMEDIA
Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
Project Location: Lower Sacramento Valley Air Basin
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
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	5.31	95.54	22.48	0.16	25.25	2.13	23.12

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIA
Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	5.31	95.54	22.48	0.16	25.25	2.13	23.12

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIA
 Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
 Project Location: Lower Sacramento Valley Air Basin
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: February, 2007
 Construction Duration: 2.64
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.275 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	1.35	8.03	11.49	-	0.26	0.26	0.00
On-Road Diesel	1.56	30.66	5.75	0.05	0.78	0.66	0.12
Worker Trips	0.01	0.03	0.26	0.00	0.00	0.00	0.00
Maximum lbs/day	2.92	38.72	17.50	0.05	3.31	0.92	2.39
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.75	-	22.75
Off-Road Diesel	0.64	4.34	5.05	-	0.17	0.17	0.00
On-Road Diesel	4.65	91.17	17.09	0.16	2.33	1.96	0.37
Worker Trips	0.02	0.03	0.34	0.00	0.00	0.00	0.00
Maximum lbs/day	5.31	95.54	22.48	0.16	25.25	2.13	23.12
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	5.31	95.54	22.48	0.16	25.25	2.13	23.12

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: Feb '07
 Phase 1 Duration: 0.5 months
 Building Volume Total (cubic feet): 46854.025
 Building Volume Daily (cubic feet): 5400.04644
 On-Road Truck Travel (VMT): 1180
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Feb '07
 Phase 2 Duration: 2.14 months
 On-Road Truck Travel (VMT): 3504.6
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
0	Crawler Tractors	143	0.575	8.0
0	Rubber Tired Loaders	165	0.465	8.0

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
Demolition Truck Hauling Miles/Round Trip changed from 30 to 118
Site Grading Truck Haul Capacity (yds3) changed from 20 to 10
Site Grading Miles/Round Trip changed from 20 to 118
Phase 2 mitigation measure On-Road Diesel Exhaust: Use lean-NOx catalyst
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_edit\DEL PASO PROJECT--REMEDIA
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 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: February, 2007
 Construction Duration: 2.64
 Total Land Use Area to be Developed: 9.1 acres
 Maximum Acreage Disturbed Per Day: 2.275 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	2.27	-	2.27
Off-Road Diesel	1.35	8.03	11.49	-	0.26	0.26	0.00
On-Road Diesel	1.56	30.66	5.75	0.05	0.78	0.66	0.12
Worker Trips	0.01	0.03	0.26	0.00	0.00	0.00	0.00
Maximum lbs/day	2.92	38.72	17.50	0.05	3.31	0.92	2.39
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	22.75	-	22.75
Off-Road Diesel	0.64	4.34	5.05	-	0.17	0.17	0.00
On-Road Diesel	4.65	91.17	17.09	0.16	2.33	1.96	0.37
Worker Trips	0.02	0.03	0.34	0.00	0.00	0.00	0.00
Maximum lbs/day	5.31	95.54	22.48	0.16	25.25	2.13	23.12
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	5.31	95.54	22.48	0.16	25.25	2.13	23.12

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: Feb '07
 Phase 1 Duration: 0.5 months
 Building Volume Total (cubic feet): 46854.025
 Building Volume Daily (cubic feet): 5400.04644
 On-Road Truck Travel (VMT): 1180
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Feb '07
 Phase 2 Duration: 2.14 months
 On-Road Truck Travel (VMT): 3504.6
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
0	Crawler Tractors	143	0.575	8.0
0	Rubber Tired Loaders	165	0.465	8.0

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
Demolition Truck Hauling Miles/Round Trip changed from 30 to 118
Site Grading Truck Haul Capacity (yds3) changed from 20 to 10
Site Grading Miles/Round Trip changed from 20 to 118
Phase 2 mitigation measure On-Road Diesel Exhaust: Use lean-NOx catalyst
has been changed from off to on.

URBEMIS RUN 2 (Project Interval No. 2)

- Remediation—Impacted Soil Removal/Placement, Clean Soil Import and Cap Construction

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIA
Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day, unmitigated)	6.10	74.27	38.59	0.09	52.19	1.98	50.21

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIATI
Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	6.10	74.27	38.59	0.09	52.19	1.98	50.21

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIA
 Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
 Project Location: Lower Sacramento Valley Air Basin
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: March, 2007
 Construction Duration: 5.5
 Total Land Use Area to be Developed: 20 acres
 Maximum Acreage Disturbed Per Day: 5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	3.41	21.97	28.16	-	0.86	0.86	0.00
On-Road Diesel	2.66	52.24	9.79	0.09	1.33	1.12	0.21
Worker Trips	0.03	0.06	0.64	0.00	0.00	0.00	0.00
Maximum lbs/day	6.10	74.27	38.59	0.09	52.19	1.98	50.21
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	2.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.88	11.16	15.97	-	0.36	0.36	0.00
Asphalt On-Road Diesel	0.32	5.19	1.17	0.01	0.14	0.13	0.01
Asphalt Worker Trips	0.01	0.01	0.13	0.00	0.00	0.00	0.00
Maximum lbs/day	4.21	16.35	17.26	0.01	0.50	0.49	0.01
Max lbs/day all phases	6.10	74.27	38.59	0.09	52.19	1.98	50.21

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Mar '07
 Phase 2 Duration: 5 months
 On-Road Truck Travel (VMT): 2010
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crawler Tractors	143	0.575	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Aug '07
 Phase 3 Duration: 0.5 months
 SubPhase Building Turned OFF
 SubPhase Architectural Coatings Turned OFF
 Start Month/Year for SubPhase Asphalt: Aug '07
 SubPhase Asphalt Duration: 0.5 months
 Acres to be Paved: 8.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

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

Site Grading Truck Haul Capacity (yds3) changed from 20 to 12

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

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\rev_editDEL PASO PROJECT--REMEDIA
 Project Name: DEL PASO PROJECT--REMEDICATION EFFORTS
 Project Location: Lower Sacramento Valley Air Basin
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: March, 2007
 Construction Duration: 5.5
 Total Land Use Area to be Developed: 20 acres
 Maximum Acreage Disturbed Per Day: 5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
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	-	-	-	-	50.00	-	50.00
Off-Road Diesel	3.41	21.97	28.16	-	0.86	0.86	0.00
On-Road Diesel	2.66	52.24	9.79	0.09	1.33	1.12	0.21
Worker Trips	0.03	0.06	0.64	0.00	0.00	0.00	0.00
Maximum lbs/day	6.10	74.27	38.59	0.09	52.19	1.98	50.21
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	2.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	1.88	11.16	15.97	-	0.36	0.36	0.00
Asphalt On-Road Diesel	0.32	5.19	1.17	0.01	0.14	0.13	0.01
Asphalt Worker Trips	0.01	0.01	0.13	0.00	0.00	0.00	0.00
Maximum lbs/day	4.21	16.35	17.26	0.01	0.50	0.49	0.01
Max lbs/day all phases	6.10	74.27	38.59	0.09	52.19	1.98	50.21

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Mar '07
 Phase 2 Duration: 5 months
 On-Road Truck Travel (VMT): 2010
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Crawler Tractors	143	0.575	8.0
1	Graders	174	0.575	8.0
1	Off Highway Trucks	417	0.490	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Aug '07
 Phase 3 Duration: 0.5 months
 SubPhase Building Turned OFF
 SubPhase Architectural Coatings Turned OFF
 Start Month/Year for SubPhase Asphalt: Aug '07
 SubPhase Asphalt Duration: 0.5 months
 Acres to be Paved: 8.4
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

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

Site Grading Truck Haul Capacity (yds3) changed from 20 to 12

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

URBEMIS RUN 3 (Project Interval No. 3)

- 2007 Construction of Automotive Dealership and Other Automotive-Related Businesses on Parcel A; Improvements to 2.5-acre "Right of Way"
- 2007 Operation of Aforementioned Dealership and Businesses

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2007_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
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
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	9.17	40.31	49.21	0.03	30.34	1.34	29.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.43	0.60	1.28	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	22.79	29.56	299.16	0.16	27.74

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	24.22	30.16	300.44	0.16	27.74

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2007_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day,unmitigated)	9.17	40.31	49.21	0.03	30.34	1.34	29.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.30	0.60	0.50	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	27.13	44.59	331.85	0.16	27.74

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	28.43	45.19	332.35	0.16	27.74

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2007_DEL PASO PROJECT--PARCEL 1
 Project Name: DEL PASO PROJECT--AUTO DEALERS
 Project Location: Lower Sacramento Valley Air Basin
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: July, 2007
 Construction Duration: 6
 Total Land Use Area to be Developed: 11.6 acres
 Maximum Acreage Disturbed Per Day: 2.9 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 90000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
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	-	-	-	-	29.00	-	29.00
Off-Road Diesel	3.44	22.04	28.18	-	0.80	0.80	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.03	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	3.46	22.07	28.74	0.00	29.80	0.80	29.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.03	15.13	15.30	-	0.66	0.66	0.00
Bldg Const Worker Trips	0.62	0.75	13.47	0.01	0.05	0.02	0.03
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	3.78	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.12	12.62	18.06	-	0.40	0.40	0.00
Asphalt On-Road Diesel	0.60	11.80	2.21	0.02	0.26	0.25	0.01
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.00	0.00	0.00
Maximum lbs/day	9.17	40.31	49.21	0.03	1.38	1.34	0.04
Max lbs/day all phases	9.17	40.31	49.21	0.03	30.34	1.34	29.00

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '07
 Phase 2 Duration: 0.7 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
0	Crawler Tractors	143	0.575	8.0
0	Off Highway Tractors	255	0.410	8.0
0	Off Highway Trucks	417	0.490	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Jul '07
 Phase 3 Duration: 5.3 months
 Start Month/Year for SubPhase Building: Jul '07
 SubPhase Building Duration: 5.3 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
0	Rough Terrain Forklifts	94	0.475	8.0

SubPhase Architectural Coatings Turned OFF
 Start Month/Year for SubPhase Asphalt: Dec '07
 SubPhase Asphalt Duration: 0.3 months
 Acres to be Paved: 9.53

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0

1 Rollers

114

0.430

8.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.60	0.50	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.26	-	-	-	-
TOTALS(lbs/day, unmitigated)	1.30	0.60	0.50	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Office park	27.13	44.59	331.85	0.16	27.74
TOTAL EMISSIONS (lbs/day)	27.13	44.59	331.85	0.16	27.74

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Office park		33.34 trips/1000 sq. ft.	90.00	3,000.60
		Sum of Total Trips		3,000.60
		Total Vehicle Miles Traveled		18,255.65

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10	3.30	94.00	2.70
Light Truck 3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			

% of Trips - Commercial (by land use)

Office park	48.0	24.0	28.0
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2007_DEL PASO PROJECT--PARCEL 1
 Project Name: DEL PASO PROJECT--AUTO DEALERS
 Project Location: Lower Sacramento Valley Air Basin
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: July, 2007
 Construction Duration: 6
 Total Land Use Area to be Developed: 11.6 acres
 Maximum Acreage Disturbed Per Day: 2.9 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 90000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
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	-	-	-	-	29.00	-	29.00
Off-Road Diesel	3.44	22.04	28.18	-	0.80	0.80	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.02	0.03	0.56	0.00	0.00	0.00	0.00
Maximum lbs/day	3.46	22.07	28.74	0.00	29.80	0.80	29.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.03	15.13	15.30	-	0.66	0.66	0.00
Bldg Const Worker Trips	0.62	0.75	13.47	0.01	0.05	0.02	0.03
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	3.78	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.12	12.62	18.06	-	0.40	0.40	0.00
Asphalt On-Road Diesel	0.60	11.80	2.21	0.02	0.26	0.25	0.01
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.00	0.00	0.00
Maximum lbs/day	9.17	40.31	49.21	0.03	1.38	1.34	0.04
Max lbs/day all phases	9.17	40.31	49.21	0.03	30.34	1.34	29.00

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
 Start Month/Year for Phase 2: Jul '07
 Phase 2 Duration: 0.7 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Bore/Drill Rigs	218	0.750	8.0
0	Crawler Tractors	143	0.575	8.0
0	Off Highway Tractors	255	0.410	8.0
0	Off Highway Trucks	417	0.490	8.0

Phase 3 - Building Construction Assumptions
 Start Month/Year for Phase 3: Jul '07
 Phase 3 Duration: 5.3 months
 Start Month/Year for SubPhase Building: Jul '07
 SubPhase Building Duration: 5.3 months
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
0	Rough Terrain Forklifts	94	0.475	8.0

SubPhase Architectural Coatings Turned OFF
 Start Month/Year for SubPhase Asphalt: Dec '07
 SubPhase Asphalt Duration: 0.3 months
 Acres to be Paved: 9.53

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0

1	Rollers	114	0.430	8.0
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AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.60	0.50	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	1.26	-	-	-	-
TOTALS (lbs/day, unmitigated)	1.43	0.60	1.28	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Office park	22.79	29.56	299.16	0.16	27.74
TOTAL EMISSIONS (lbs/day)	22.79	29.56	299.16	0.16	27.74

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Office park		33.34 trips/1000 sq. ft.	90.00	3,000.60
Sum of Total Trips				3,000.60
Total Vehicle Miles Traveled				18,255.65

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10	3.30	94.00	2.70
Light Truck 3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			

% of Trips - Commercial (by land use)

Office park	48.0	24.0	28.0
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

URBEMIS RUN 4 (Project Interval No. 4)

- 2010 Operation of Dealership Buildout

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2010_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	2.73	1.20	1.79	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	35.51	46.01	468.78	0.32	55.40

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	38.25	47.21	470.57	0.32	55.41

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2010_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	2.61	1.20	1.01	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	41.94	69.22	518.72	0.32	55.40

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	44.55	70.42	519.73	0.32	55.40

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2010_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.09	1.20	1.01	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	2.52	-	-	-	-
TOTALS (lbs/day, unmitigated)	2.61	1.20	1.01	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Office park	41.94	69.22	518.72	0.32	55.40
TOTAL EMISSIONS (lbs/day)	41.94	69.22	518.72	0.32	55.40

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Office park		33.34 trips/1000 sq. ft.	180.00	6,001.20
			Sum of Total Trips	6,001.20
			Total Vehicle Miles Traveled	36,511.30

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			
% of Trips - Commercial (by land use)						
Office park				48.0	24.0	28.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2010.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\edit_2010_DEL PASO PROJECT--PARCEL 1
Project Name: DEL PASO PROJECT--AUTO DEALERS
Project Location: Lower Sacramento Valley Air Basin
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.09	1.20	1.01	0	0.00
Hearth - No summer emissions					
Landscaping	0.12	0.00	0.78	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	2.52	-	-	-	-
TOTALS(lbs/day,unmitigated)	2.73	1.20	1.79	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Office park	35.51	46.01	468.78	0.32	55.40
TOTAL EMISSIONS (lbs/day)	35.51	46.01	468.78	0.32	55.40

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Office park		33.34 trips/1000 sq. ft.	180.00	6,001.20
		Sum of Total Trips		6,001.20
		Total Vehicle Miles Traveled		36,511.30

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.70	1.10	98.70	0.20
Light Truck < 3,750 lbs	15.20	2.00	96.00	2.00
Light Truck 3,751- 5,750	16.20	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	68.80	31.20	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	9.7	3.8	4.6	7.8	4.5	4.5
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	27.3	21.2	51.5			

% of Trips - Commercial (by land use)

Office park	48.0	24.0	28.0
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2010.