

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
Creek SP\URBEMIS\Construction\Amargosa Planning Area 1.urb
Project Name: Amargosa Creek Planning Area 1 Construction
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
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	34.80	251.01	272.89	0.01	50.73	10.70	40.03
TOTALS (lbs/day, mitigated)	34.80	251.01	272.89	0.01	23.53	10.70	12.83
*** 2009 ***							
TOTALS (lbs/day, unmitigated)	20.40	136.13	164.91	0.00	5.62	5.54	0.08
TOTALS (lbs/day, mitigated)	20.40	136.13	164.91	0.00	5.62	5.54	0.08
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	83.42	153.56	207.08	0.00	5.82	5.65	0.17
TOTALS (lbs/day, mitigated)	83.42	153.56	207.08	0.00	5.82	5.65	0.17

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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
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	34.80	251.01	272.89	0.01	50.73	10.70	40.03
TOTALS (lbs/day, mitigated)	34.80	251.01	272.89	0.01	23.53	10.70	12.83
*** 2009 ***							
TOTALS (lbs/day, unmitigated)	20.40	136.13	164.91	0.00	5.62	5.54	0.08
TOTALS (lbs/day, mitigated)	20.40	136.13	164.91	0.00	5.62	5.54	0.08
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	83.42	153.56	207.08	0.00	5.82	5.65	0.17
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 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: January, 2008
 Construction Duration: 30
 Total Land Use Area to be Developed: 16 acres
 Maximum Acreage Disturbed Per Day: 4 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 150000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
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	-	-	-	-	40.00	-	40.00
Off-Road Diesel	34.45	250.14	264.27	-	10.68	10.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.35	0.87	8.62	0.01	0.05	0.02	0.03
Maximum lbs/day	34.80	251.01	272.89	0.01	50.73	10.70	40.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.13	142.71	156.37	-	5.89	5.89	0.00
Bldg Const Worker Trips	0.30	0.18	3.86	0.00	0.08	0.00	0.08
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	20.43	142.90	160.23	0.00	5.97	5.89	0.08
Max lbs/day all phases	34.80	251.01	272.89	0.01	50.73	10.70	40.03

*** 2009***

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	20.13	135.96	161.35	-	5.53	5.53	0.00
Bldg Const Worker Trips	0.27	0.17	3.56	0.00	0.08	0.00	0.08
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	20.40	136.13	164.91	0.00	5.62	5.54	0.08
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08

*** 2010***

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	20.13	129.39	166.15	-	5.00	5.00	0.00
Bldg Const Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	58.59	-	-	-	-	-	-
Arch Coatings Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.04	0.67	0.13	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	83.42	153.56	207.08	0.00	5.82	5.65	0.17
Max lbs/day all phases	83.42	153.56	207.08	0.00	5.82	5.65	0.17

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '08

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Rubber Tired Dozers	352	0.590	8.0
8	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '08

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '08

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Concrete/Industrial saws	84	0.730	8.0
7	Other Equipment	190	0.620	8.0
3	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '10

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 1.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
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	-	-	-	-	12.80	-	12.80
Off-Road Diesel	34.45	250.14	264.27	-	10.68	10.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.35	0.87	8.62	0.01	0.05	0.02	0.03
Maximum lbs/day	34.80	251.01	272.89	0.01	23.53	10.70	12.83
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.13	142.71	156.37	-	5.89	5.89	0.00
Bldg Const Worker Trips	0.30	0.18	3.86	0.00	0.08	0.00	0.08
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	20.43	142.90	160.23	0.00	5.97	5.89	0.08
Max lbs/day all phases	34.80	251.01	272.89	0.01	23.53	10.70	12.83
*** 2009***							
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	20.13	135.96	161.35	-	5.53	5.53	0.00
Bldg Const Worker Trips	0.27	0.17	3.56	0.00	0.08	0.00	0.08
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	20.40	136.13	164.91	0.00	5.62	5.54	0.08
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08

*** 2010***

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	20.13	129.39	166.15	-	5.00	5.00	0.00
Bldg Const Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	58.59	-	-	-	-	-	-
Arch Coatings Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.04	0.67	0.13	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	83.42	153.56	207.08	0.00	5.82	5.65	0.17
Max lbs/day all phases	83.42	153.56	207.08	0.00	5.82	5.65	0.17

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 time daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '08

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Rubber Tired Dozers	352	0.590	8.0
8	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '08

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '08

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Concrete/Industrial saws	84	0.730	8.0
7	Other Equipment	190	0.620	8.0
3	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '10

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 1.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.00602

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0116

Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

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CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
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	-	-	-	-	40.00	-	40.00
Off-Road Diesel	34.45	250.14	264.27	-	10.68	10.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.35	0.87	8.62	0.01	0.05	0.02	0.03
Maximum lbs/day	34.80	251.01	272.89	0.01	50.73	10.70	40.03
Phase 3 - Building Construction							
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Bldg Const Worker Trips	0.30	0.18	3.86	0.00	0.08	0.00	0.08
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	20.43	142.90	160.23	0.00	5.97	5.89	0.08
Max lbs/day all phases	34.80	251.01	272.89	0.01	50.73	10.70	40.03

*** 2009***

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	20.13	135.96	161.35	-	5.53	5.53	0.00
Bldg Const Worker Trips	0.27	0.17	3.56	0.00	0.08	0.00	0.08
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	20.40	136.13	164.91	0.00	5.62	5.54	0.08
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08

*** 2010***

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	20.13	129.39	166.15	-	5.00	5.00	0.00
Bldg Const Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	58.59	-	-	-	-	-	-
Arch Coatings Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.04	0.67	0.13	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	83.42	153.56	207.08	0.00	5.82	5.65	0.17
Max lbs/day all phases	83.42	153.56	207.08	0.00	5.82	5.65	0.17

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '08

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Rubber Tired Dozers	352	0.590	8.0
8	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '08

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '08

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Concrete/Industrial saws	84	0.730	8.0
7	Other Equipment	190	0.620	8.0
3	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '10

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 1.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
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	-	-	-	-	12.80	-	12.80
Off-Road Diesel	34.45	250.14	264.27	-	10.68	10.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.35	0.87	8.62	0.01	0.05	0.02	0.03
Maximum lbs/day	34.80	251.01	272.89	0.01	23.53	10.70	12.83
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	20.13	142.71	156.37	-	5.89	5.89	0.00
Bldg Const Worker Trips	0.30	0.18	3.86	0.00	0.08	0.00	0.08
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	20.43	142.90	160.23	0.00	5.97	5.89	0.08
Max lbs/day all phases	34.80	251.01	272.89	0.01	23.53	10.70	12.83
*** 2009***							
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	20.13	135.96	161.35	-	5.53	5.53	0.00
Bldg Const Worker Trips	0.27	0.17	3.56	0.00	0.08	0.00	0.08
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	20.40	136.13	164.91	0.00	5.62	5.54	0.08
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08

*** 2010***

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	20.13	129.39	166.15	-	5.00	5.00	0.00
Bldg Const Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	58.59	-	-	-	-	-	-
Arch Coatings Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.16	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.04	0.67	0.13	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	83.42	153.56	207.08	0.00	5.82	5.65	0.17
Max lbs/day all phases	83.42	153.56	207.08	0.00	5.82	5.65	0.17

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 time daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '08

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Rubber Tired Dozers	352	0.590	8.0
8	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '08

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '08

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Concrete/Industrial saws	84	0.730	8.0
7	Other Equipment	190	0.620	8.0
3	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '10

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '10

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 1.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.00602
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 2.urb
 Project Name: Amargosa Creek Planning Area 2 Construction
 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
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	56.44	365.39	470.96	0.01	79.64	14.59	65.05
TOTALS (lbs/day, mitigated)	56.44	365.39	470.96	0.01	35.44	14.59	20.85
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	48.67	309.32	404.49	0.00	12.07	11.90	0.17
TOTALS (lbs/day, mitigated)	48.67	309.32	404.49	0.00	12.07	11.90	0.17
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	190.36	334.41	445.97	0.00	12.94	12.59	0.35
TOTALS (lbs/day, mitigated)	190.36	334.41	445.97	0.00	12.94	12.59	0.35

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 2.urb
 Project Name: Amargosa Creek Planning Area 2 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 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
*** 2010 ***							
TOTALS (lbs/day, unmitigated)	56.44	365.39	470.96	0.01	79.64	14.59	65.05
TOTALS (lbs/day, mitigated)	56.44	365.39	470.96	0.01	35.44	14.59	20.85
*** 2011 ***							
TOTALS (lbs/day, unmitigated)	48.67	309.32	404.49	0.00	12.07	11.90	0.17
TOTALS (lbs/day, mitigated)	48.67	309.32	404.49	0.00	12.07	11.90	0.17
*** 2012 ***							
TOTALS (lbs/day, unmitigated)	190.36	334.41	445.97	0.00	12.94	12.59	0.35
TOTALS (lbs/day, mitigated)	190.36	334.41	445.97	0.00	12.94	12.59	0.35

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 2.urb
 Project Name: Amargosa Creek Planning Area 2 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: July, 2010
 Construction Duration: 30
 Total Land Use Area to be Developed: 26 acres
 Maximum Acreage Disturbed Per Day: 6.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 350000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
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	-	-	-	-	65.00	-	65.00
Off-Road Diesel	55.99	364.49	460.23	-	14.56	14.56	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.45	0.90	10.73	0.01	0.08	0.03	0.05
Maximum lbs/day	56.44	365.39	470.96	0.01	79.64	14.59	65.05
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	56.44	365.39	470.96	0.01	79.64	14.59	65.05

*** 2011***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	48.67	309.32	404.49	0.00	12.07	11.90	0.17

*** 2012***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Arch Coatings Off-Gas	136.70	-	-	-	-	-	-
Arch Coatings Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Asphalt Off-Gas	0.37	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.57	0.31	0.00	0.03	0.03	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	190.36	334.41	445.97	0.00	12.94	12.59	0.35
Max lbs/day all phases	190.36	334.41	445.97	0.00	12.94	12.59	0.35

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
13	Rubber Tired Dozers	352	0.590	8.0
13	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '10

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '10

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Concrete/Industrial saws	84	0.730	8.0
16	Other Equipment	190	0.620	8.0
8	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '12

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '12

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
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	-	-	-	-	20.80	-	20.80
Off-Road Diesel	55.99	364.49	460.23	-	14.56	14.56	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.45	0.90	10.73	0.01	0.08	0.03	0.05
Maximum lbs/day	56.44	365.39	470.96	0.01	35.44	14.59	20.85
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	56.44	365.39	470.96	0.01	35.44	14.59	20.85
*** 2011***							
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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	48.67	309.32	404.49	0.00	12.07	11.90	0.17

*** 2012***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Arch Coatings Off-Gas	136.70	-	-	-	-	-	-
Arch Coatings Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Asphalt Off-Gas	0.37	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.57	0.31	0.00	0.03	0.03	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	190.36	334.41	445.97	0.00	12.94	12.59	0.35
Max lbs/day all phases	190.36	334.41	445.97	0.00	12.94	12.59	0.35

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
13	Rubber Tired Dozers	352	0.590	8.0
13	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '10

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '10

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Concrete/Industrial saws	84	0.730	8.0
16	Other Equipment	190	0.620	8.0
8	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '12

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '12

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 2.urb
 Project Name: Amargosa Creek Planning Area 2 Construction
 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: July, 2010
 Construction Duration: 30
 Total Land Use Area to be Developed: 26 acres
 Maximum Acreage Disturbed Per Day: 6.5 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 350000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
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	-	-	-	-	65.00	-	65.00
Off-Road Diesel	55.99	364.49	460.23	-	14.56	14.56	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.45	0.90	10.73	0.01	0.08	0.03	0.05
Maximum lbs/day	56.44	365.39	470.96	0.01	79.64	14.59	65.05
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	56.44	365.39	470.96	0.01	79.64	14.59	65.05

*** 2011***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	48.67	309.32	404.49	0.00	12.07	11.90	0.17

*** 2012***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Arch Coatings Off-Gas	136.70	-	-	-	-	-	-
Arch Coatings Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Asphalt Off-Gas	0.37	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.57	0.31	0.00	0.03	0.03	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	190.36	334.41	445.97	0.00	12.94	12.59	0.35
Max lbs/day all phases	190.36	334.41	445.97	0.00	12.94	12.59	0.35

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
13	Rubber Tired Dozers	352	0.590	8.0
13	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '10

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '10

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Concrete/Industrial saws	84	0.730	8.0
16	Other Equipment	190	0.620	8.0
8	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '12

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '12

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2010***							
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	-	-	-	-	20.80	-	20.80
Off-Road Diesel	55.99	364.49	460.23	-	14.56	14.56	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.45	0.90	10.73	0.01	0.08	0.03	0.05
Maximum lbs/day	56.44	365.39	470.96	0.01	35.44	14.59	20.85
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	56.44	365.39	470.96	0.01	35.44	14.59	20.85
*** 2011***							
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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
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	48.67	309.32	404.49	0.00	12.07	11.90	0.17
Max lbs/day all phases	48.67	309.32	404.49	0.00	12.07	11.90	0.17

*** 2012***

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	48.15	308.99	397.56	-	11.89	11.89	0.00
Bldg Const Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Arch Coatings Off-Gas	136.70	-	-	-	-	-	-
Arch Coatings Worker Trips	0.52	0.32	6.93	0.00	0.18	0.01	0.17
Asphalt Off-Gas	0.37	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.57	0.31	0.00	0.03	0.03	0.00
Asphalt Worker Trips	0.02	0.01	0.25	0.00	0.01	0.00	0.01
Maximum lbs/day	190.36	334.41	445.97	0.00	12.94	12.59	0.35
Max lbs/day all phases	190.36	334.41	445.97	0.00	12.94	12.59	0.35

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '10

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
13	Rubber Tired Dozers	352	0.590	8.0
13	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '10

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '10

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
8	Concrete/Industrial saws	84	0.730	8.0
16	Other Equipment	190	0.620	8.0
8	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '12

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '12

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 3.urb
 Project Name: Amargosa Creek Planning Area 3 Construction
 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
*** 2013 ***							
TOTALS (lbs/day, unmitigated)	66.98	425.35	556.97	0.01	86.41	16.36	70.05
TOTALS (lbs/day, mitigated)	66.98	425.35	556.97	0.01	38.81	16.36	22.45
*** 2014 ***							
TOTALS (lbs/day, unmitigated)	66.98	425.35	556.97	0.00	16.62	16.36	0.26
TOTALS (lbs/day, mitigated)	66.98	425.35	556.97	0.00	16.62	16.36	0.26
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	257.27	449.78	594.65	0.01	17.57	17.04	0.53
TOTALS (lbs/day, mitigated)	257.27	449.78	594.65	0.01	17.57	17.04	0.53

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 3.urb
 Project Name: Amargosa Creek Planning Area 3 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 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
*** 2013 ***							
TOTALS (lbs/day, unmitigated)	66.98	425.35	556.97	0.01	86.41	16.36	70.05
TOTALS (lbs/day, mitigated)	66.98	425.35	556.97	0.01	38.81	16.36	22.45
*** 2014 ***							
TOTALS (lbs/day, unmitigated)	66.98	425.35	556.97	0.00	16.62	16.36	0.26
TOTALS (lbs/day, mitigated)	66.98	425.35	556.97	0.00	16.62	16.36	0.26
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	257.27	449.78	594.65	0.01	17.57	17.04	0.53
TOTALS (lbs/day, mitigated)	257.27	449.78	594.65	0.01	17.57	17.04	0.53

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 3.urb
 Project Name: Amargosa Creek Planning Area 3 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: January, 2013
 Construction Duration: 30
 Total Land Use Area to be Developed: 28 acres
 Maximum Acreage Disturbed Per Day: 7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 475000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2013***							
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	-	-	-	-	70.00	-	70.00
Off-Road Diesel	60.30	392.53	495.63	-	15.68	15.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.50	1.23	12.59	0.01	0.08	0.03	0.05
Maximum lbs/day	60.80	393.76	508.22	0.01	85.76	15.71	70.05
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.01	86.41	16.36	70.05

*** 2014***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.00	16.62	16.36	0.26

*** 2015***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Arch Coatings Off-Gas	185.52	-	-	-	-	-	-
Arch Coatings Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Asphalt Off-Gas	0.50	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.11	0.30	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	257.27	449.78	594.65	0.01	17.57	17.04	0.53
Max lbs/day all phases	257.27	449.78	594.65	0.01	17.57	17.04	0.53

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '13

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
14	Rubber Tired Dozers	352	0.590	8.0
14	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '13

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '13

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
22	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '15

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '15

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2013***							
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	-	-	-	-	22.40	-	22.40
Off-Road Diesel	60.30	392.53	495.63	-	15.68	15.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.50	1.23	12.59	0.01	0.08	0.03	0.05
Maximum lbs/day	60.80	393.76	508.22	0.01	38.16	15.71	22.45
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.01	38.81	16.36	22.45
*** 2014***							
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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.00	16.62	16.36	0.26

*** 2015***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Arch Coatings Off-Gas	185.52	-	-	-	-	-	-
Arch Coatings Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Asphalt Off-Gas	0.50	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.11	0.30	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	257.27	449.78	594.65	0.01	17.57	17.04	0.53
Max lbs/day all phases	257.27	449.78	594.65	0.01	17.57	17.04	0.53

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '13

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
14	Rubber Tired Dozers	352	0.590	8.0
14	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '13

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '13

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
22	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '15

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '15

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 3.urb
 Project Name: Amargosa Creek Planning Area 3 Construction
 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: January, 2013
 Construction Duration: 30
 Total Land Use Area to be Developed: 28 acres
 Maximum Acreage Disturbed Per Day: 7 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 475000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2013***							
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	-	-	-	-	70.00	-	70.00
Off-Road Diesel	60.30	392.53	495.63	-	15.68	15.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.50	1.23	12.59	0.01	0.08	0.03	0.05
Maximum lbs/day	60.80	393.76	508.22	0.01	85.76	15.71	70.05
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.01	86.41	16.36	70.05

*** 2014***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.00	16.62	16.36	0.26

*** 2015***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Arch Coatings Off-Gas	185.52	-	-	-	-	-	-
Arch Coatings Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Asphalt Off-Gas	0.50	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.11	0.30	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	257.27	449.78	594.65	0.01	17.57	17.04	0.53
Max lbs/day all phases	257.27	449.78	594.65	0.01	17.57	17.04	0.53

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '13

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
14	Rubber Tired Dozers	352	0.590	8.0
14	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '13

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '13

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
22	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '15

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '15

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2013***							
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	-	-	-	-	22.40	-	22.40
Off-Road Diesel	60.30	392.53	495.63	-	15.68	15.68	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.50	1.23	12.59	0.01	0.08	0.03	0.05
Maximum lbs/day	60.80	393.76	508.22	0.01	38.16	15.71	22.45
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.01	38.81	16.36	22.45
*** 2014***							
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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.77	0.48	10.33	0.00	0.27	0.01	0.26
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	66.98	425.35	556.97	0.00	16.62	16.36	0.26
Max lbs/day all phases	66.98	425.35	556.97	0.00	16.62	16.36	0.26

*** 2015***

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	66.21	424.87	546.65	-	16.35	16.35	0.00
Bldg Const Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Arch Coatings Off-Gas	185.52	-	-	-	-	-	-
Arch Coatings Worker Trips	0.47	0.30	6.77	0.00	0.27	0.01	0.26
Asphalt Off-Gas	0.50	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.11	0.30	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	257.27	449.78	594.65	0.01	17.57	17.04	0.53
Max lbs/day all phases	257.27	449.78	594.65	0.01	17.57	17.04	0.53

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '13

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
14	Rubber Tired Dozers	352	0.590	8.0
14	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Apr '13

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Apr '13

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
22	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Apr '15

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: May '15

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 4.urb
 Project Name: Amargosa Creek Planning Area 4 Construction
 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
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	86.57	561.62	718.97	0.01	120.02	22.44	97.58
TOTALS (lbs/day, mitigated)	86.57	561.62	718.97	0.01	53.72	22.44	31.28
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	68.79	438.70	571.01	0.00	17.18	16.90	0.28
TOTALS (lbs/day, mitigated)	68.79	438.70	571.01	0.00	17.18	16.90	0.28
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	269.20	463.37	612.77	0.01	18.15	17.58	0.57
TOTALS (lbs/day, mitigated)	269.20	463.37	612.77	0.01	18.15	17.58	0.57

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 4.urb
 Project Name: Amargosa Creek Planning Area 4 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 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
*** 2015 ***							
TOTALS (lbs/day, unmitigated)	86.57	561.62	718.97	0.01	120.02	22.44	97.58
TOTALS (lbs/day, mitigated)	86.57	561.62	718.97	0.01	53.72	22.44	31.28
*** 2016 ***							
TOTALS (lbs/day, unmitigated)	68.79	438.70	571.01	0.00	17.18	16.90	0.28
TOTALS (lbs/day, mitigated)	68.79	438.70	571.01	0.00	17.18	16.90	0.28
*** 2017 ***							
TOTALS (lbs/day, unmitigated)	269.20	463.37	612.77	0.01	18.15	17.58	0.57
TOTALS (lbs/day, mitigated)	269.20	463.37	612.77	0.01	18.15	17.58	0.57

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 4.urb
 Project Name: Amargosa Creek Planning Area 4 Construction
 Project Location: South Coast Air Basin (Los Angeles area)
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
 (Pounds/Day - Winter)

Construction Start Month and Year: July, 2015
 Construction Duration: 30
 Total Land Use Area to be Developed: 39 acres
 Maximum Acreage Disturbed Per Day: 9.75 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 500000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
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	-	-	-	-	97.50	-	97.50
Off-Road Diesel	86.14	560.75	708.05	-	22.40	22.40	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.43	0.87	10.92	0.01	0.12	0.04	0.08
Maximum lbs/day	86.57	561.62	718.97	0.01	120.02	22.44	97.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	86.57	561.62	718.97	0.01	120.02	22.44	97.58

*** 2016***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28

*** 2017***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Arch Coatings Off-Gas	195.29	-	-	-	-	-	-
Arch Coatings Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Asphalt Off-Gas	0.52	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.15	0.31	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	269.20	463.37	612.77	0.01	18.15	17.58	0.57
Max lbs/day all phases	269.20	463.37	612.77	0.01	18.15	17.58	0.57

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
20	Rubber Tired Dozers	352	0.590	8.0
20	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '15

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '15

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '17

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '17

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
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	-	-	-	-	31.20	-	31.20
Off-Road Diesel	86.14	560.75	708.05	-	22.40	22.40	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.43	0.87	10.92	0.01	0.12	0.04	0.08
Maximum lbs/day	86.57	561.62	718.97	0.01	53.72	22.44	31.28
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	86.57	561.62	718.97	0.01	53.72	22.44	31.28
*** 2016***							
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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28

*** 2017***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Arch Coatings Off-Gas	195.29	-	-	-	-	-	-
Arch Coatings Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Asphalt Off-Gas	0.52	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.15	0.31	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	269.20	463.37	612.77	0.01	18.15	17.58	0.57
Max lbs/day all phases	269.20	463.37	612.77	0.01	18.15	17.58	0.57

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
20	Rubber Tired Dozers	352	0.590	8.0
20	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '15

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '15

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '17

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '17

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
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

Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Documents and Settings\glu\My Documents\Alex's Projects\Amargosa
 Creek SP\URBEMIS\Construction\Amargosa Planning Area 4.urb
 Project Name: Amargosa Creek Planning Area 4 Construction
 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: July, 2015
 Construction Duration: 30
 Total Land Use Area to be Developed: 39 acres
 Maximum Acreage Disturbed Per Day: 9.75 acres
 Single Family Units: 0 Multi-Family Units: 0
 Retail/Office/Institutional/Industrial Square Footage: 500000

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
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	-	-	-	-	97.50	-	97.50
Off-Road Diesel	86.14	560.75	708.05	-	22.40	22.40	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.43	0.87	10.92	0.01	0.12	0.04	0.08
Maximum lbs/day	86.57	561.62	718.97	0.01	120.02	22.44	97.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	86.57	561.62	718.97	0.01	120.02	22.44	97.58

*** 2016***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28

*** 2017***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Arch Coatings Off-Gas	195.29	-	-	-	-	-	-
Arch Coatings Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
Asphalt Off-Gas	0.52	-	-	-	-	-	-
Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
Asphalt On-Road Diesel	0.08	1.15	0.31	0.01	0.03	0.03	0.00
Asphalt Worker Trips	0.01	0.01	0.16	0.00	0.01	0.00	0.01
Maximum lbs/day	269.20	463.37	612.77	0.01	18.15	17.58	0.57
Max lbs/day all phases	269.20	463.37	612.77	0.01	18.15	17.58	0.57

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
20	Rubber Tired Dozers	352	0.590	8.0
20	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '15

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '15

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
11	Concrete/Industrial saws	84	0.730	8.0
23	Other Equipment	190	0.620	8.0
11	Rough Terrain Forklifts	94	0.475	8.0

Start Month/Year for SubPhase Architectural Coatings: Oct '17

SubPhase Architectural Coatings Duration: 2.7 months

Start Month/Year for SubPhase Asphalt: Nov '17

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	8.0
1	Pavers	132	0.590	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2015***							
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	-	-	-	-	31.20	-	31.20
Off-Road Diesel	86.14	560.75	708.05	-	22.40	22.40	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.43	0.87	10.92	0.01	0.12	0.04	0.08
Maximum lbs/day	86.57	561.62	718.97	0.01	53.72	22.44	31.28
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	86.57	561.62	718.97	0.01	53.72	22.44	31.28
*** 2016***							
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	68.28	438.38	563.71	-	16.89	16.89	0.00
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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	68.79	438.70	571.01	0.00	17.18	16.90	0.28
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28

*** 2017***

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	68.28	438.38	563.71	-	16.89	16.89	0.00
Bldg Const Worker Trips	0.51	0.32	7.29	0.00	0.29	0.01	0.28
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Asphalt Off-Road Diesel	4.00	23.19	33.99	-	0.64	0.64	0.00
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Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 68%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jul '15

Phase 2 Duration: 3.3 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
20	Rubber Tired Dozers	352	0.590	8.0
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Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Oct '15

Phase 3 Duration: 26.7 months

Start Month/Year for SubPhase Building: Oct '15

SubPhase Building Duration: 26.7 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Start Month/Year for SubPhase Architectural Coatings: Oct '17

SubPhase Architectural Coatings Duration: 2.7 months

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SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 5.7

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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1	Pavers	132	0.590	8.0
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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0116
Phase 2 mitigation measure Soil Disturbance: Rule 403: Water exposed surfaces 3 times daily
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