

03/28/2007 3:16 PM

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)

					PM10	PM10	PM10
*** 2008 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2009 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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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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 - Winter)

CONSTRUCTION EMISSION ESTIMATES							
					PM10	PM10	PM10
*** 2008 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2009 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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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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

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)

				PM10	PM10	PM10			
ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST			
_	_		_		_	0.00			
			-			0.00			
						0.00			
0.00			0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Phase 2 - Site Grading Emissions									
_	_	_	_	40.00	_	40.00			
34.45	250.14	264.27	_	10.68	10.68	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
						0.03			
34.80	251.01	272.89	0.01	50.73	10.70	40.03			
20.13	142.71	156.37	=	5.89	5.89	0.00			
0.30	0.18	3.86	0.00	0.08	0.00	0.08			
0.00	_	-	_	-	_	_			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
0.00	-	_	-	_	_	_			
0.00	0.00	0.00	_	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
20.43	142.90	160.23	0.00	5.97	5.89	0.08			
34.80	251.01	272.89	0.01	50.73	10.70	40.03			
	ns - 34.45	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ns	ns	0.00 0.00 0.00 0.00 - 0.00 0.00 0.00 0.0	ROG NOX CO SO2 TOTAL 0.00 0.00 0.00 0.00 - 0.00 0.00 0.00	ROG NOX CO SO2 TOTAL EXHAUST 0.000 DIS 40.000 10.68 10.68 0.000 0.000 0.000 0.000 0.000 0.000 0.35 0.87 8.62 0.01 0.05 0.02 34.80 251.01 272.89 0.01 50.73 10.70 DI 20.13 142.71 156.37 - 5.89 5.89 0.30 0.18 3.86 0.00 0.08 0.00 0.00			

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*** 2009***							
Phase 1 - Demolition Emissio	ne						
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
raximam iss/aay	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss	ions						
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
Phone 2 Puilling Construct							
Phase 3 - Building Construct 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	0.00
Arch Coatings Off-Gas	0.00	0.17	3.50	0.00	0.08	0.00	0.06
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	0.00	0.00	0.00	0.00	0.00	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
Maximum 1557 day	20.10	130.13	101.51	0.00	3.02	3.31	0.00
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08
444 0010444							
*** 2010***							
Phase 1 - Demolition Emissio	ns				0 00		0 00
Fugitive Dust	- 0.00	-	-	-	0.00	-	0.00
Off-Road Diesel On-Road Diesel	0.00	0.00	0.00		0.00	0.00	0.00
	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 Emiss	ions						
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
51 2 5 1111 6							
Phase 3 - Building Construct							
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	- 0.15	-	-	-	-	-
Arch Coatings Worker Trips	0.24	0.15	3.28	0.00	0.08	0.00	0.08
Asphalt Off-Gas	0.16	-	-	_	- 0 64	- 0 64	- 0.00
Asphalt Off-Road Diesel	4.00	23.19	33.99	- 0.00	0.64	0.64	0.00
Asphalt Worker Tring	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

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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 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

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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMATES MITIGATED (IDS/day)							
Q	Dog	170	90	200	PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2008***							
Phase 1 - Demolition Emission	ns				0.00		0.00
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 Emiss	ions						
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 Construct	ion						
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
		0.16	3.00	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	0.00			-			- 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
*** 0000***							
*** 2009***							
Phase 1 - Demolition Emission	ns						
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 Emiss	ions						
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 Construct							
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 Emission	ns						
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 Emissi	ions						
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 Constructi	ion						
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

ri nouu	14415 Welle			
No.	Туре	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

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

DETAIL REPORT (Pounds/Day - Summer)

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)

				PM10	PM10	PM10			
ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST			
_	_		_		_	0.00			
			-			0.00			
						0.00			
0.00			0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Phase 2 - Site Grading Emissions									
_	_	_	_	40.00	_	40.00			
34.45	250.14	264.27	_	10.68	10.68	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
						0.03			
34.80	251.01	272.89	0.01	50.73	10.70	40.03			
20.13	142.71	156.37	=	5.89	5.89	0.00			
0.30	0.18	3.86	0.00	0.08	0.00	0.08			
0.00	_	-	_	-	_	_			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
0.00	-	_	-	_	_	_			
0.00	0.00	0.00	_	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00	0.00			
20.43	142.90	160.23	0.00	5.97	5.89	0.08			
34.80	251.01	272.89	0.01	50.73	10.70	40.03			
	ns - 34.45	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ns	ns	0.00 0.00 0.00 0.00 - 0.00 0.00 0.00 0.0	ROG NOX CO SO2 TOTAL 0.00 0.00 0.00 0.00 - 0.00 0.00 0.00	ROG NOX CO SO2 TOTAL EXHAUST 0.000 DIS 40.000 10.68 10.68 0.000 0.000 0.000 0.000 0.000 0.000 0.35 0.87 8.62 0.01 0.05 0.02 34.80 251.01 272.89 0.01 50.73 10.70 DI 20.13 142.71 156.37 - 5.89 5.89 0.30 0.18 3.86 0.00 0.08 0.00 0.00			

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*** 2009***							
Phase 1 - Demolition Emission	ns						
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 Emiss	ions						
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 Construct	ion						
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
narimam 1887 day	20.10	130.13	101.71	0.00	3.02	3.31	0.00
Max lbs/day all phases	20.40	136.13	164.91	0.00	5.62	5.54	0.08
*** 2010***							
Phase 1 - Demolition Emission	ng						
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
Maximum 105/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss	ions				0.00		0.00
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 Construct	ion						
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

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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

011 1100	a Ligarpinone			
No.	Туре	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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMA	IES MITIGA	TED (IDS/O	lay)		D141.0	DM1.0	DM1.0
Q	Dog	170	90	200	PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2008***							
Phase 1 - Demolition Emission	ns				0.00		0 00
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 Emiss	ions						
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 Construct	ion						
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
		0.16	3.00	0.00	0.08	0.00	0.08
Arch Coatings Off-Gas	0.00			-			- 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
*** 0000***							
*** 2009***							
Phase 1 - Demolition Emission	ns						
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 Emiss	ions						
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 Construct							
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	3						
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 Emission	ons						
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	on						
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

0 100	ad 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

 ${\tt SubPhase \ Architectural \ Coatings \ Duration: \ 2.7 \ months}$

Start Month/Year for SubPhase Asphalt: May '10

SubPhase Asphalt Duration: 1.3 months

Acres to be Paved: 1.7

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

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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 (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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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)

					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2011 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2012 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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

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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							
					PM10	PM10	PM10
*** 2010 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2011 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2012 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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

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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)

CONSTRUCTION EMISSION ESTIMA	CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (IDS/Gay)						
					PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2010***							
Phase 1 - Demolition Emission	ns						
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 Emiss	ions						
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 Construct	ion						
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
ranimam 155, day	10.07	307.32	101.19	0.00	12.07	11.70	0.17
Max lbs/day all phases	56.44	365.39	470.96	0.01	79.64	14.59	65.05

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*** 0011***							
*** 2011***	-						
Phase 1 - Demolition Emissions Fugitive Dust	o .	_	_	_	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
Maximum 155/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emission	ons						
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	-	-	-	-	-	- 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	5						
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 Emission	ons				0.00		0 00
Fugitive Dust	- 0.00	-	-	_	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	
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction	on						
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

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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

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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMA	IES MITIGA	TED (IDS/O	.ay)		D141.0	DM1.0	D1/10
Q	Dog	170	GO	200	PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2010***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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
Phone 3 Puilding Greaterent	4						
Phase 3 - Building Construct		200.00	207 56		11 00	11 00	0 00
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 Emissio	ns						
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 Emiss	ions						
-	TOIIS				0 00		0 00
Fugitive Dust Off-Road Diesel	0.00	- 0.00	- 0.00	_	0.00	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 Construct							
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

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*** 2012***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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

orr-koad 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

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

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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 has been changed from off to on.

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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)

CONSTRUCTION EMISSION ESTIMA	IES UNMITT	GAILD (IDS	/day)		DM1.0	DM1.0	D141.0
_					PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2010***							
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
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 Construct:	ion						
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
				2.700	,	==.,,	
Max lbs/day all phases	56.44	365.39	470.96	0.01	79.64	14.59	65.05

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*** 2011***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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 Emissio	ns						
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 Emiss	ions						
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
101111111111111111111111111111111111111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construct	ion						
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

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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

No.	Туре	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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONDINGCTION ENIGDION EDITING	TIDO TITTEON	IIID (IDD)G	α, ,		PM10	PM10	PM10
Source	ROG	NOx	СО	SO2	TOTAL	EXHAUST	DUST
*** 2010***	1.00	NOX	CO	DOZ	IOIAL	EMIMODI	DODI
Phase 1 - Demolition Emissio	ng						
Fugitive Dust	115	_	_	_	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 Emiss	ions						
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
MaxIIIIIII IDS/Qay	30.44	303.39	470.50	0.01	33.11	14.55	20.03
Phase 3 - Building Construct							
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
Maximum 1957 day	10.07	307.32	101.15	0.00	12.07	11.50	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 Emissio	ns						
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 Emiss	iona						
Fugitive Dust	10115		_	_	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 Construct	ion						
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	0.00
_		309.32					
Max lbs/day all phases	48.67	307.34	404.49	0.00	12.07	11.90	0.17

*** 2012***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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

ri noaa	14415 Welle			
No.	Туре	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

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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 has been changed from off to on.

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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)

					PM10	PM10	PM10
*** 2013 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2014 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2015 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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

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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)

				PM10	PM10	PM10
ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
66.98	425.35	556.97	0.01	86.41	16.36	70.05
66.98	425.35	556.97	0.01	38.81	16.36	22.45
				PM10	PM10	PM10
ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
66.98	425.35	556.97	0.00	16.62	16.36	0.26
66.98	425.35	556.97	0.00	16.62	16.36	0.26
				PM10	PM10	PM10
ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
257.27	449.78	594.65	0.01	17.57	17.04	0.53
257.27	449.78	594.65	0.01	17.57	17.04	0.53
	66.98 66.98 ROG 66.98 66.98	66.98 425.35 66.98 425.35 ROG NOX 66.98 425.35 66.98 425.35 ROG NOX 257.27 449.78	66.98 425.35 556.97 66.98 425.35 556.97 ROG NOX CO 66.98 425.35 556.97 66.98 425.35 556.97 ROG NOX CO 257.27 449.78 594.65	66.98 425.35 556.97 0.01 66.98 425.35 556.97 0.01 ROG NOX CO SO2 66.98 425.35 556.97 0.00 66.98 425.35 556.97 0.00 ROG NOX CO SO2 257.27 449.78 594.65 0.01	ROG NOx CO SO2 TOTAL 66.98 425.35 556.97 0.01 86.41 66.98 425.35 556.97 0.01 38.81 PM10 ROG NOx CO SO2 TOTAL 66.98 425.35 556.97 0.00 16.62 66.98 425.35 556.97 0.00 16.62 PM10 ROG NOx CO SO2 TOTAL 257.27 449.78 594.65 0.01 17.57	ROG NOx CO SO2 TOTAL EXHAUST 66.98 425.35 556.97 0.01 86.41 16.36 66.98 425.35 556.97 0.01 38.81 16.36 PM10 PM10 PM10 ROG NOx CO SO2 TOTAL EXHAUST 66.98 425.35 556.97 0.00 16.62 16.36 66.98 425.35 556.97 0.00 16.62 16.36 PM10 PM10 ROG NOx CO SO2 TOTAL EXHAUST 257.27 449.78 594.65 0.01 17.57 17.04

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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)

					PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2013***							
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
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 Construct:	ion						
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

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*** 2014***							
Phase 1 - Demolition Emissic	ns						
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 Emiss	sions						
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 Construct	ion						
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 Emissic					0.00		0 00
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 Emiss	sions						
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 Construct	ion						
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		0.01 449.78	0.16 594.65	0.00	0.01 17.57	0.00 17.04	0.01 0.53

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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

011 100	ad 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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMATES MITTGATED (IDS/day)						DM1.0	DM1.0
Q	Dog	170	go.	200	PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2013***							
Phase 1 - Demolition Emissio	ns				0.00		0 00
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 Emiss	ions						
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 Construct	ion						
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	0.40	10.55	0.00	0.27	0.01	0.20
-				0 00			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
*** 0014***							
*** 2014***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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
-	0.77			0.00	0.27	0.01	
Bldg Const Worker Trips		0.48	10.33	0.00	0.4/	0.01	0.26
Arch Coatings Off-Gas	0.00	0 00	0 00	- 0	0 00	- 0.00	- 0
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	- 0.00	- 0.00	_	- 0.00	-	- 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 Emissio	ns						
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 Construct	ion						
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

1441Pillette			
Туре	Horsepower	Load Factor	Hours/Day
Rubber Tired Dozers	352	0.590	8.0
Tractor/Loaders/Backhoes	79	0.465	8.0
	Type Rubber Tired Dozers	Type Horsepower Rubber Tired Dozers 352	Type Horsepower Load Factor Rubber Tired Dozers 352 0.590

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		

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

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)

					PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2013***							
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
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 Construct:	ion						
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

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*** 2014***							
Phase 1 - Demolition Emissic	ns						
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 Emiss	ions						
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
Phago 2 - Puilding Construct	ion						
Phase 3 - Building Construct 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	0.00
Arch Coatings Off-Gas	0.00	0.40	10.55	0.00	0.27	0.01	0.20
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 Emissic	na						
Phase I - Demotition Emission							
Fugitive Dust	_	_	_	_	0 00	_	0 00
Fugitive Dust	_	- 0.00	- 0.00	-	0.00	- 0 00	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Off-Road Diesel On-Road Diesel	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road Diesel On-Road Diesel Worker Trips	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	- 0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00 0.00
Off-Road Diesel On-Road Diesel	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 - 0.00	0.00 0.00 0.00 0.00	- 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00	0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 - 0.00	0.00 0.00 0.00 0.00	- 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00	0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 - - 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 - 0.64	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 424.87 0.30 - 0.30 - 23.19 1.11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 - 0.27 - 0.64 0.03	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 424.87 0.30 - 0.30 - 23.19 1.11 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00 - 0.00 - 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 - 0.27 - 0.64 0.03 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 424.87 0.30 - 0.30 - 23.19 1.11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 - 0.27 - 0.64 0.03	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 424.87 0.30 - 0.30 - 23.19 1.11 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 0.00 0.00 0.00 0.00 0.00 0.00 - 0.00 - 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 - 0.27 - 0.64 0.03 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

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

	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
No.	Туре	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

.a _qa_pciic			
Type	Horsepower	Load Factor	Hours/Day
Graders	174	0.575	8.0
Pavers	132	0.590	8.0
Rollers	114	0.430	8.0
	Type Graders Pavers	Type Horsepower Graders 174 Pavers 132	Type Horsepower Load Factor Graders 174 0.575 Pavers 132 0.590

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMA	IES MITIGA	TED (IDS/O	lay)		DM1.0	DM1.0	DM1.0
Q	Dog	170	go.	200	PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2013***							
Phase 1 - Demolition Emissio	ns				0.00		0 00
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 Emiss	ions						
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 Construct	ion						
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	0.40	10.55	0.00	0.27	0.01	0.20
-				0 00			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
*** 0014***							
*** 2014***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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	0.00
-		0.40		0.00	0.27	0.01	0.20
Arch Coatings Off-Gas	0.00	0 00	0 00	- 0.00	0 00	- 0.00	- 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 Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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

	- 4			
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

011 100	ad Delatement			
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

 ${\tt SubPhase \ Architectural \ Coatings \ Duration: \ 2.7 \ months}$

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

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

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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

CONSTRUCTION EMISSION ESTIMATES							
					PM10	PM10	PM10
*** 2015 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2016 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2017 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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

CONSTRUCTION EMISSION ESTIMATES							
					PM10	PM10	PM10
*** 2015 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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
					PM10	PM10	PM10
*** 2016 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
TOTALS (lbs/day,unmitigated)	68.79	438.70	571.01	0.00	17.18	16.90	0.28
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*** 2017 ***	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
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)

CONSTRUCTION EMISSION ESTIMA	LES ONMITT	GATED (IDS	/day)				
					PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2015***							
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
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 Construct:	ion						
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
					_,0		3.20
Max lbs/day all phases	86.57	561.62	718.97	0.01	120.02	22.44	97.58

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*** 2016***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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***							
	m a						
Phase 1 - Demolition Emissio Fugitive Dust	IIS	_	_		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
Maximum 1957 day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emiss					0.00		0 00
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 Construct	ion						
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

	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
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

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CONSTRUCTION EMISSION ESTIMA	IES MITIGA	TED (IDS/O	.ay)		D141.0	DM1.0	D141.0
Q	Dog	110	90	200	PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2015***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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
114111111111111111111111111111111111111	00.57	301.02	. 10.5.	0.01	33.72	22.11	31.20
Phase 3 - Building Construct							
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
Maximum 1957 day	00.75	130.70	371.01	0.00	17.10	10.50	0.20
Max lbs/day all phases	86.57	561.62	718.97	0.01	53.72	22.44	31.28
*** 2016***							
= * = *							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ions						
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 Construct							
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 Emissio	ns						
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 Emiss	ions						
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 Construct	ion						
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
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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

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

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)

CONSTRUCTION EMISSION ESTIMA	LES ONMITT	GATED (IDS	/day)				
					PM10	PM10	PM10
Source	ROG	NOx	CO	SO2	TOTAL	EXHAUST	DUST
*** 2015***							
Phase 1 - Demolition Emission	ns						
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 Emiss:	ions						
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
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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
					_,0		3.20
Max lbs/day all phases	86.57	561.62	718.97	0.01	120.02	22.44	97.58

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*** 2016***							
Phase 1 - Demolition Emissio	ns						
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 Emiss	ione						
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
Phogo 2 Puilding Construct	ion						
Phase 3 - Building Construct 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	0.00
Arch Coatings Off-Gas	0.00	0.32	7.29	0.00	0.25	0.01	0.20
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	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
101121110111 1227 007	00.75	1301.70	3,1.01	0.00	17.10	10.70	0.20
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28
*** 2017***							
Phase 1 - Demolition Emissio	na						
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		
Worker Trips		0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00					0.00	0.00
Maximum lbs/day Phase 2 - Site Grading Emiss	0.00 0.00 ions	0.00	0.00	0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust	0.00 0.00 ions	0.00	0.00	0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel	0.00 0.00 ions	0.00 0.00 - 0.00	0.00	0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel	0.00 0.00 ions - 0.00 0.00	0.00 0.00 - 0.00 0.00	0.00 0.00 - 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips	0.00 0.00 ions - 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - - 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel	0.00 0.00 ions - 0.00 0.00	0.00 0.00 - 0.00 0.00	0.00 0.00 - 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips	0.00 0.00 ions - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - - 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day	0.00 0.00 ions - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 - - 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct	0.00 0.00 ions - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29	0.00 0.00 0.00 0.00 0.00 0.00 438.38 0.32	0.00 0.00 - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51	0.00 0.00 - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 - 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52 4.00	0.00 0.00 - 0.00 0.00 0.00 0.00 438.38 0.32 - 0.32 - 23.19	0.00 0.00 - 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29 - 33.99	0.00 0.00 - 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 - 0.28
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52 4.00 0.08	0.00 0.00 0.00 0.00 0.00 0.00 0.00 438.38 0.32 - 0.32 - 23.19 1.15	0.00 0.00 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29 - 33.99 0.31	0.00 0.00 	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.29 - 0.29 - 0.64 0.03	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 - 0.28
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52 4.00 0.08 0.01	0.00 0.00 0.00 0.00 0.00 0.00 438.38 0.32 - 0.32 - 23.19 1.15 0.01	0.00 0.00 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29 - 33.99 0.31 0.16	0.00 0.00 0.00 0.00 0.00 0.00 - 0.00 - 0.01 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.29 - 0.29 - 0.64 0.03 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 - 0.28 - 0.00 0.00
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52 4.00 0.08	0.00 0.00 0.00 0.00 0.00 0.00 0.00 438.38 0.32 - 0.32 - 23.19 1.15	0.00 0.00 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29 - 33.99 0.31	0.00 0.00 	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.29 - 0.29 - 0.64 0.03	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 - 0.28
Maximum lbs/day Phase 2 - Site Grading Emiss Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Maximum lbs/day Phase 3 - Building Construct Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips	0.00 0.00 ions - 0.00 0.00 0.00 0.00 ion 68.28 0.51 195.29 0.51 0.52 4.00 0.08 0.01	0.00 0.00 0.00 0.00 0.00 0.00 438.38 0.32 - 0.32 - 23.19 1.15 0.01	0.00 0.00 0.00 0.00 0.00 0.00 563.71 7.29 - 7.29 - 33.99 0.31 0.16	0.00 0.00 0.00 0.00 0.00 0.00 - 0.00 - 0.01 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.29 - 0.29 - 0.64 0.03 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 - 0.28 - 0.00 0.00

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

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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

CONSTRUCTION EMISSION ESTIMATES MITIGATED (IDS/day)							
Q	DOG	170	go.	200	PM10	PM10	PM10
Source	ROG	NOx	CO	S02	TOTAL	EXHAUST	DUST
*** 2015***							
Phase 1 - Demolition Emissio	ns				0.00		0 00
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 Emiss	ions						
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
51 2 5 1111 6							
Phase 3 - Building Construct		400.00					
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 Emissio	ns						
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
Phone 2 Gite Guadina Paire							
Phase 2 - Site Grading Emiss	ions				0.00		0 00
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 Construct	ion						
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
Morr lbg/dov11b	60 70	120 70	E71 01	0 00	17 10	16.00	0.00
Max lbs/day all phases	68.79	438.70	571.01	0.00	17.18	16.90	0.28

*** 2017***							
Phase 1 - Demolition Emissic	ns						
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 Emiss	ions						
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 Construct	ion						
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

Equipment			
Туре	Horsepower	Load Factor	Hours/Day
Rubber Tired Dozers	352	0.590	8.0
Tractor/Loaders/Backhoes	79	0.465	8.0
	Type Rubber Tired Dozers	Type Horsepower Rubber Tired Dozers 352	Type Horsepower Load Factor Rubber Tired Dozers 352 0.590

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

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