



APPENDIX B

Project Construction Emissions

Available on District Website at:

http://www.valleyair.org/notices/public_notices_idx.htm

Or

Upon Request at District Office:

Central Region
1990 E. Gettysburg Ave.
Fresno, CA 93726-0244
(559) 230-6000

Road Construction Emissions Model, Version 6.3.2

Emission Estimates for -> 2972 SIm Gen Site Year 2011										
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	Total PM10 (lbs/day)	Total PM2.5 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Exhaust PM10 (lbs/day)	CO2 (lbs/day)
Grubbing/Land Clearing	5.4	22.4	36.8	2.8	1.8	1.0	1.8	1.6	0.2	3,599.0
Grading/Excavation	6.7	27.9	43.3	3.5	2.5	1.0	2.5	2.3	0.2	4,336.3
Drainage/Utilities/Sub-Grade	8.1	27.3	43.2	3.8	2.8	1.0	2.8	2.6	0.2	5,078.5
Paving	5.9	21.5	35.0	2.3	2.3	-	2.1	2.1	-	3,327.1
Maximum (pounds/day)	8.1	27.9	43.3	3.8	2.8	1.0	2.8	2.6	0.2	5,078.5
Total (tons/construction project)	0.5	2.0	3.2	0.3	0.2	0.1	0.2	0.2	0.0	348.9

Notes: Project Start Year -> 2011

Project Length (months) -> 7

Total Project Area (acres) -> 5

Maximum Area Disturbed/Day (acres) -> 0

Total Soil Imported/Exported (yd³/day)-> 38

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.

Emission Estimates for -> 2972 SIm Gen Site Year 2011										
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM2.5 (kgs/day)	Total PM10 (kgs/day)	Total PM2.5 (kgs/day)	Fugitive Dust PM10 (kgs/day)	Exhaust PM10 (kgs/day)	CO2 (kgs/day)
Grubbing/Land Clearing	2.5	10.2	16.7	1.3	0.8	0.5	0.8	0.7	0.1	1,635.9
Grading/Excavation	3.0	12.7	19.7	1.6	1.1	0.5	1.1	1.0	0.1	1,971.0
Drainage/Utilities/Sub-Grade	3.7	12.4	19.6	1.7	1.3	0.5	1.3	1.2	0.1	2,308.4
Paving	2.7	9.8	15.9	1.0	1.0	-	1.0	1.0	-	1,512.3
Maximum (kilograms/day)	3.7	12.7	19.7	1.7	1.3	0.5	1.3	1.2	0.1	2,308.4
Total (megagrams/construction project)	0.5	1.8	2.9	0.2	0.2	0.1	0.2	0.2	0.0	316.4

Notes: Project Start Year -> 2011

Project Length (months) -> 7

Total Project Area (hectares) -> 2

Maximum Area Disturbed/Day (hectares) -> 0

Total Soil Imported/Exported (meters³/day)-> 29

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.

Road Construction Emissions Model, Version 6.3.2

Emission Estimates for -> 2972 Sim Gen Site Year 2012											
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	CO2 (lbs/day)
Grubbing/Land Clearing	5.0	20.4	34.6	2.6	1.0	1.6	1.0	1.7	1.5	0.2	3,599.2
Grading/Excavation	5.9	26.1	38.5	3.2	1.0	2.2	1.0	2.2	2.0	0.2	4,336.4
Drainage/Utilities/Sub-Grade	7.0	26.0	37.8	3.4	1.0	2.4	1.0	2.4	2.2	0.2	5,078.6
Paving	5.2	19.8	31.5	2.1	-	2.1	-	1.9	1.9	-	3,327.1
Maximum (pounds/day)	7.0	26.1	38.5	3.4	1.0	2.4	1.0	2.4	2.2	0.2	5,078.6
Total (tons/construction project)	0.3	1.1	1.8	0.2	0.1	0.1	0.1	0.1	0.1	0.0	201.0

Notes: Project Start Year -> 2012

- Project Length (months) -> 5
- Total Project Area (acres) -> 3
- Maximum Area Disturbed/Day (acres) -> 0
- Total Soil Imported/Exported (yd³/day) -> 38

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.

Emission Estimates for -> 2972 Sim Gen Site Year 2012											
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM2.5 (kgs/day)	Exhaust PM10 (kgs/day)	Fugitive Dust PM10 (kgs/day)	Total PM2.5 (kgs/day)	Exhaust PM2.5 (kgs/day)	Fugitive Dust PM2.5 (kgs/day)	CO2 (kgs/day)
Grubbing/Land Clearing	2.3	9.3	15.7	1.2	0.5	0.7	0.5	0.8	0.7	0.1	1,636.0
Grading/Excavation	2.7	11.9	17.5	1.5	0.5	1.0	0.5	1.0	0.9	0.1	1,971.1
Drainage/Utilities/Sub-Grade	3.2	11.8	17.2	1.6	0.5	1.1	0.5	1.1	1.0	0.1	2,308.4
Paving	2.4	9.0	14.3	0.9	-	0.9	-	0.9	0.9	-	1,512.3
Maximum (kilograms/day)	3.2	11.9	17.5	1.6	0.5	1.1	0.5	1.1	1.0	0.1	2,308.4
Total (megagrams/construction project)	0.3	1.0	1.6	0.1	0.1	0.1	0.1	0.1	0.1	0.0	182.3

Notes: Project Start Year -> 2012

- Project Length (months) -> 5
- Total Project Area (hectares) -> 1
- Maximum Area Disturbed/Day (hectares) -> 0
- Total Soil Imported/Exported (meters³/day) -> 29

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I. Total PM2.5 emissions shown in Column J are the sum of exhaust and fugitive dust emissions shown in columns K and L.