



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 Stm Gen Site Year 2011 | | | | | | | | | | | | |
|--|---------------|--------------|---------------|----------------------|------------------------|------------------------------|-----------------------|-------------------------|-------------------------------|----------------|--|--|
| Project Phases (English Units) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (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 | 5.4 | 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 (yd ³ /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 Stm Gen Site Year 2011 | | | | | | | | | | | | |
| Project Phases (Metric Units) | ROG (kgs/day) | CO (kgs/day) | NOx (kgs/day) | Total PM10 (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 | 2.5 | 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 (meters ³ /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 Stm Gen Site Year 2012 | | | | | | | | | | | |
|--|---------------|--------------|---------------|----------------------|------------------------|------------------------------|-----------------------|-------------------------|-------------------------------|---------------|--|
| Project Phases (English Units) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (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 | 1.6 | 1.0 | 1.7 | 1.5 | 0.2 | 3,599.2 | |
| Grading/Excavation | 5.9 | 26.1 | 38.5 | 3.2 | 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 | 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 | 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 | 0.0 | 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 (yd ³ /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 Stm Gen Site Year 2012 | | | | | | | | | | | |
| Project Phases (Metric Units) | ROG (kgs/day) | CO (kgs/day) | NOx (kgs/day) | Total PM10 (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 | 0.7 | 0.5 | 0.8 | 0.7 | 0.1 | 1,636.0 | |
| Grading/Excavation | 2.7 | 11.9 | 17.5 | 1.5 | 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 | 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 | 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 | 0.0 | 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 (meters ³ /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. | | | | | | | | | | | |