

APPENDIX D: AIR QUALITY ANALYSIS

Road Construction Emissions Model, Version 5.1

Emission Estimates for -> Franklin Blvd Widening						
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)
Grubbing/Land Clearing	9	46	59	8	3	5
Grading/Excavation	10	50	61	8	3	5
Drainage/Utilities/Sub-Grade	10	52	61	9	4	5
Paving	4	19	30	2	2	0
Maximum (pounds/day)	10	52	61	9	4	5
Total (tons/construction project)	1	4	6	1	0	0

Notes: Project Start Year -> 2005

- Project Length (months) -> 9
- Total Project Area (acres) -> 8
- Maximum Area Disturbed/Day (acres) -> 1
- Total Soil Imported/Exported (yd³/day)-> 0

PM10 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.

Emission Estimates for -> Franklin Blvd Widening

Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	Exhaust PM10 (kgs/day)	Fugitive Dust PM10 (kgs/day)
Grubbing/Land Clearing	4	21	27	4	1	2
Grading/Excavation	4	23	28	4	2	2
Drainage/Utilities/Sub-Grade	4	24	28	4	2	2
Paving	2	9	13	1	1	0
Maximum (kilograms/day)	4	24	28	4	2	2
Total (megagrams/construction project)	1	4	5	1	0	0

<-megagrams

Notes: Project Start Year -> 2005

Project Length (months) -> 9

Total Project Area (hectares) -> 3

Maximum Area Disturbed/Day (hectares) -> 0

Total Soil Imported/Exported (meters³/day)-> 0

PM10 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.