

Appendix D

Construction Emission Estimates using the Road Construction Emissions Model, Version 5.1

Road Construction Emissions Model, Version 5.2									
Emission Estimates for -> Mayhew Drain Closure									
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	3	9	11	1	1	0			
Grading/Excavation	9	38	36	3	2	1			
Drainage/Utilities/Sub-Grade	8	32	31	3	2	1			
Paving	7	25	20	1	1	0			
Maximum (pounds/day)	9	38	36	3	2	1			
Total (tons/construction project)	0.51	1.96	2.23	0.17	0.12	0.06			<-tons
Notes:	Project Start Year -> 2008								
	Project Length (months) -> 6								
	Total Project Area (acres) -> 1								
	Maximum Area Disturbed/Day (acres) -> 0								
	Total Soil Imported/Exported (yd ³ /day)-> 100								
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 -> Mayhew Drain Closure									
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	1	4	5	0	0	0			
Grading/Excavation	4	17	17	1	1	1			
Drainage/Utilities/Sub-Grade	4	15	14	1	1	1			
Paving	3	11	9	1	1	0			
Maximum (kilograms/day)	4	17	17	1	1	1			
Total (megagrams/construction project)	0.47	1.78	2.03	0.16	0.10	0.05			<-megagrams
Notes:	Project Start Year -> 2008								
	Project Length (months) -> 6								
	Total Project Area (hectares) -> 0								
	Maximum Area Disturbed/Day (hectares) -> 0								
	Total Soil Imported/Exported (meters ³ /day)-> 76								
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.									