Appendix 4.3: Calculation of Emission Factors from Vehicle Emission

Year 2007 P.M.					Emission Factor for NO_x in gm/km			NO_x E.F.	Emission Factor for RSP in gm/km			RSP E.F.
					Car	GV	Bus	(0.01g/mile-veh	Car	GV	Bus	(g/mile-veh)
Segment	Total	Number of vehicles			0.64	4.81	7.02		0.03	0.72	0.65	
	Q	Car	GV	Bus	P/C	HGV	FBDD, FBSD		P/C	HGV	FBDD, FBSD	
1	1249	140	0	20	184	4233	576	643.220	9	634	53	0.8961
2		147	880	62								
3	4207	1045	933	45	1490	8610	625	410.247	70	1289	58	0.5418
4		1283	857	44								
5	316	195	113	8	125	544	56	368.963	6	81	5	0.4706
		0	0	0								
6	288	41	239	8	26	1150	56	688.417	1	172	5	0.9975
		0	0	0								
7	523	193	312	18	124	1501	126	538.669	6	225	12	0.7450
		0	0	0								
8	72	17	43	12	11	207	84	676.254	1	31	8	0.8797
		0	0	0								
9	727	175	527	25	112	2535	176	624.765	5	379	16	0.8875
		0	0	0								
10	867	87	747	33	56	3593	232	720.270	3	538	21	1.0430
		0	0	0								
11	19	0	19	0	0	91	0	774.073	0	14	0	1.1587
		0	0	0								
12	307	0	307	0	0	1477	0	774.073	0	221	0	1.1587
		0	0	0								
13	799	192	570	37	123	2742	260	629.283	6	410	24	0.8866
		0	0	0								
14	214	79	125	10	51	601	70	542.958	2	90	7	0.7435
		0	0	0								
15	551	347	186	18	222	895	126	363.071	10	134	12	0.4557
		0	0	0								
16	917	191	693	33	122	3333	232	647.095	6	499	21	0.9234
		0	0	0								
17	932	286	308	15	294	2145	183	452.776	14	321	17	0.6075
18		174	138	11								
19	784	411	97	23	342	938	379	340.628	16	140	35	0.3932
20		124	98	31								
21	772	426	125	10	351	1000	112	305.083	16	150	10	0.3681
22		122	83	6								
23	205	130	75	0	83	361	0	348.512	4	54	0	0.4545
		0	0	0								
24	155	26	129	0	17	620	0	662.119	1	93	0	0.9734
		0	0	0								
25	593	73	35	0	260	876	28	316.241	12	131	3	0.3864
26		333	147	4								
27	595	37	32	0	300	590	28	248.236	14	88	3	0.2839
28		431	90	4								
29	626	37	32	0	308	679	28	260.778	14	102	3	0.3049
30		444	109	4								
31	708	374	185	4	300	1132	28	331.892	14	169	3	0.4231
32		94	50	0								
33	1622	377	352	15	590	3223	211	399.188	28	482	20	0.5254
34		545	318	15								
35	6176	1392	1620	63	1834	15248	983	470.719	86	2282	91	0.6408
36		1474	1550	77								
37	5442	1220	1460	70	1644	13223	870	485.382	77	1979	81	0.6319
38		1349	1289	54								
39	501	0	501	0	0	2410	0	774.073	0	361	0	1.1587
		0	0	0								
40	327	0	327	0	0	1573	0	774.073	0	235	0	1.1587
		0	0	0								
41	828	0	828	0	0	3983	0	774.073	0	596	0	1.1587
		0	0	0								
42	627	163	94	10	248	1077	112	368.943	12	161	10	0.4704
43		224	130	6								
44	376	318	58	0	204	280	0	205.682	10	42	0	0.2198
		0	0	0								
45	367	320	47	0	205	227	0	189.141	10	34	0	0.1908
		0	0	0								
46	108	22	20	0	34	245	28	457.663	2	37	3	0.6091
47		31	31	4								
48	542	23	26	0	263	628	0	264.675	12	94	0	0.3158
49		388	194	0								
50	378	91	64	0	147	714	0	366.242	7	107	0	0.4839
51		139	84	0								
52	664	74	40	0	330	709	0	252.089	15	106	0	0.2950
53		442	107	0								
54	259	71	80	0	78	659	0	457.707	4	99	0	0.6352
55		51	57	0								
56	155	39	50	0	44	419	0	479.931	2	63	0	0.6720
57		29	37	0								
58	106	23	20	0	35	245	0	425.492	2	37	0	0.5819
59		32	31	0								
60	220	51	58	0	66	564	0	460.372	3	84	0	0.6396
61		52	59	0								
62	52	9	12	0	14	141	0	481.911	1	21	0	0.6753
63		13	17	0								
64	118	33	34	0	38	283	0	437.082	2	42	0	0.6011
65		26	25	0								
66	130	29	24	0	45	287	0	411.189	2	43	0	0.5982
67		41	36	0								
68	254	39	59	0	62	756	0	517.686	3	113	0	0.7345
69		58	98	0								