

Appendix 3.15 Predicted Cumulative Daily and Annual Average RSP concentrations in ug/m³ at Various Assessment Height Levels

Air Sensitive Receiver (ASR)	Description of ASR	X	Y	Z	Assessment Height (mAG)	Assessment Height (mPD)	(1) Sludge Treatment Facility		(2) Green Island Cement Plant		(3) Eco Park		(4) Shui Wing Steel Mill		(5) Industrial Chimney		(6) Marine Emission		(7) WENT Landfill		(8) Road Traffic Emission (Model by CALINE4)		(9) Adjusted Concentrations contributed from BPPS & CPPS		Total Cumulative RSP 24hr ug/m³
							RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³	RSP	24hr ug/m³			
Near Field	A1	814687	834439	10	1.5	11.5	0.02	2.36	0.01	0.05	0.01	0.22	0.05	0.01	0.05	0.01	0.12	0.05	0.05	0.12	0.12	0.12	3.9	69	
Near Field	A2	811729	831942	5	1.5	6.5	0.02	2.35	0.01	0.05	0.01	0.23	0.05	0.01	0.05	0.01	0.12	0.05	0.05	0.12	0.12	0.12	3.9	69	
Near Field	A3	811868	831840	5	1.5	6.5	0.02	2.16	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.10	0.14	0.14	0.48	0.48	0.48	3.9	70	
Near Field	A4	811841	831983	5	1.5	6.5	0.02	2.16	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.10	0.14	0.14	0.48	0.48	0.48	3.9	70	
Near Field	A5	812330	832043	5	1.5	6.5	0.02	2.14	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.09	0.14	0.14	0.48	0.48	0.48	3.9	70	
Near Field	A6	808714	830229	5	1.5	6.5	0.02	1.40	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.01	0.10	0.10	0.40	0.40	0.40	3.9	68	
Near Field	A7	810598	831140	10	1.5	11.5	0.01	1.37	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.01	0.10	0.10	0.40	0.40	0.40	3.9	68	
Near Field	A8	809560	829200	10	1.5	11.5	0.01	2.86	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	69	
Near Field	A9	814016	834319	10	1.5	11.5	0.01	2.85	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	69	
Near Field	A10	812330	835168	10	1.5	11.5	0.01	2.80	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	69	
Near Field	A11	809960	828080	10	1.5	11.5	0.01	2.80	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	69	
Near Field	A12	814227	829748	10	1.5	11.5	0.01	2.80	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	75	
Near Field	A13	813847	828092	150	1.5	151.5	0.01	8.53	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.02	0.06	0.06	0.32	0.32	0.32	3.9	75	
Near Field	A14	814315	826509	15	1.5	151.5	0.01	8.41	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.02	0.06	0.06	0.32	0.32	0.32	3.9	75	
Near Field	A15	813700	826060	10	1.5	11.5	0.01	13.12	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A16	813545	826834	90	1.5	91.5	0.01	13.09	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A17	811445	825758	40	1.5	41.5	0.01	13.09	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A18	810341	825957	6	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A19	810006	826363	7	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A20	810701	825633	7	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A21	810011	827450	6	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A23	810481	825758	7	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A24	815544	827262	6	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A25	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A26	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A27	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A28	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A29	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A30	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A31	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A32	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A33	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A34	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A35	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A36	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A37	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A38	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A39	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A40	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A41	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A42	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A43	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A44	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A45	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A46	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A47	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A48	815580	827667	5	1.5	16.5	0.01	12.97	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.32	0.32	0.32	3.9	82	
Near Field	A49	815580	827667	5	1.5	16.5																			

Appendix 3.15 Predicted Cumulative Daily and Annual Average RSP concentrations in ug/m³ at Various Assessment Height Levels

Air Sensitive Receiver (ASR)	Description of ASR	X	Y	Z	Assessment Height (mAG)	Assessment Height (mPD)	(1) Sludge Treatment Facility		(2) Green Island Cement Plant		(3) Eco Park		(4) Shui Wing Steel Mill		(5) Industrial Chimney		(6) Marine Emission		(7) WENT Landfill		(8) Road Traffic Emission (Model by CALINE4)		(9) Adjusted Concentrations contributed by BPPS & CPPS		Total Cumulative					
							RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³	RSP	24hr ug/m ³
Far Field	A26	815150	827627	4.5	1.5	6.0	0.00	0.00	9.78	0.04	0.04	0.58	0.02	0.02	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.12	2.7	2.7	75	75				
					5.0	9.5	0.00	0.00	9.75	0.04	0.04	0.57	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.12	2.7	2.7	75	75			
					10.0	14.5	0.00	0.00	9.65	0.04	0.04	0.57	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	0.12	2.7	2.7	75	75			
					20.0	24.5	0.00	0.00	9.26	0.04	0.04	0.56	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.08	2.6	2.6	71	71			
					40.0	44.5	0.00	0.00	7.73	0.03	0.03	0.59	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.04	2.6	2.6	69	69			
					60.0	64.5	0.00	0.00	5.62	0.03	0.03	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.04	2.6	2.6	69	69			
					80.0	84.5	0.01	0.01	3.61	0.04	0.04	1.25	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.01	0.08	2.7	2.7	67	67	
					100.0	104.5	0.01	0.01	3.07	0.04	0.04	2.96	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.08	2.7	2.7	67	67
Far Field	A27	815619	828192	6	1.5	7.5	0.01	0.01	1.81	0.04	0.04	0.52	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	66	66			
					5.0	11.0	0.01	0.01	1.81	0.04	0.04	0.52	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	66	66		
					10.0	16.0	0.01	0.01	1.80	0.04	0.04	0.52	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	66	66		
					20.0	26.0	0.01	0.01	1.77	0.04	0.04	0.51	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	67	67	
					40.0	46.0	0.01	0.01	1.65	0.04	0.04	0.51	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	67	67	
					60.0	66.0	0.01	0.01	1.49	0.03	0.03	0.51	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	67	67	
					80.0	86.0	0.01	0.01	1.33	0.03	0.03	0.51	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	67	67	
					100.0	106.0	0.01	0.01	1.21	0.03	0.03	0.50	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	66	66	
Far Field	A28	815386	828679	5.5	1.5	7.0	0.00	0.00	1.14	0.02	0.02	0.47	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.04	2.6	2.6	66	66			
					5.0	10.5	0.00	0.00	14.14	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.6	2.6	80	80	
					10.0	15.5	0.00	0.00	13.95	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	80	80
					20.0	25.5	0.00	0.00	13.23	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	79	79
					40.0	45.0	0.00	0.00	10.88	0.00	0.00	1.03	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.6	2.6	77	77
					60.0	65.0	0.00	0.00	7.48	0.00	0.00	1.24	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	73	73
					80.0	85.0	0.00	0.00	4.50	0.00	0.00	1.65	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	70	70
					100.0	105.0	0.00	0.00	2.74	0.00	0.00	2.17	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	68	68
Far Field	A30	815209	829004	17	1.5	18.5	0.00	0.00	3.49	0.00	0.00	0.05	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	68	68		
					5.0	22.0	0.00	0.00	3.48	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	66	66	
					10.0	27.0	0.00	0.00	3.44	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	68	68	
					20.0	37.0	0.00	0.00	3.27	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.7	2.7	68	68	
					40.0	57.0	0.00	0.00	2.69	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.7	2.7	67	67	
					60.0	77.0	0.00	0.00	1.96	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	2.6	2.6	67	67	
					80.0	97.0	0.00	0.00	0.37	0.00	0.00	0.14	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	67	67
					100.0	117.0	0.02	0.02	0.63	0.05	0.05	0.20	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	66	66
Far Field	A31	815449	829334	6.5	1.5	8.0	0.01	0.01	0.78	0.03	0.03	0.24	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	66	66			
					5.0	11.5	0.01	0.01	0.87	0.03	0.03	0.38	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.7	2.7	66	66	
					10.0	16.5	0.01	0.01	0.87	0.03	0.03	0.38	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.7	2.7	66	66	
					20.0	26.5	0.01	0.01	0.86	0.03	0.03	0.37	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.7	2.7	66	66	
					40.0	46.5	0.01	0.01	0.83	0.03	0.03	0.36	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.7	2.7	66	66	
					60.0	66.5	0.01	0.01	0.79	0.03	0.03	0.34	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	66	66	
					80.0	86.5	0.00	0.00	0.41	0.03	0.03	0.24	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	66	66	
					100.0	106.5	0.00	0.00	0.39	0.03	0.03	0.22	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	2.6	2.6	66	66	
Far Field	A32	813977	826276	6	1.5	7.5	0.00	0.00	13.25	0.09	0.09	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	2.7	2.7	81	81			
					5.0	11.0	0.00	0.00	13.18	0.09	0.09	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	2.7	2.7	81	81		
					10.0	16.0	0.00	0.00	12.84	0.09	0.09	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	2.7	2.7	81	81		
					20.0	26.0	0.00	0.00	12.02	0.09	0.09	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	2.7	2.7	80	80		
					40.0	46.0	0.00	0.00	8.78	0.08	0.08	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	2.7	2.7	77	77		
					60.0	66.0	0.00	0.00	5.03	0.08	0.08	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	2.6	2.6	73	73		