

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

					NO2																		
					19th Highest Hourly Averaged (µg/m ³)																		
					Receptor Height (in mAG)																		
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130	
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	124.22	121.48	115.90	111.03	110.02	108.33	106.92	104.83	104.09	102.98	102.30	101.92	101.72	-	-	-	-	
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	112.41	112.13	111.26	110.40	109.94	108.39	106.71	104.23	102.81	102.08	101.76	101.31	100.81	-	-	-	-	
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	113.40	111.41	111.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	116.13	115.60	113.97	111.17	110.61	-	-	-	-	-	-	-	-	-	-	-	-	
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	112.38	111.77	111.49	110.07	108.89	107.35	106.15	-	-	-	-	-	-	-	-	-	-	
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	111.58	108.99	108.85	107.96	106.05	104.64	103.11	102.47	101.90	101.66	101.57	101.54	101.54	101.10	-	-	-	
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	108.75	108.73	108.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	111.29	111.20	110.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	119.41	117.87	114.49	111.28	108.70	106.01	103.66	-	-	-	-	-	-	-	-	-	-	
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	107.84	103.25	97.31	96.54	95.29	94.05	93.66	90.51	-	-	-	-	-	-	-	-	-	
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	104.79	102.32	99.33	96.26	94.68	94.28	93.89	90.82	90.81	-	-	-	-	-	-	-	-	
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	108.17	105.59	97.91	95.81	94.66	-	-	-	-	-	-	-	-	-	-	-	-	
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	112.10	104.41	98.37	95.76	95.74	-	-	-	-	-	-	-	-	-	-	-	-	
A14	8 Royal Green	831237	839565	35.52	11.0	108.77	105.03	97.42	95.25	93.67	92.65	92.25	89.29	88.22	87.11	93.58	86.52	86.51	86.51	86.86	92.87	105.48	
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	115.74	113.41	109.82	109.46	108.97	108.15	107.82	105.13	102.68	102.70	118.98	103.73	-	-	-	-	-	
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	104.60	103.45	98.02	93.85	93.79	92.77	92.47	-	-	-	-	-	-	-	-	-	-	
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	119.39	119.31	116.99	112.54	111.24	109.42	108.18	-	-	-	-	-	-	-	-	-	-	
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	116.71	115.50	112.41	111.95	110.66	109.46	109.45	105.29	103.18	102.81	-	-	-	-	-	-	-	
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	115.91	115.67	113.64	111.26	109.85	108.46	105.18	103.12	101.72	100.75	100.53	100.48	-	-	-	-	-	
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	118.57	116.64	114.19	113.33	111.35	110.84	109.10	106.48	103.75	102.23	102.03	101.93	101.87	-	-	-	-	
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	113.44	111.55	110.75	109.98	109.46	108.17	107.89	106.54	102.85	102.69	-	-	-	-	-	-	-	
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	118.22	115.54	113.48	111.32	110.21	108.57	-	-	-	-	-	-	-	-	-	-	-	
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	105.93	104.49	101.77	98.49	95.97	94.83	93.76	92.92	-	-	-	-	-	-	-	-	-	
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	107.59	102.52	96.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A25	North District Park	831775	839887	36.53	11.0	116.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A26	Po Wing Road Playground	831459	839720	36.53	11.0	117.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	114.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	114.49	114.20	113.53	112.69	110.73	-	-	-	-	-	-	-	-	-	-	-	-	
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	110.06	108.40	102.89	95.00	93.43	93.29	92.24	89.88	87.91	87.38	90.59	86.51	86.51	86.53	86.83	92.20	108.59	
A30	North District Park – Stand	831636	840021	36.53	10.0	112.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	118.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AQO Standard						200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

					NO2																	
					Annual Averaged (µg/m ³)																	
					Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	30.54	28.02	24.29	22.05	20.56	19.39	18.44	16.99	16.01	15.36	14.93	14.63	14.45	-	-	-	-
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	25.26	23.42	21.78	20.56	19.47	18.50	17.65	16.36	15.50	14.94	14.57	14.33	14.18	-	-	-	-
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	26.03	25.26	23.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	28.87	28.13	26.55	24.52	22.55	-	-	-	-	-	-	-	-	-	-	-	-
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	23.31	22.71	21.59	20.33	19.15	18.13	17.28	-	-	-	-	-	-	-	-	-	-
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	23.62	22.58	20.91	19.44	18.27	17.36	16.65	15.67	15.04	14.62	14.35	14.17	14.07	14.03	-	-	-
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	20.63	20.17	19.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	20.97	20.35	19.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	27.12	26.46	25.33	23.35	21.32	19.56	18.18	-	-	-	-	-	-	-	-	-	-
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	25.19	22.05	19.48	17.91	16.84	16.02	15.36	14.41	-	-	-	-	-	-	-	-	-
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	22.30	21.01	19.31	17.93	16.89	16.05	15.37	14.36	13.71	-	-	-	-	-	-	-	-
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	23.04	20.87	18.78	17.50	16.57	-	-	-	-	-	-	-	-	-	-	-	-
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	22.34	20.29	18.44	17.25	16.38	-	-	-	-	-	-	-	-	-	-	-	-
A14	8 Royal Green	831237	839565	35.52	11.0	24.01	21.92	18.96	17.16	16.01	15.19	14.55	13.60	12.95	12.54	12.49	12.11	11.80	11.70	11.65	11.76	11.95
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	28.80	26.36	23.78	22.05	20.76	19.72	18.83	17.41	16.41	15.82	16.40	15.24	-	-	-	-	-
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	23.62	22.05	19.78	17.93	16.59	15.59	14.82	-	-	-	-	-	-	-	-	-	-
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	29.52	29.41	27.91	25.08	22.55	20.69	19.32	-	-	-	-	-	-	-	-	-	-
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	28.48	27.09	24.86	22.81	21.07	19.65	18.54	16.99	16.04	15.53	-	-	-	-	-	-	-
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	29.64	28.94	27.58	25.31	22.91	20.82	19.17	17.00	15.80	15.12	14.70	14.40	-	-	-	-	-
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	25.02	24.37	22.80	21.07	19.59	18.44	17.57	16.37	15.63	15.20	14.96	14.68	14.39	-	-	-	-
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	26.67	25.65	24.27	22.89	21.56	20.34	19.25	17.52	16.34	15.66	-	-	-	-	-	-	-
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	29.64	28.84	27.27	25.06	22.86	20.93	-	-	-	-	-	-	-	-	-	-	-
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	22.25	21.48	20.46	18.97	17.52	16.35	15.47	14.31	-	-	-	-	-	-	-	-	-
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	22.61	20.15	18.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A25	North District Park	831775	839887	36.53	11.0	22.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A26	Po Wing Road Playground	831459	839720	36.53	11.0	29.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	26.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	25.24	24.74	23.77	22.50	21.19	-	-	-	-	-	-	-	-	-	-	-	-
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	21.22	20.00	18.11	16.57	15.51	14.75	14.17	13.31	12.72	12.37	12.28	11.93	11.68	11.59	11.56	11.72	11.88
A30	North District Park – Stand	831636	840021	36.53	10.0	25.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	31.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

		RSP																				
		10th Highest Daily Averaged ($\mu\text{g}/\text{m}^3$)																				
		Receptor Height (in mAG)																				
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	66.58	66.57	66.54	66.52	66.48	66.45	66.43	66.39	66.36	66.34	66.33	66.32	66.31	-	-	-	-
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	66.68	66.65	66.58	66.52	66.47	66.43	66.40	66.36	66.34	66.32	66.32	66.31	66.31	-	-	-	-
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	66.61	66.60	66.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	67.03	66.97	66.84	66.71	66.60	-	-	-	-	-	-	-	-	-	-	-	-
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	66.59	66.58	66.54	66.50	66.46	66.43	66.40	-	-	-	-	-	-	-	-	-	-
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	66.44	66.43	66.41	66.39	66.37	66.36	66.34	66.32	66.31	66.31	66.30	66.30	66.30	66.30	-	-	-
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	66.64	66.61	66.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	66.54	66.53	66.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	67.54	67.50	67.44	67.26	67.06	66.87	66.73	-	-	-	-	-	-	-	-	-	-
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	65.80	65.72	65.63	65.51	65.40	65.30	65.22	65.09	-	-	-	-	-	-	-	-	-
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	65.64	65.59	65.52	65.43	65.34	65.25	65.17	65.04	64.96	-	-	-	-	-	-	-	-
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	66.07	65.77	65.54	65.44	65.35	-	-	-	-	-	-	-	-	-	-	-	-
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	66.30	65.94	65.64	65.48	65.38	-	-	-	-	-	-	-	-	-	-	-	-
A14	8 Royal Green	831237	839565	35.52	11.0	65.78	65.71	65.58	65.47	65.38	65.30	65.24	65.13	65.05	64.99	64.94	64.91	64.89	64.88	64.87	64.86	64.85
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	66.70	66.55	66.40	66.31	66.23	66.15	66.09	65.98	65.91	65.86	65.82	65.80	-	-	-	-	-
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	65.62	65.59	65.54	65.47	65.39	65.31	65.23	-	-	-	-	-	-	-	-	-	-
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	66.17	66.15	66.12	66.07	66.01	65.97	65.92	-	-	-	-	-	-	-	-	-	-
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	66.38	66.32	66.21	66.09	65.99	65.92	65.88	65.82	65.78	65.76	-	-	-	-	-	-	-
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	67.38	67.34	67.26	67.09	66.90	66.75	66.63	66.49	66.42	66.38	66.36	66.34	-	-	-	-	-
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	66.01	66.00	65.97	65.93	65.89	65.85	65.82	65.78	65.75	65.74	65.73	65.73	-	-	-	-	-
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	66.52	66.47	66.40	66.32	66.24	66.16	66.08	65.96	65.88	65.83	-	-	-	-	-	-	-
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	67.05	66.99	66.85	66.71	66.60	66.52	-	-	-	-	-	-	-	-	-	-	-
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	65.60	65.57	65.52	65.38	65.24	65.13	65.06	64.97	-	-	-	-	-	-	-	-	-
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	65.99	65.68	65.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A25	North District Park	831775	839887	36.53	11.0	66.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A26	Po Wing Road Playground	831459	839720	36.53	11.0	67.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	67.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	66.49	66.47	66.42	66.35	66.28	-	-	-	-	-	-	-	-	-	-	-	-
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	66.02	65.87	65.66	65.50	65.38	65.29	65.22	65.10	65.02	64.97	64.93	64.90	64.88	64.87	64.86	64.85	64.85
A30	North District Park – Stand	831636	840021	36.53	10.0	66.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	66.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

					RSP																	
					Annual Averaged ($\mu\text{g}/\text{m}^3$)																	
					Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	28.04	27.93	27.76	27.67	27.61	27.56	27.52	27.46	27.42	27.40	27.38	27.37	27.37	-	-	-	-
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	27.77	27.70	27.64	27.60	27.55	27.51	27.48	27.43	27.39	27.37	27.36	27.35	27.35	-	-	-	-
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	27.85	27.81	27.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	27.98	27.94	27.87	27.78	27.70	-	-	-	-	-	-	-	-	-	-	-	-
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	27.71	27.69	27.64	27.59	27.54	27.50	27.46	27.43	27.40	27.37	27.36	27.34	27.34	27.35	-	-	-
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	27.70	27.66	27.59	27.54	27.49	27.46	27.43	27.40	27.37	27.36	27.35	27.34	27.34	27.35	-	-	-
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	27.61	27.59	27.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	27.61	27.58	27.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	27.88	27.85	27.80	27.72	27.63	27.56	27.50	-	-	-	-	-	-	-	-	-	-
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	27.04	26.89	26.78	26.71	26.67	26.63	26.60	26.56	-	-	-	-	-	-	-	-	-
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	26.90	26.85	26.77	26.71	26.67	26.63	26.60	26.56	26.53	-	-	-	-	-	-	-	-
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	26.95	26.85	26.75	26.70	26.65	-	-	-	-	-	-	-	-	-	-	-	-
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	26.91	26.82	26.73	26.68	26.65	-	-	-	-	-	-	-	-	-	-	-	-
A14	8 Royal Green	831237	839565	35.52	11.0	27.04	26.96	26.86	26.79	26.75	26.72	26.69	26.65	26.62	26.61	26.61	26.59	26.57	26.58	26.59	26.57	26.64
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	27.84	27.73	27.63	27.57	27.51	27.47	27.43	27.37	27.33	27.31	27.37	27.29	-	-	-	-	-
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	27.06	27.00	26.90	26.83	26.77	26.73	26.70	-	-	-	-	-	-	-	-	-	-
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	27.89	27.88	27.82	27.70	27.59	27.51	27.46	-	-	-	-	-	-	-	-	-	-
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	27.84	27.78	27.69	27.60	27.53	27.47	27.42	27.36	27.32	27.30	-	-	-	-	-	-	-
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	27.99	27.96	27.91	27.81	27.71	27.62	27.55	27.46	27.41	27.38	27.36	27.35	-	-	-	-	-
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	27.65	27.63	27.57	27.51	27.45	27.41	27.38	27.33	27.30	27.28	27.28	27.26	27.25	-	-	-	-
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	27.76	27.72	27.66	27.60	27.55	27.50	27.45	27.38	27.33	27.30	-	-	-	-	-	-	-
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	28.01	27.97	27.90	27.80	27.71	27.62	-	-	-	-	-	-	-	-	-	-	-
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	26.88	26.85	26.81	26.75	26.69	26.64	26.61	26.56	-	-	-	-	-	-	-	-	-
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	26.93	26.82	26.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A25	North District Park	831775	839887	36.53	11.0	27.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A26	Po Wing Road Playground	831459	839720	36.53	11.0	27.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	27.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	27.70	27.68	27.64	27.58	27.53	-	-	-	-	-	-	-	-	-	-	-	-
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	26.95	26.90	26.83	26.77	26.73	26.70	26.67	26.64	26.61	26.60	26.60	26.58	26.55	26.57	26.58	26.62	26.65
A30	North District Park – Stand	831636	840021	36.53	10.0	27.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	28.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

		FSP																				
		19th Highest Daily Averaged (µg/m ³)																				
		Receptor Height (in mAG)																				
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	36.42	36.40	36.35	36.31	36.28	36.25	36.22	36.18	36.15	36.13	36.11	36.10	36.09	-	-	-	-
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	36.45	36.40	36.34	36.29	36.25	36.22	36.19	36.14	36.12	36.10	36.09	36.08	36.08	-	-	-	-
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	36.42	36.40	36.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	36.78	36.73	36.62	36.51	36.41	-	-	-	-	-	-	-	-	-	-	-	-
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	36.37	36.36	36.32	36.27	36.23	36.19	36.17	-	-	-	-	-	-	-	-	-	-
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	36.30	36.28	36.24	36.20	36.17	36.14	36.12	36.09	36.08	36.07	36.07	36.07	36.07	36.07	-	-	-
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	36.39	36.36	36.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	36.19	36.18	36.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	36.68	36.65	36.61	36.51	36.41	36.32	36.25	-	-	-	-	-	-	-	-	-	-
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	35.53	35.44	35.35	35.28	35.23	35.18	35.14	35.09	-	-	-	-	-	-	-	-	-
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	35.40	35.36	35.31	35.25	35.20	35.15	35.12	35.07	35.04	-	-	-	-	-	-	-	-
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	35.61	35.46	35.33	35.25	35.20	-	-	-	-	-	-	-	-	-	-	-	-
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	35.60	35.48	35.36	35.29	35.23	-	-	-	-	-	-	-	-	-	-	-	-
A14	8 Royal Green	831237	839565	35.52	11.0	36.03	35.92	35.78	35.69	35.63	35.58	35.54	35.48	35.44	35.42	35.40	35.39	35.39	35.38	35.38	35.38	35.38
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	35.94	35.81	35.70	35.62	35.56	35.49	35.44	35.35	35.28	35.24	35.21	35.19	-	-	-	-	-
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	35.86	35.82	35.76	35.69	35.62	35.57	35.53	-	-	-	-	-	-	-	-	-	-
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	35.66	35.65	35.61	35.53	35.46	35.39	35.34	-	-	-	-	-	-	-	-	-	-
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	35.71	35.67	35.58	35.48	35.40	35.34	35.30	35.24	35.21	35.19	-	-	-	-	-	-	-
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	37.03	37.00	36.92	36.77	36.61	36.48	36.37	36.24	36.17	36.13	36.11	36.10	-	-	-	-	-
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	35.44	35.43	35.40	35.36	35.33	35.29	35.27	35.22	35.20	35.18	35.16	35.15	35.15	-	-	-	-
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	35.80	35.76	35.70	35.64	35.58	35.51	35.45	35.34	35.27	35.22	-	-	-	-	-	-	-
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	36.90	36.84	36.70	36.56	36.44	36.35	-	-	-	-	-	-	-	-	-	-	-
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	35.39	35.38	35.34	35.26	35.19	35.14	35.10	35.06	-	-	-	-	-	-	-	-	-
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	35.55	35.39	35.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A25	North District Park	831775	839887	36.53	11.0	36.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A26	Po Wing Road Playground	831459	839720	36.53	11.0	36.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	36.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	35.73	35.71	35.67	35.61	35.54	-	-	-	-	-	-	-	-	-	-	-	-
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	35.83	35.78	35.70	35.63	35.58	35.54	35.50	35.46	35.42	35.40	35.39	35.39	35.38	35.38	35.38	35.38	35.37
A30	North District Park – Stand	831636	840021	36.53	10.0	36.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	36.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50

Appendix 3.9 – Predicted Cumulative Pollutant Concentrations at Identified Representative ASRs during Project Operation (With Project Operation, Without Direct Noise Remedies Scenario)

					FSP																	
					Annual Averaged ($\mu\text{g}/\text{m}^3$)																	
					Receptor Height (in mAG)																	
ASR ID	ASR Description	X	Y	PATH Grid	Base mPD	1.5	5	10	15	20	25	30	40	50	60	70	80	90	100	110	120	130
A01	Sheung Shui Centre, Block 2	831373	840137	36.53	9.0	16.10	15.99	15.85	15.76	15.70	15.66	15.62	15.57	15.53	15.51	15.49	15.48	15.48	-	-	-	-
A02	Sheung Shui Town Centre, New York Court	831627	840111	36.53	10.0	15.85	15.79	15.73	15.69	15.65	15.61	15.58	15.54	15.50	15.48	15.47	15.47	15.46	-	-	-	-
A03	Village House No.50, So Kwun Po	831534	840038	36.53	10.0	15.92	15.89	15.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A04	Tung Wa Group of Hospitals Kap Yan Directors' College	831422	839954	36.53	10.0	16.04	16.01	15.95	15.86	15.78	-	-	-	-	-	-	-	-	-	-	-	-
A05	Tung Wa Group of Hospitals Hong Kong & Kowloon Electrical Appliances Merchants Association Ltd. School	831682	840050	36.53	12.0	15.80	15.77	15.73	15.68	15.64	15.60	15.57	-	-	-	-	-	-	-	-	-	-
A06	Tin Ping Estate, Tin Mei House	831856	840190	36.53	11.0	15.78	15.75	15.69	15.64	15.60	15.57	15.54	15.51	15.48	15.47	15.46	15.46	15.46	15.46	-	-	-
A07	Fan Leng Pak Wai, House 707	831958	839931	36.53	12.0	15.70	15.68	15.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A08	Fan Leng Pak Wai, House 801	831830	839706	36.53	11.0	15.70	15.68	15.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A09	S.K.H. Wing Chun Primary School	831567	839674	36.53	11.0	15.95	15.92	15.88	15.81	15.73	15.66	15.60	-	-	-	-	-	-	-	-	-	-
A10	Vienna Garden, Block 1	831470	839576	36.52	13.0	15.37	15.24	15.14	15.07	15.03	15.00	14.97	14.94	-	-	-	-	-	-	-	-	-
A11	Cheerful Park, Block 2	831618	839562	36.52	12.0	15.25	15.20	15.13	15.07	15.03	15.00	14.97	14.94	14.91	-	-	-	-	-	-	-	-
A12	Glamour Garden, Block 7	831587	839518	36.52	11.0	15.29	15.20	15.11	15.06	15.02	-	-	-	-	-	-	-	-	-	-	-	-
A13	Eden Garden, Block 1	831424	839541	36.52	13.0	15.26	15.17	15.09	15.05	15.01	-	-	-	-	-	-	-	-	-	-	-	-
A14	8 Royal Green	831237	839565	35.52	11.0	15.52	15.45	15.36	15.30	15.26	15.23	15.20	15.17	15.14	15.12	15.13	15.11	15.09	15.10	15.09	15.09	15.16
A15	Tai Ping Estate, Ping Yee House	831122	839756	35.53	12.0	15.96	15.86	15.77	15.71	15.66	15.62	15.58	15.53	15.49	15.47	15.53	15.46	-	-	-	-	-
A16	Sheung Shui Government Secondary School	831347	839627	35.52	12.0	15.54	15.48	15.40	15.33	15.28	15.24	15.21	-	-	-	-	-	-	-	-	-	-
A17	Buddhist Chan Shi Wan Primary School	831247	839955	35.53	10.0	16.00	16.00	15.94	15.83	15.73	15.66	15.61	-	-	-	-	-	-	-	-	-	-
A18	Yuk Po Court, Chun Wu House	831273	840084	35.53	10.0	15.96	15.90	15.82	15.74	15.67	15.62	15.58	15.52	15.48	15.47	-	-	-	-	-	-	-
A19	Sheung Shui Disciplined Services Quarters, Block B	831416	839783	36.53	12.0	16.06	16.03	15.98	15.89	15.79	15.71	15.65	15.56	15.52	15.49	15.48	15.47	-	-	-	-	-
A20	Metropolis Plaza, Block 3	831351	840234	35.53	9.0	15.79	15.77	15.71	15.65	15.60	15.56	15.53	15.49	15.46	15.45	15.44	15.43	15.42	-	-	-	-
A21	Venice Garden, Block 1	831223	839778	35.53	11.0	15.89	15.85	15.79	15.74	15.69	15.64	15.60	15.53	15.49	15.46	-	-	-	-	-	-	-
A22	Tung Wa Group of Hospitals Ma Kam Chan Memorial Primary School	831469	839917	36.53	10.0	16.07	16.04	15.97	15.88	15.79	15.72	-	-	-	-	-	-	-	-	-	-	-
A23	Greenpark Villa, Block 1	831728	839601	36.52	12.0	15.23	15.20	15.17	15.11	15.05	15.01	14.98	14.93	-	-	-	-	-	-	-	-	-
A24	Camellia Court, Block 10	831691	839476	36.52	11.0	15.28	15.17	15.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A25	North District Park	831775	839887	36.53	11.0	15.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A26	Po Wing Road Playground	831459	839720	36.53	11.0	16.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A27	Kat Cheung Street Garden	831615	839667	36.53	11.0	15.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A28	Po Wing Road Sports Centre	831316	839703	35.53	11.0	15.83	15.81	15.77	15.72	15.67	-	-	-	-	-	-	-	-	-	-	-	-
A29	Ching Ho Estate - Phase 4	831337	839536	35.52	13.0	15.44	15.39	15.33	15.27	15.23	15.21	15.18	15.15	15.13	15.12	15.12	15.10	15.07	15.09	15.10	15.14	15.17
A30	North District Park – Stand	831636	840021	36.53	10.0	15.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A31	North District Park – Skating Rink	831578	839982	36.53	10.0	16.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AQO Standard						25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25