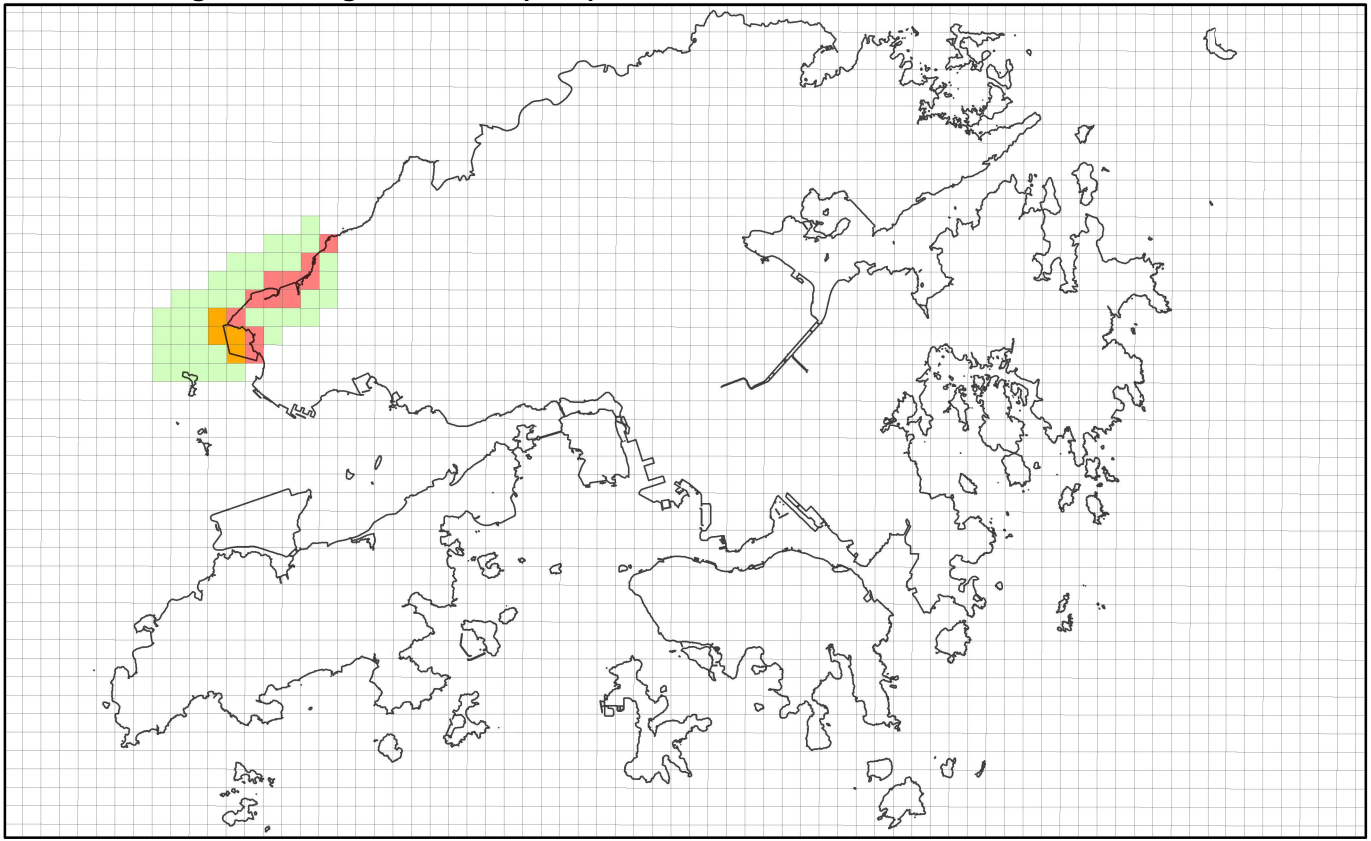


Appendix 3A The predicted PATH model results

Level 1 (0m-17m)

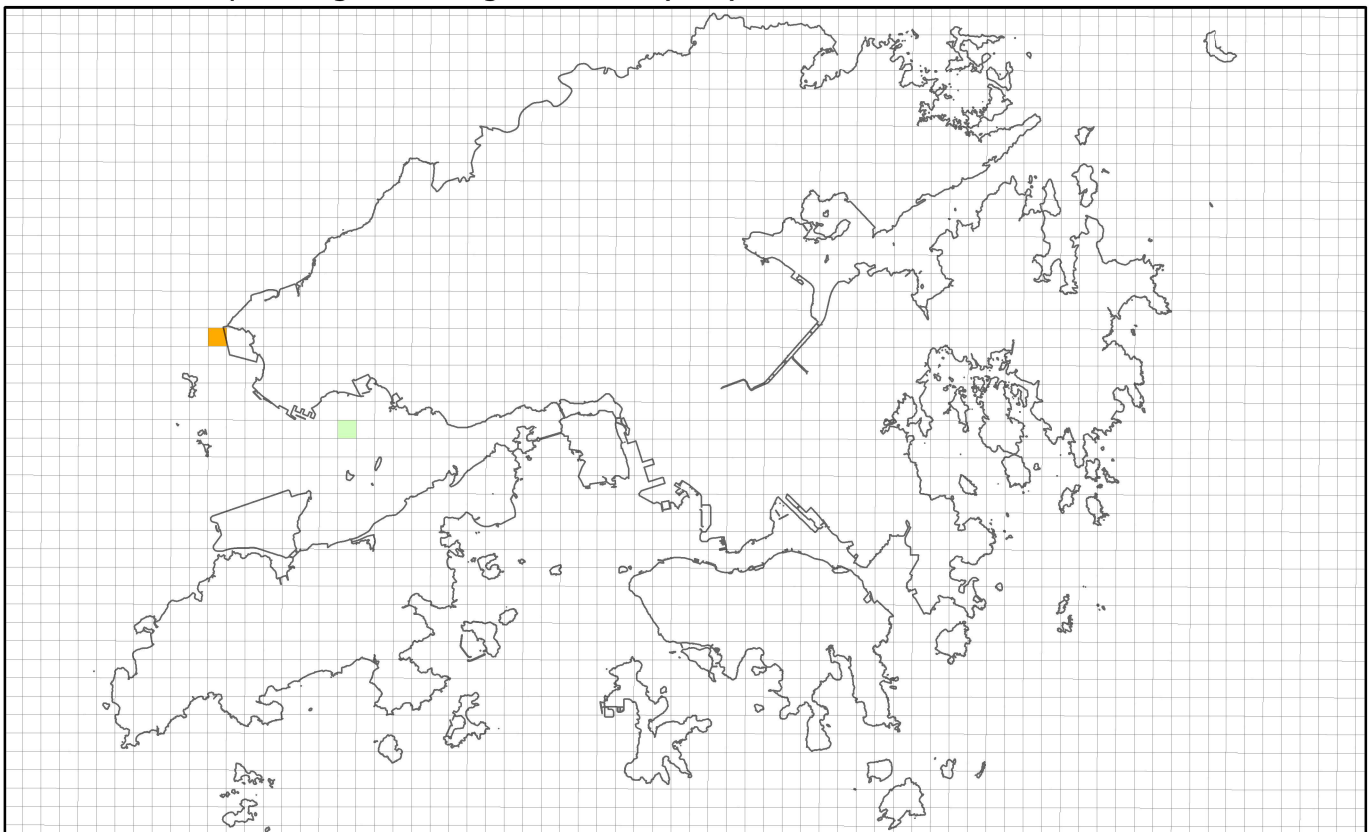
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

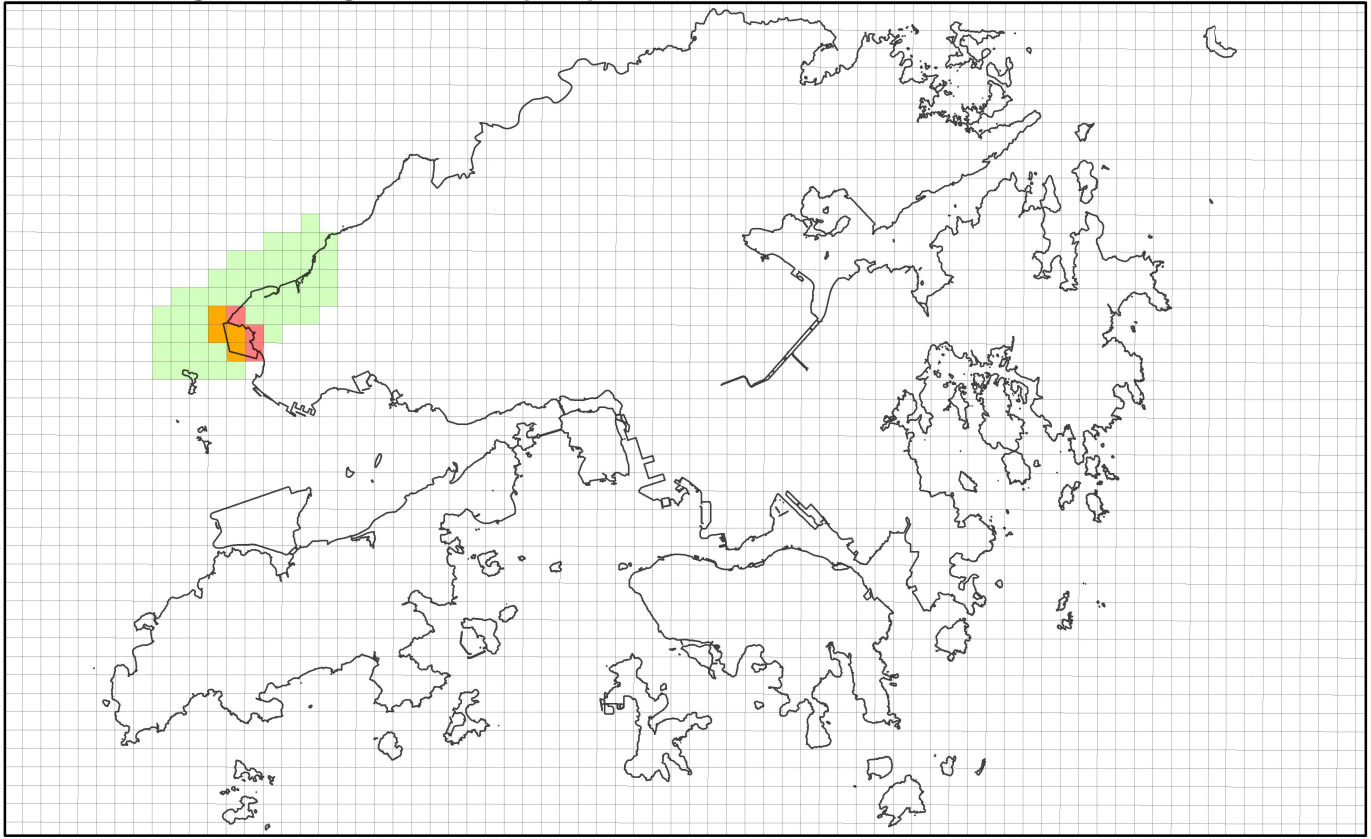
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 2 (17m-35m)

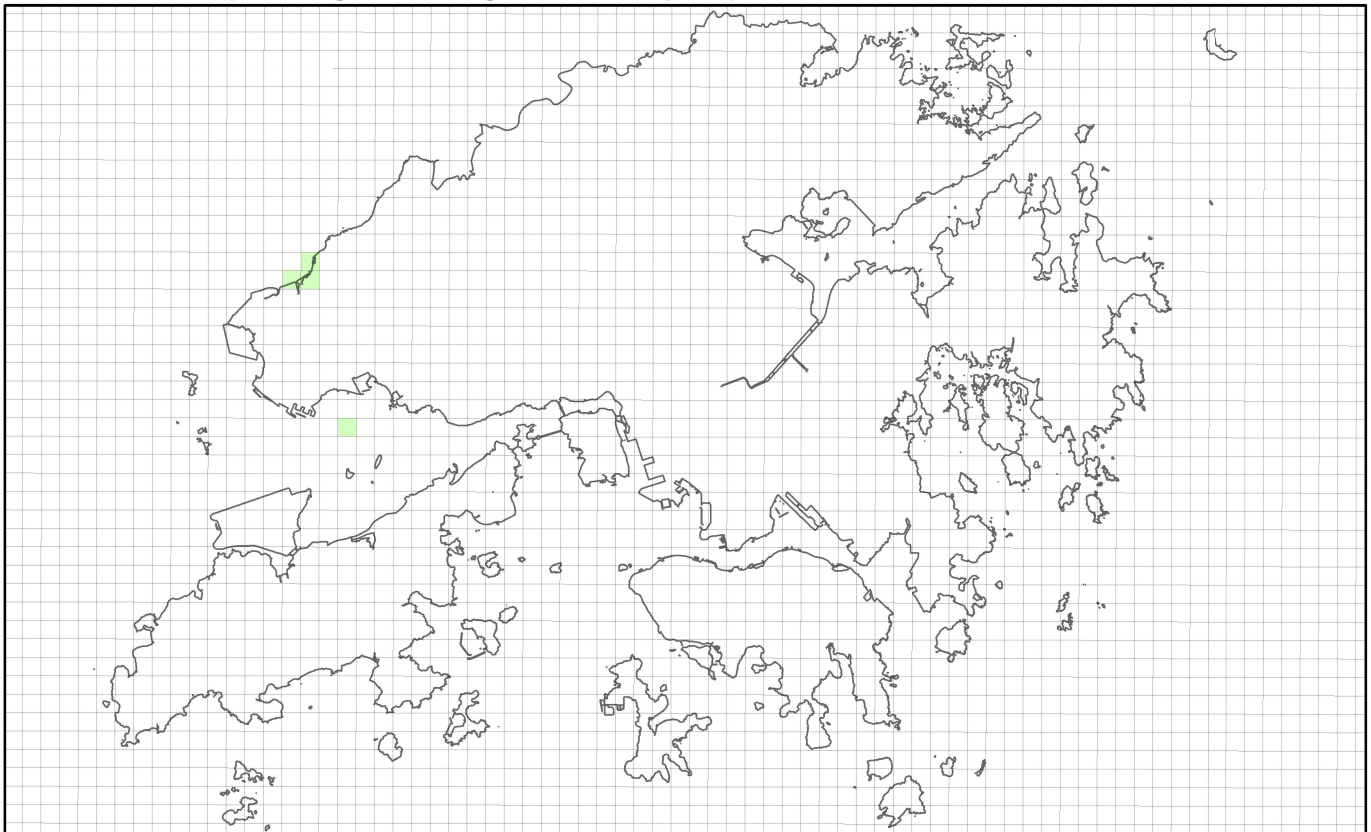
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

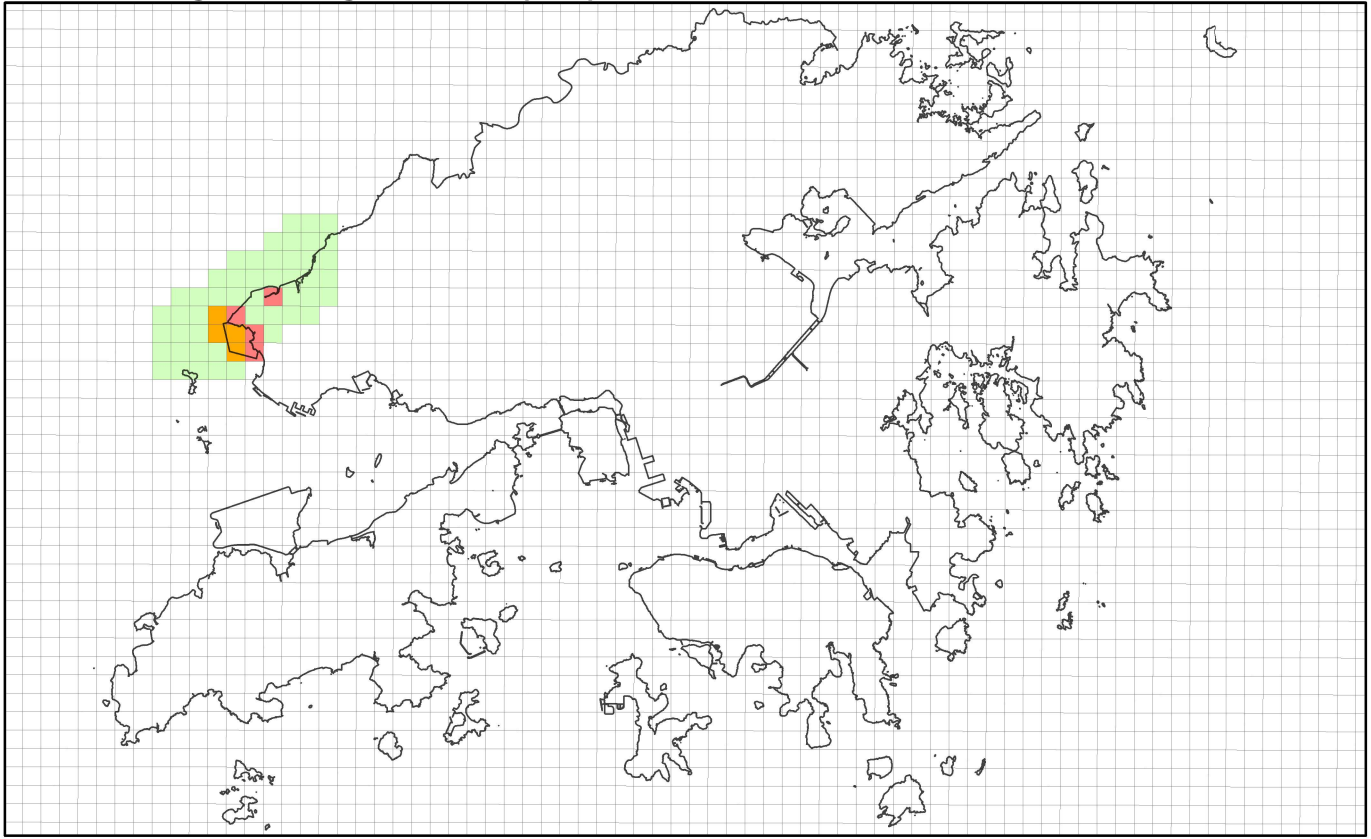
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 3 (35m-55m)

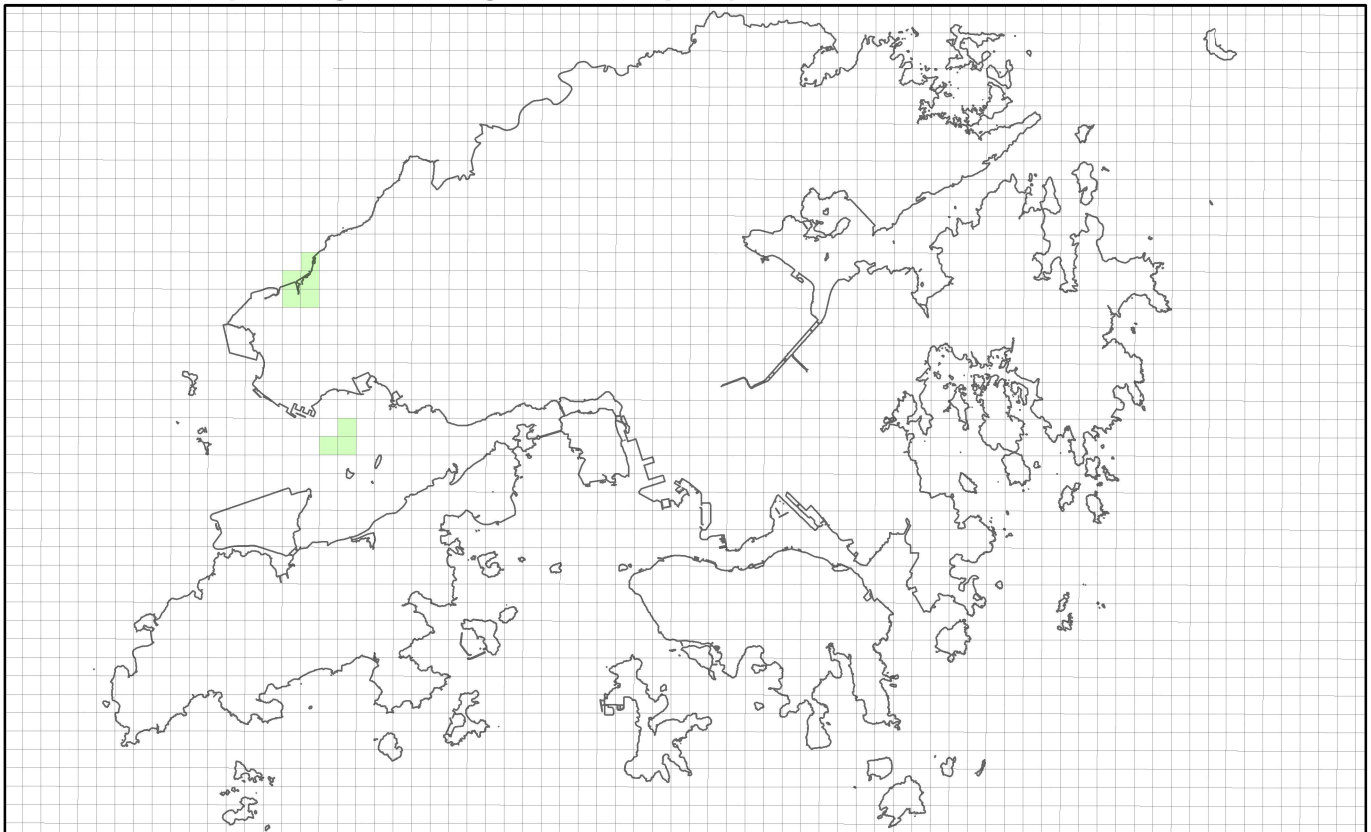
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

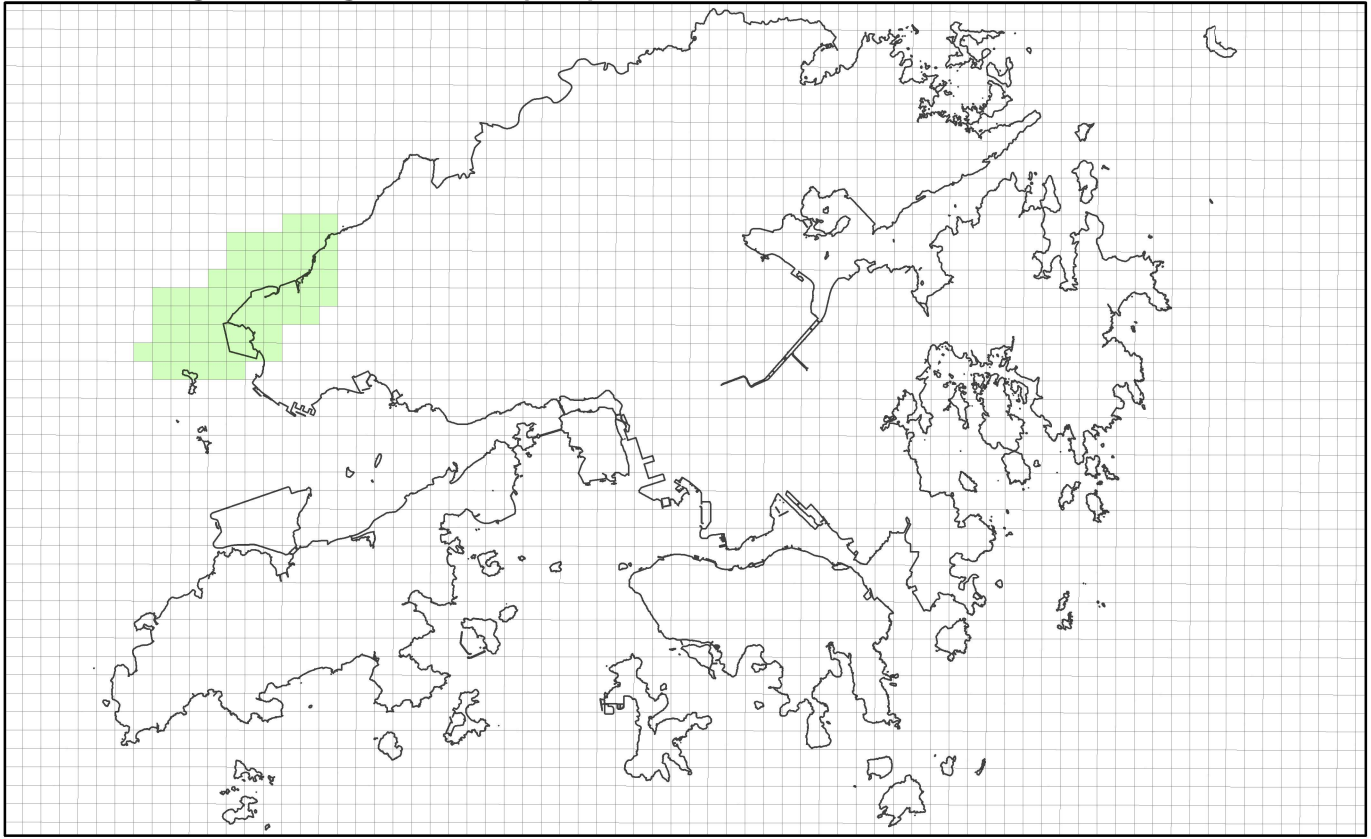
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 4 (55m-77m)

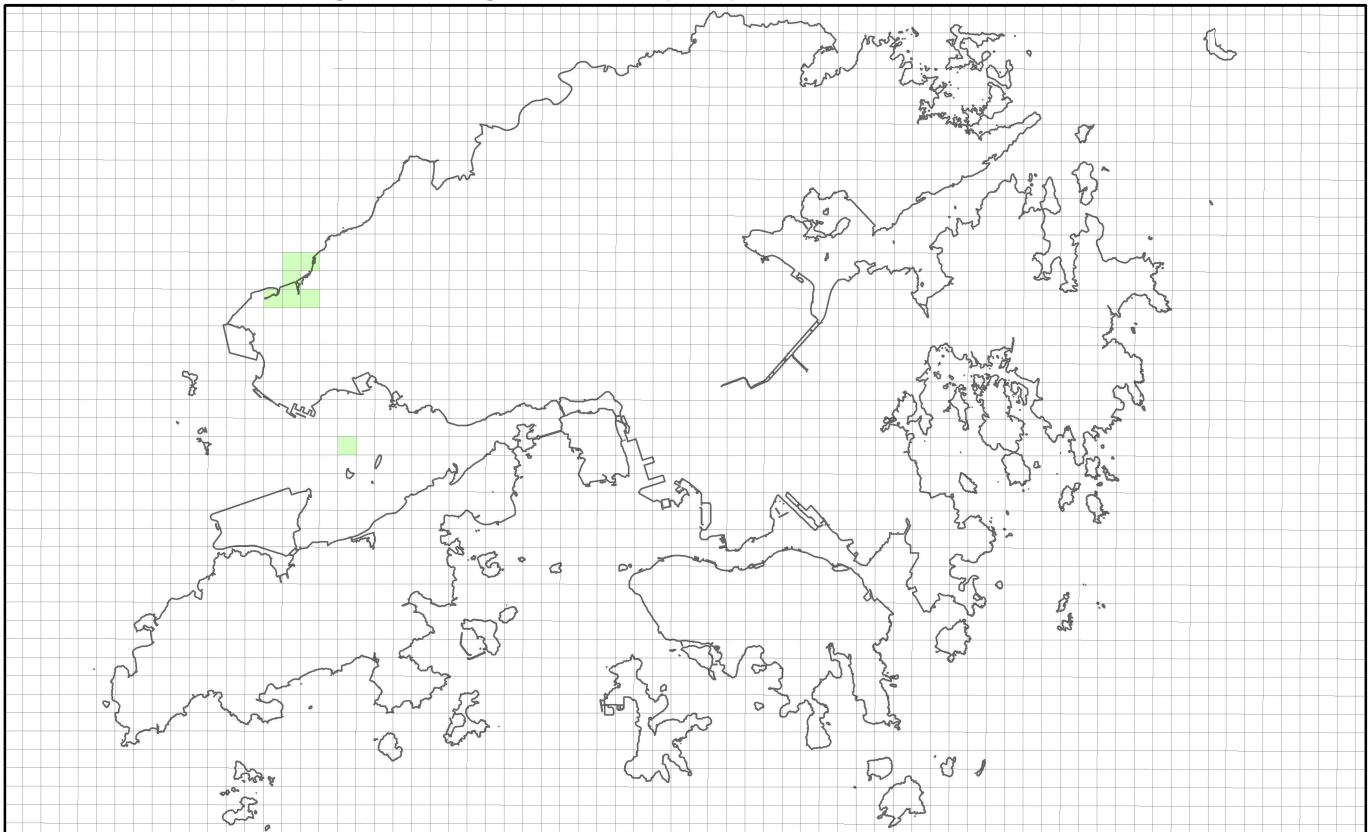
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

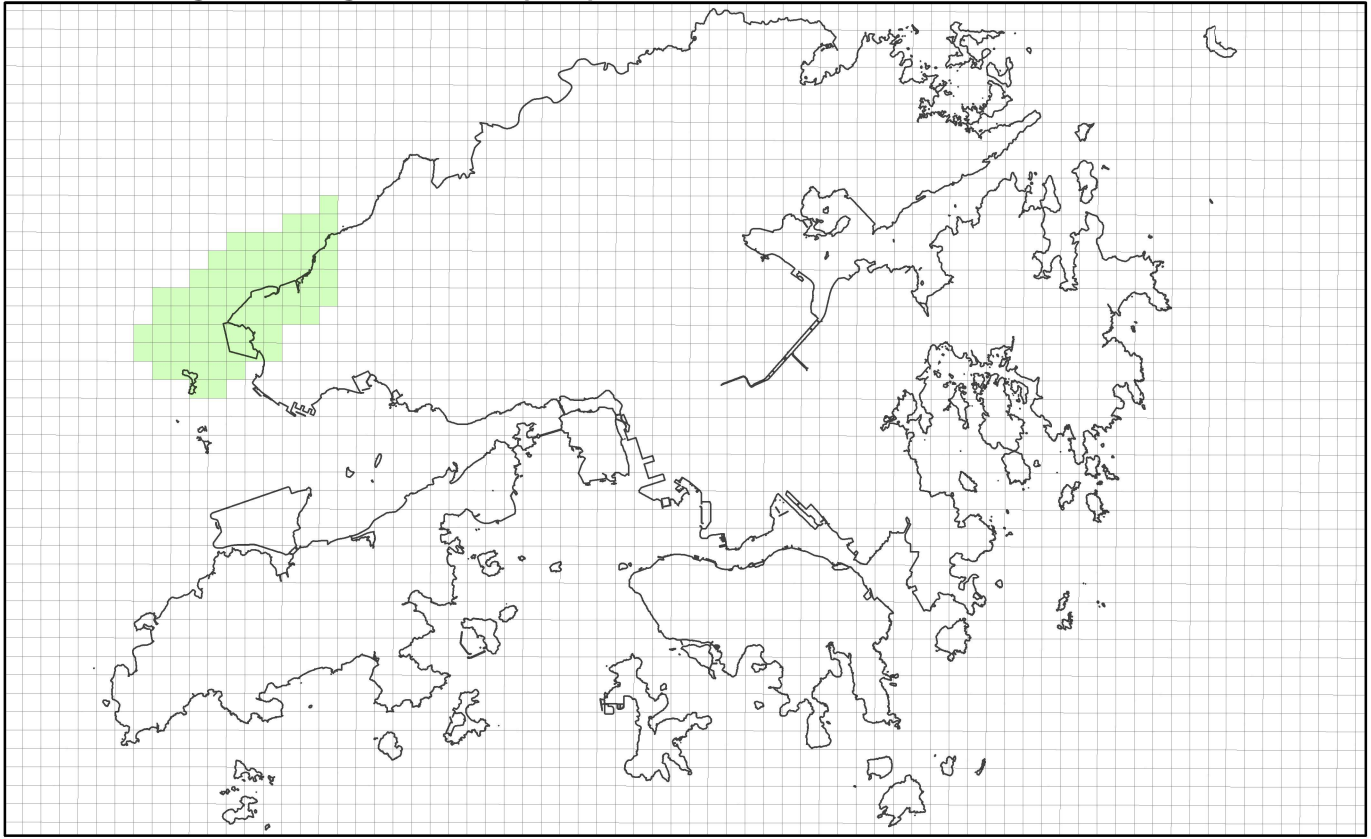
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 5 (77m-101m)

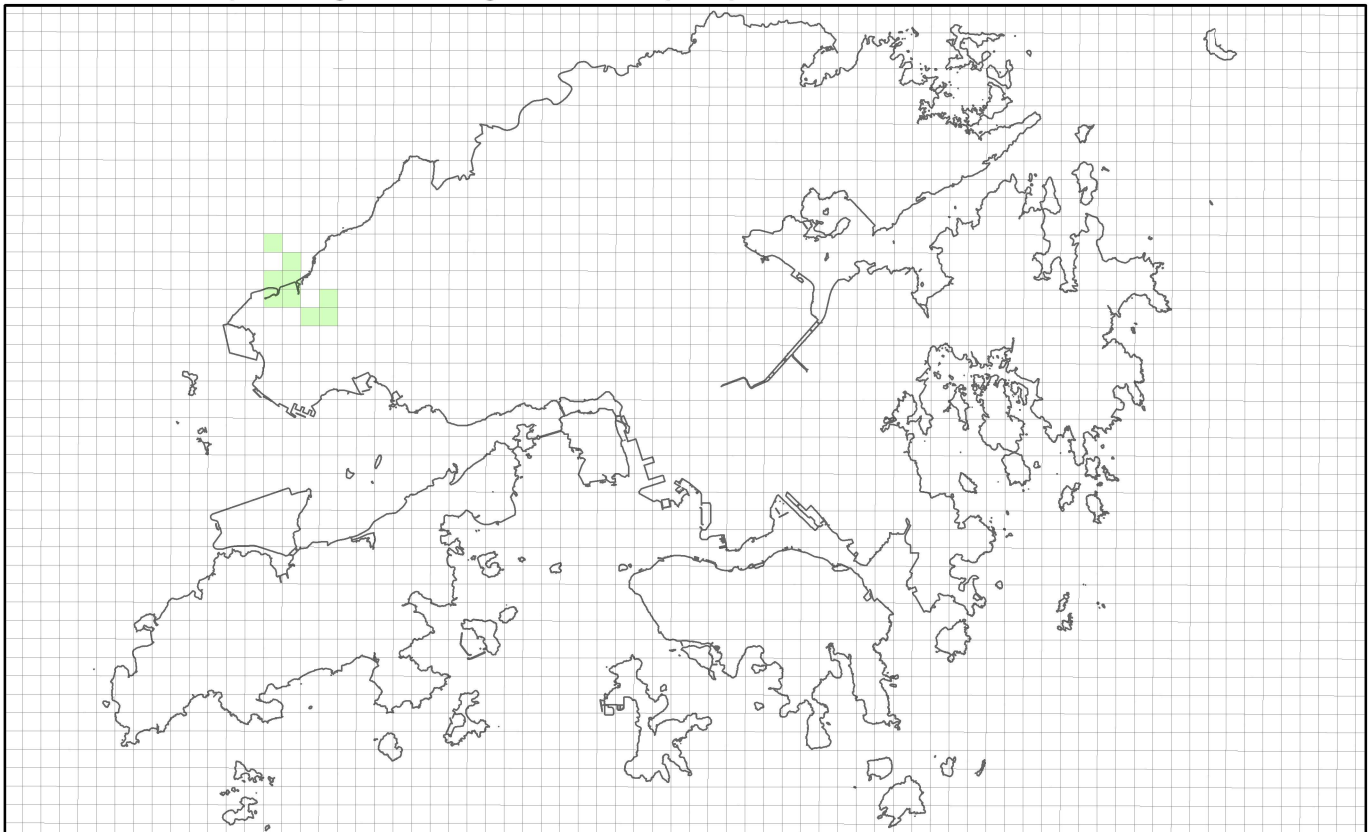
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

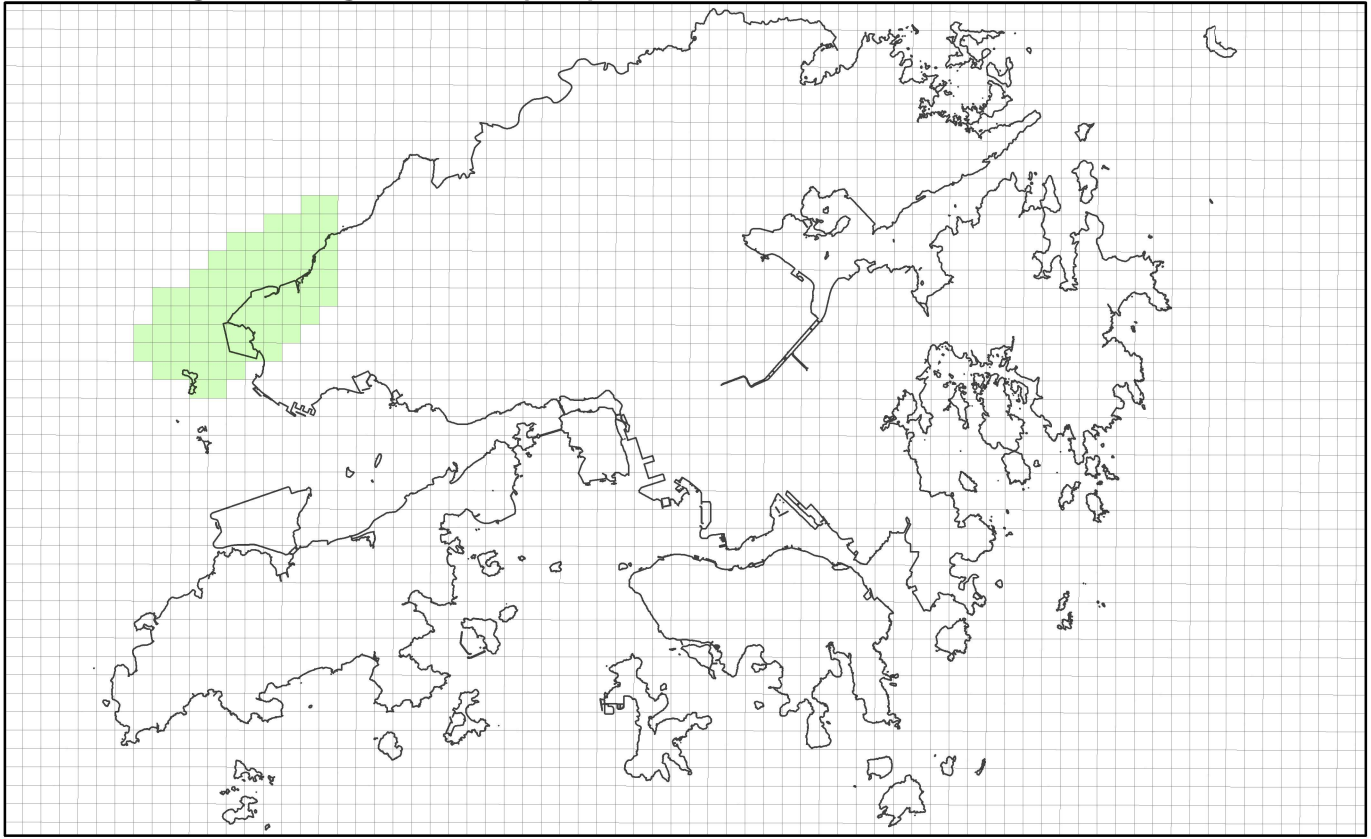
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 6 (101m-126m)

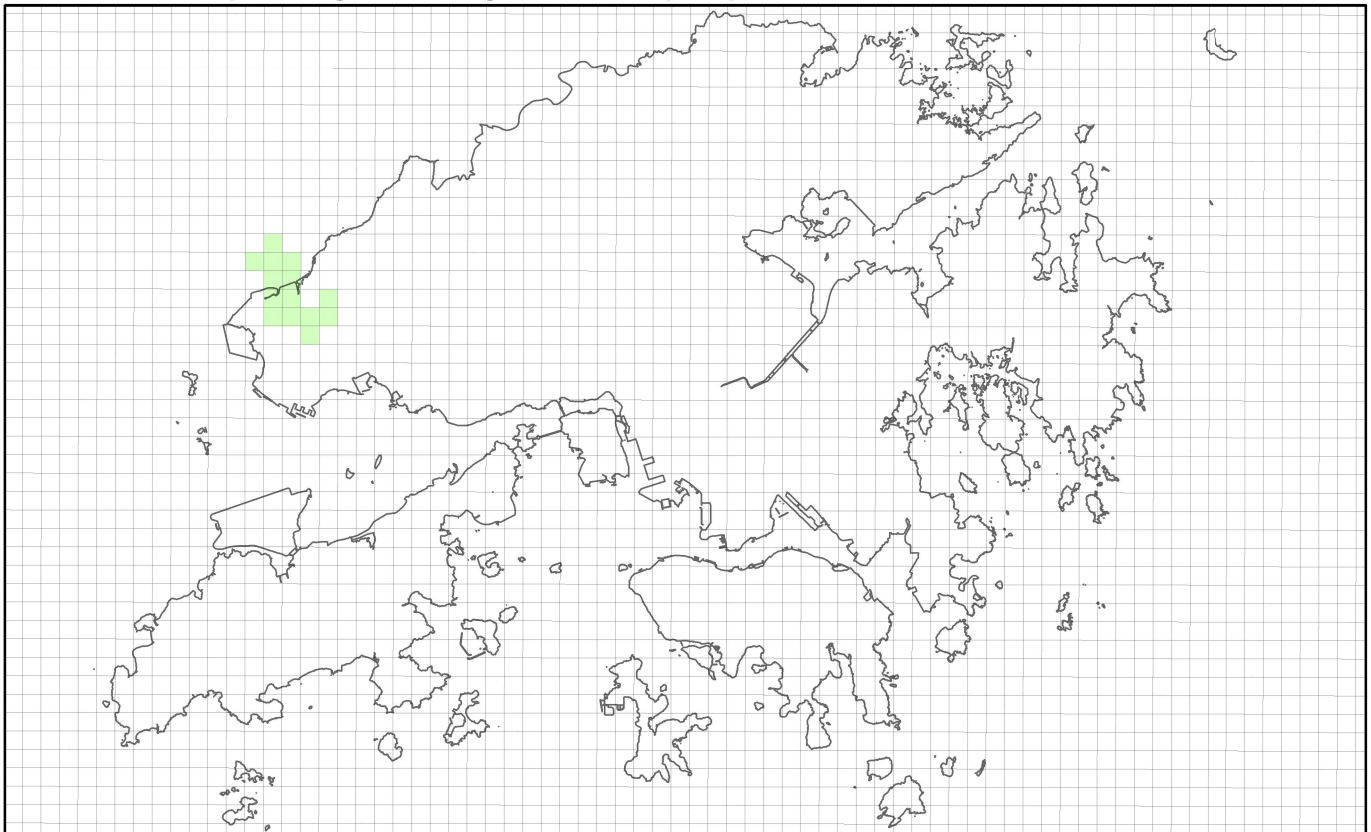
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

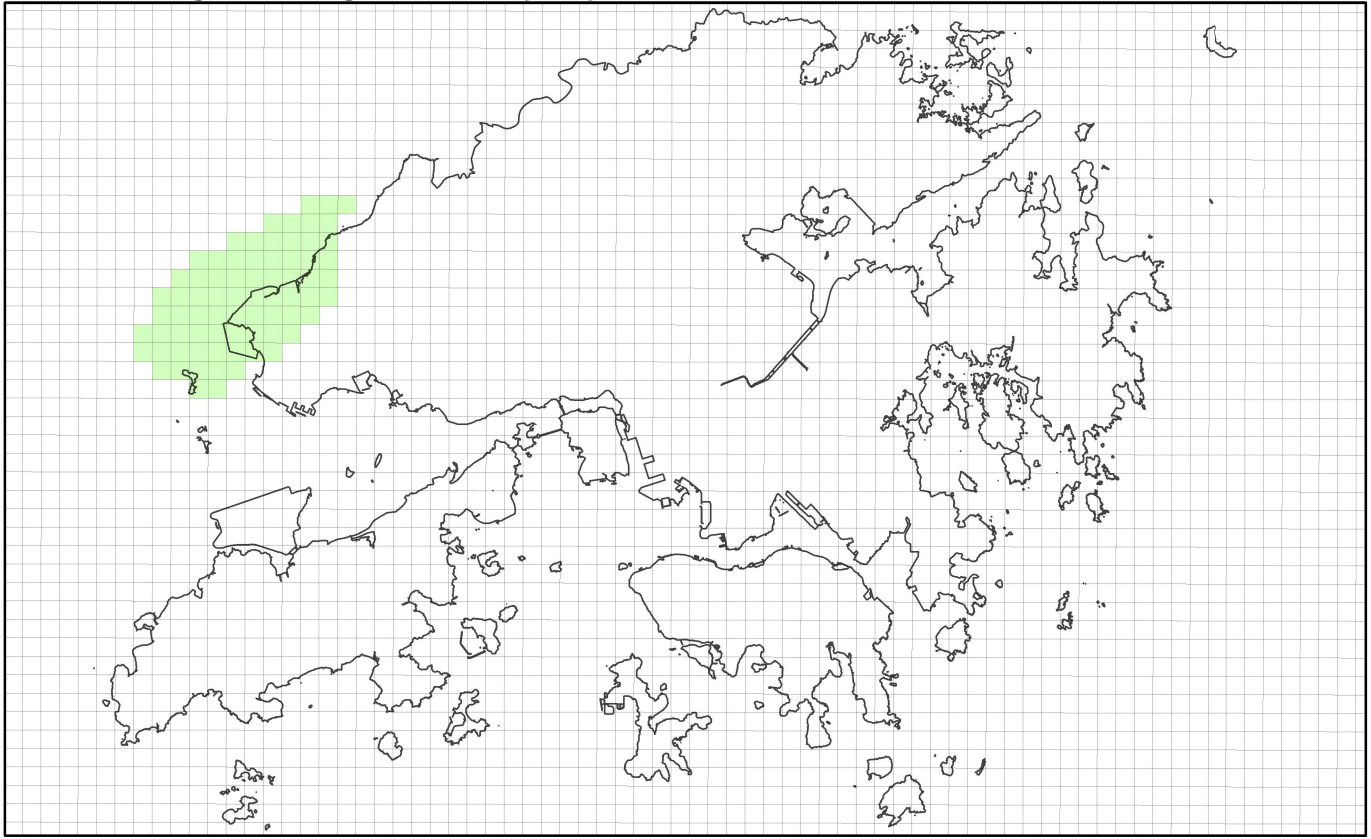
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 7 (126m-156m)

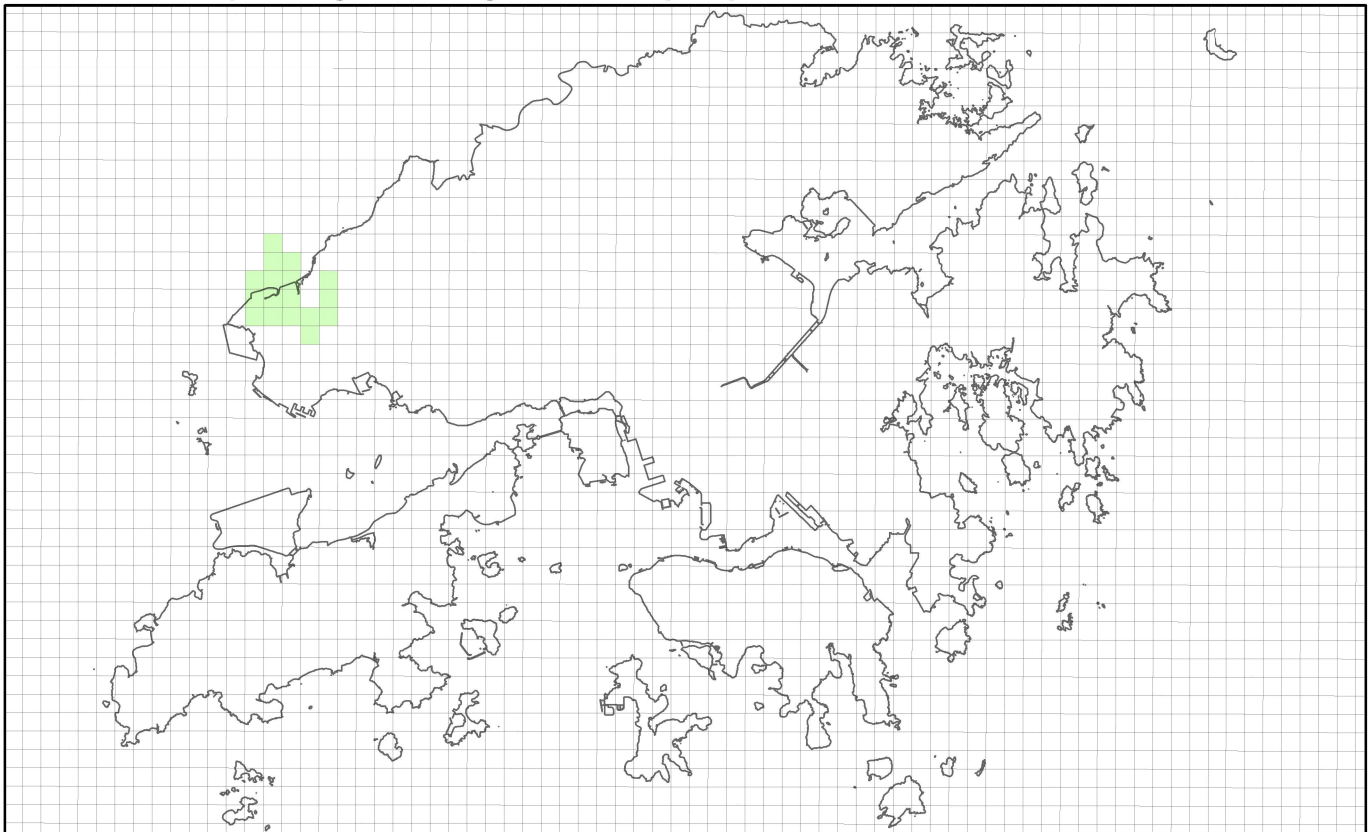
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

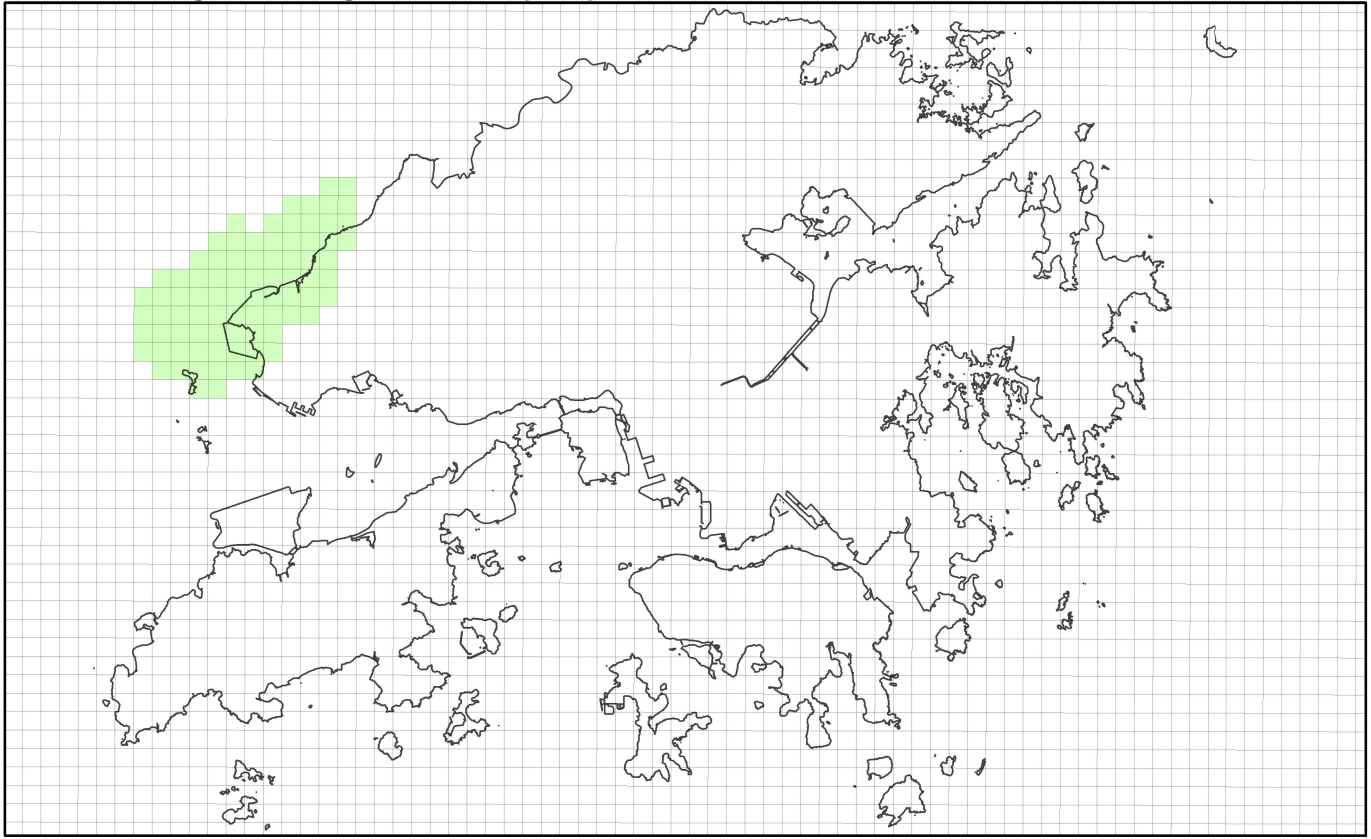
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 8 (156m-192m)

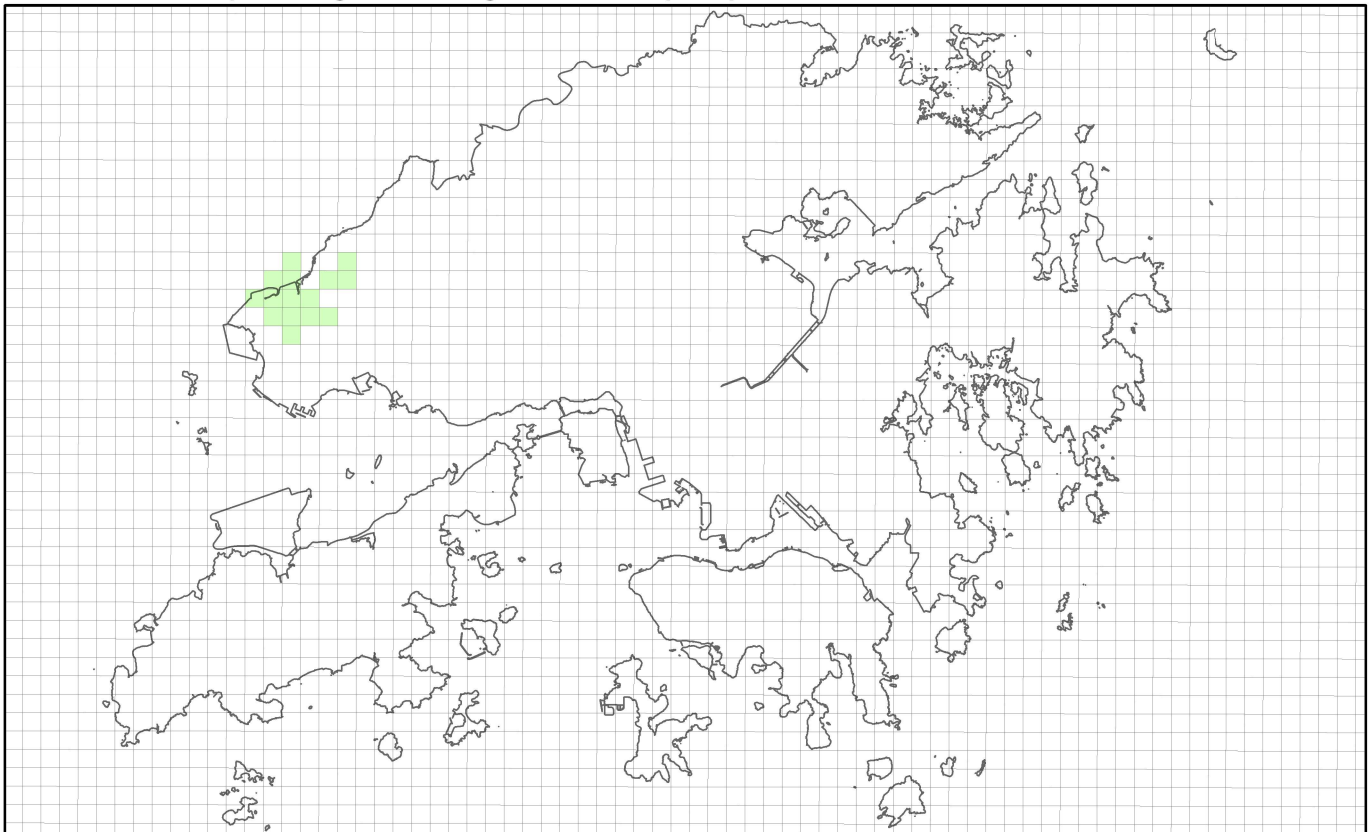
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

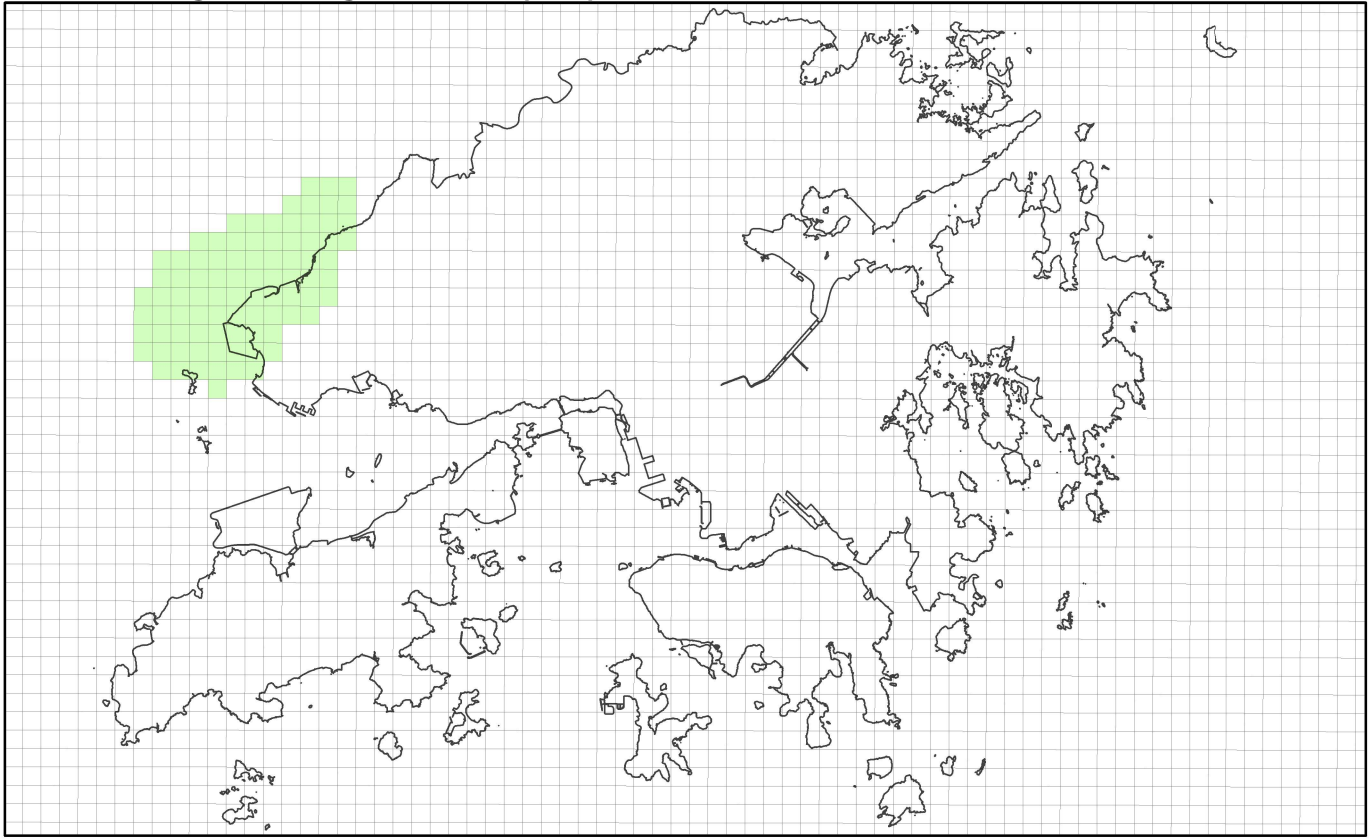
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 9 (192m-234m)

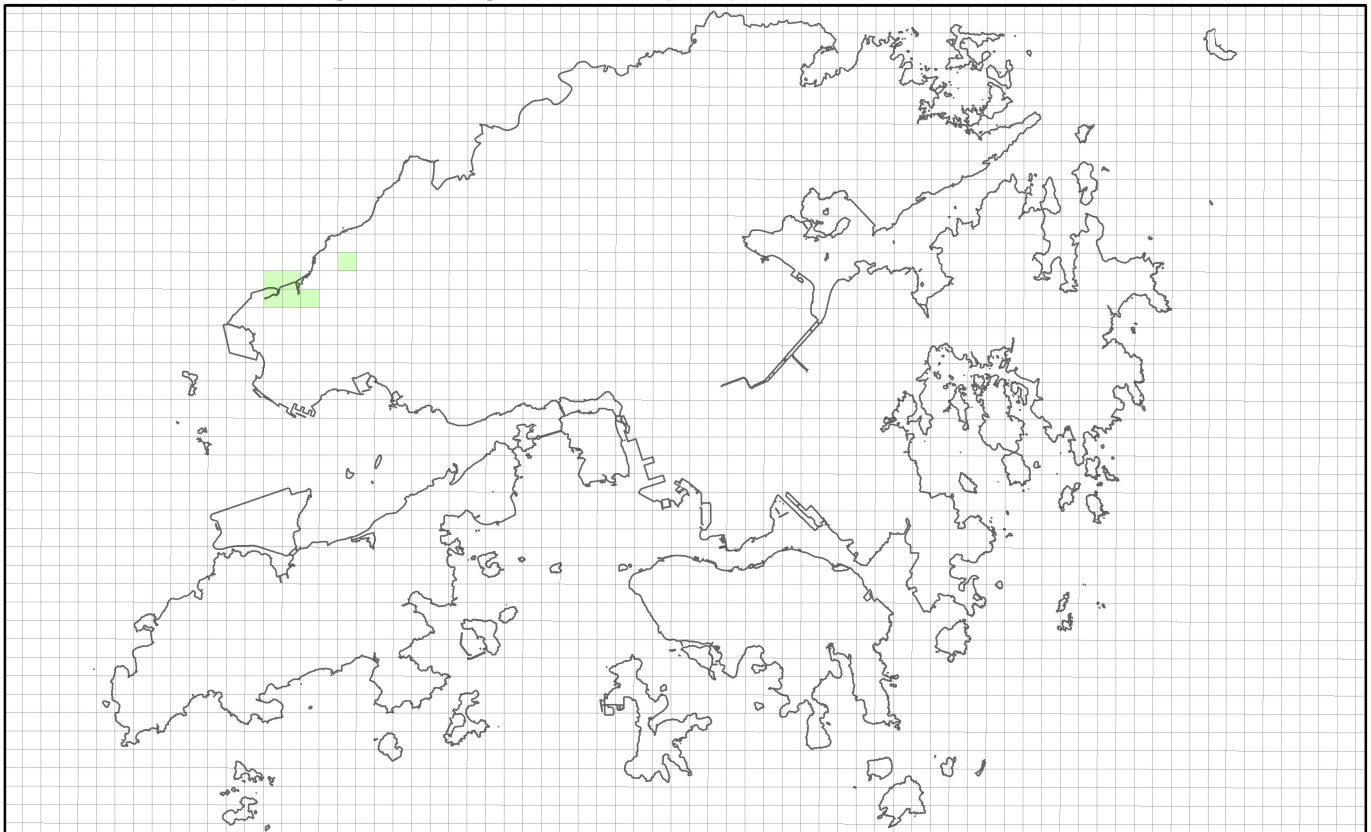
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

Model grid exceeding significant impact level (SIL) with ASR is presented in ■

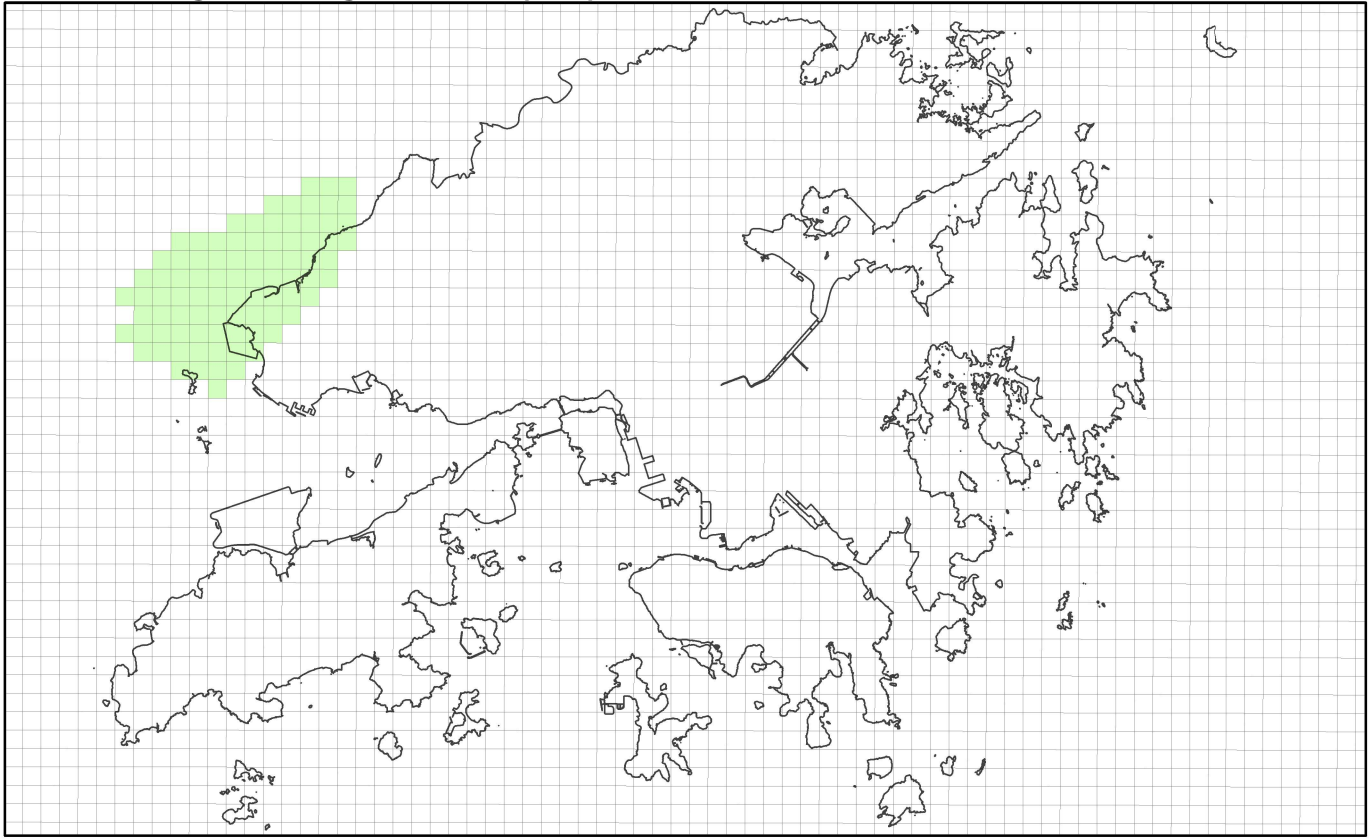
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A The predicted PATH model results

Level 10 (234m-285m)

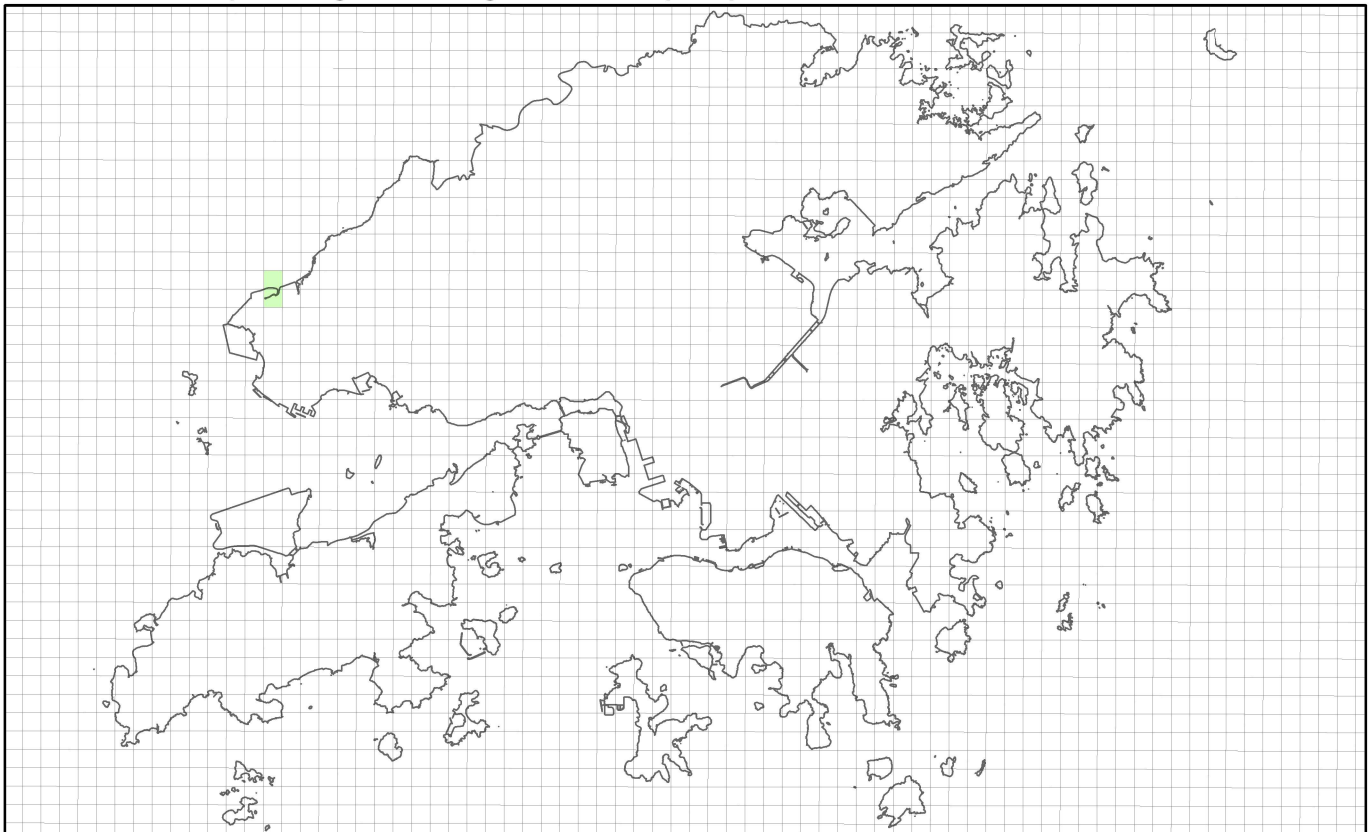
Annual Average of Nitrogen Dioxide (NO₂)

SIL=0.4 µg/m³



Maximum Hourly Average of Nitrogen Dioxide (NO₂)

SIL=7 µg/m³



Model grid exceeding significant impact level (SIL) without ASR is presented in ■

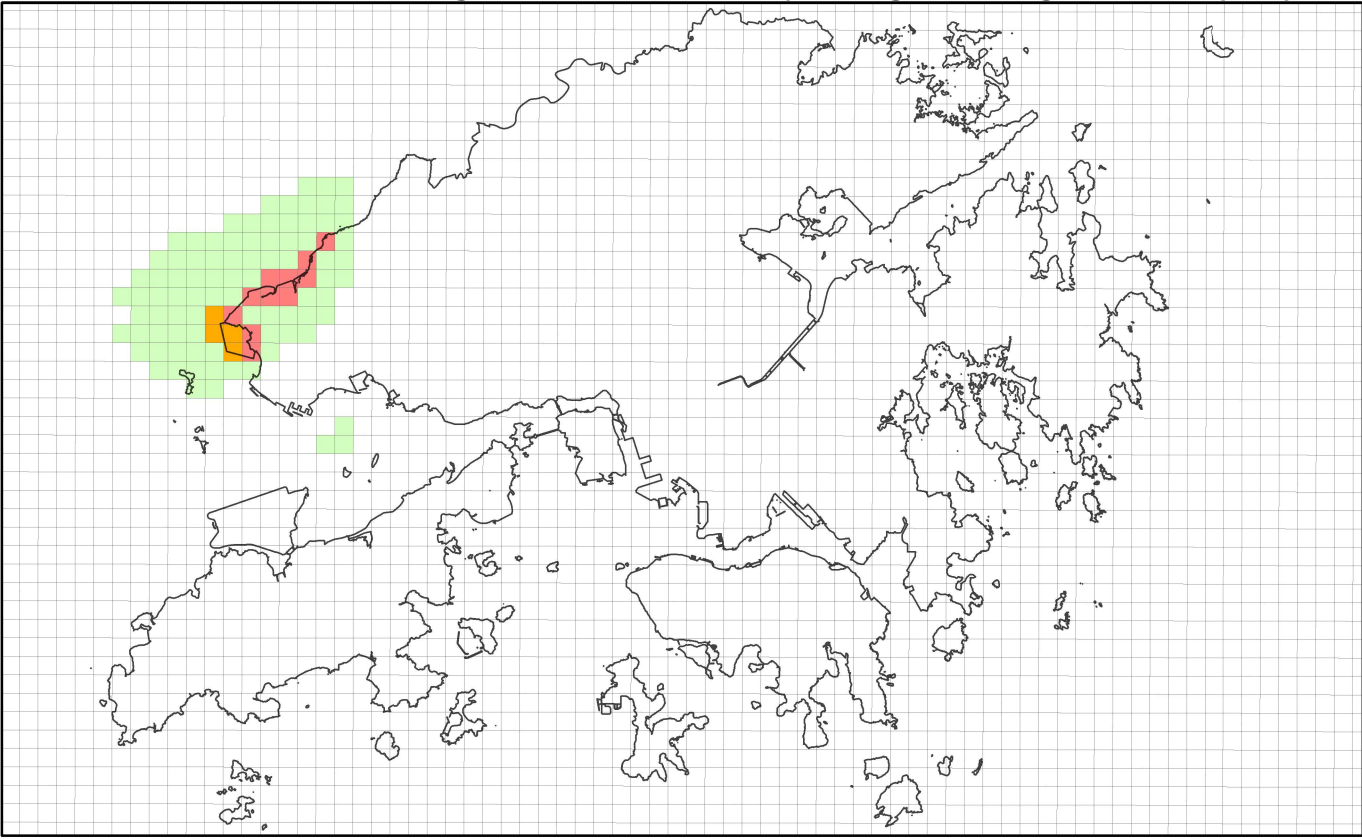
Model grid exceeding significant impact level (SIL) with ASR is presented in ■

Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

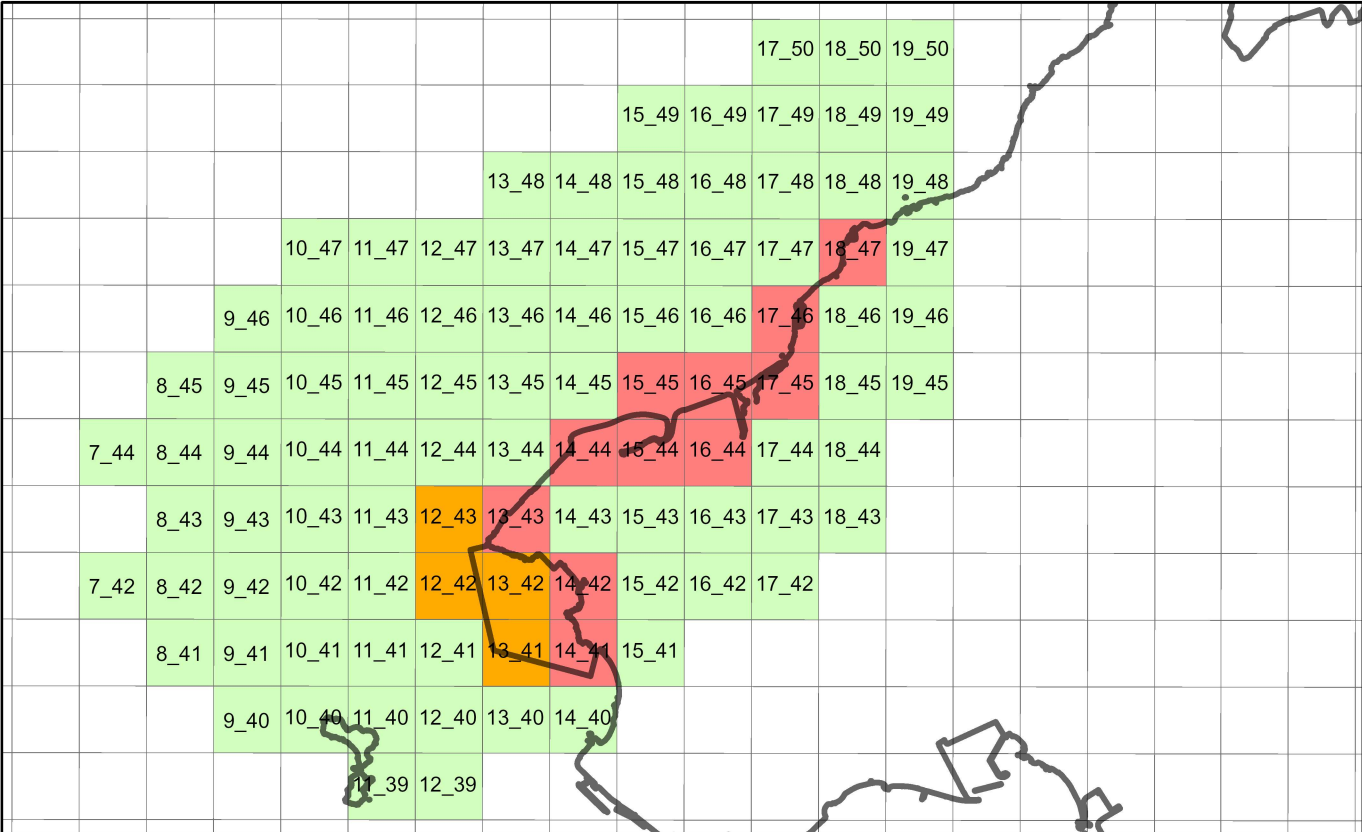
Appendix 3A The predicted PATH model results

Level 1-10

Combined Plots of Annual Average and Maximum Hourly Average of Nitrogen Dioxide (NO₂)



Zoomed-in view 1

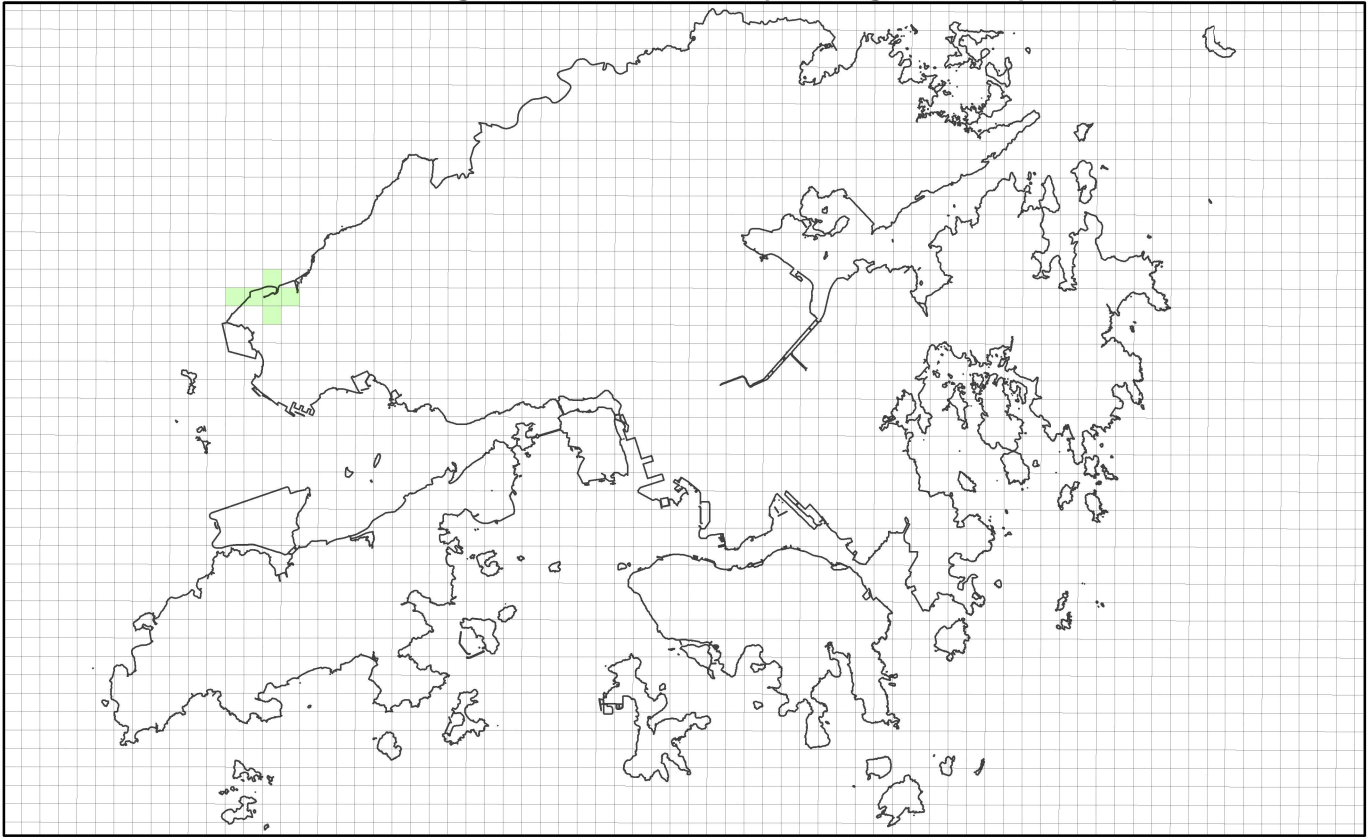


Model grid exceeding significant impact level (SIL) without ASR is presented in ■
 Model grid exceeding significant impact level (SIL) with ASR is presented in ■
 Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

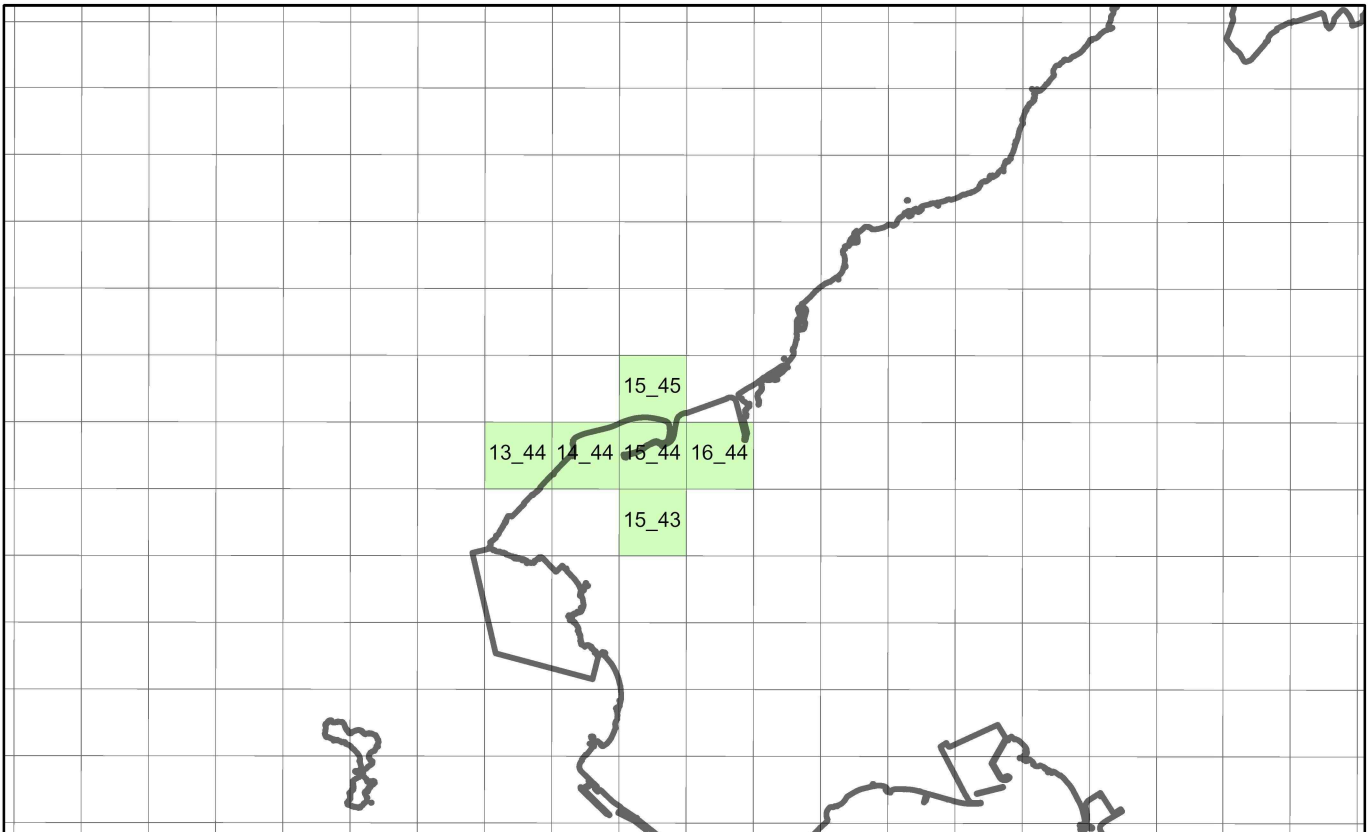
Appendix 3A The predicted PATH model results

Level 1-10

Combined Plots of Annual Average and Maximum Daily Average of FSP (PM2.5)



Zoomed-in view 1

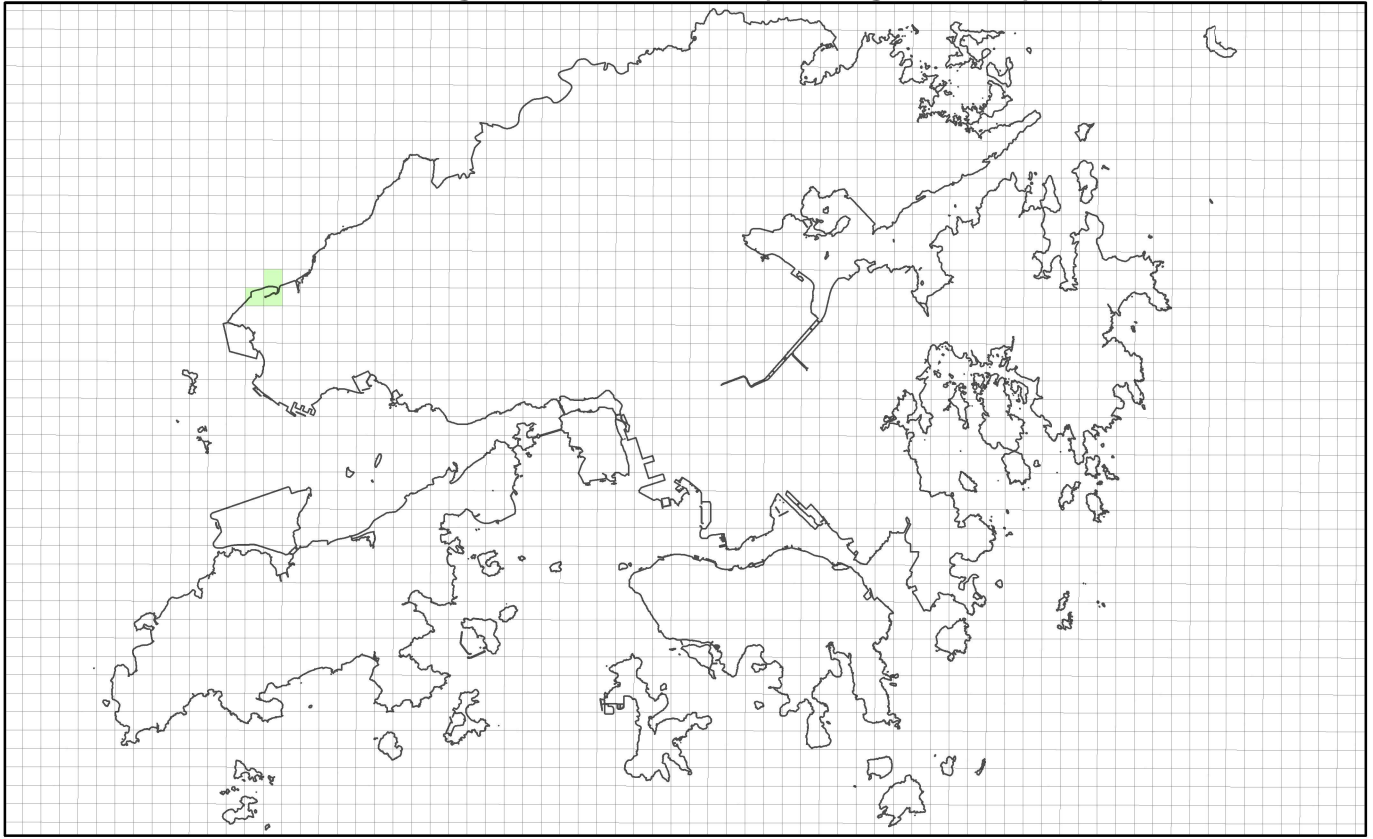


Model grid exceeding significant impact level (SIL) without ASR is presented in ■
Model grid exceeding significant impact level (SIL) with ASR is presented in ■
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

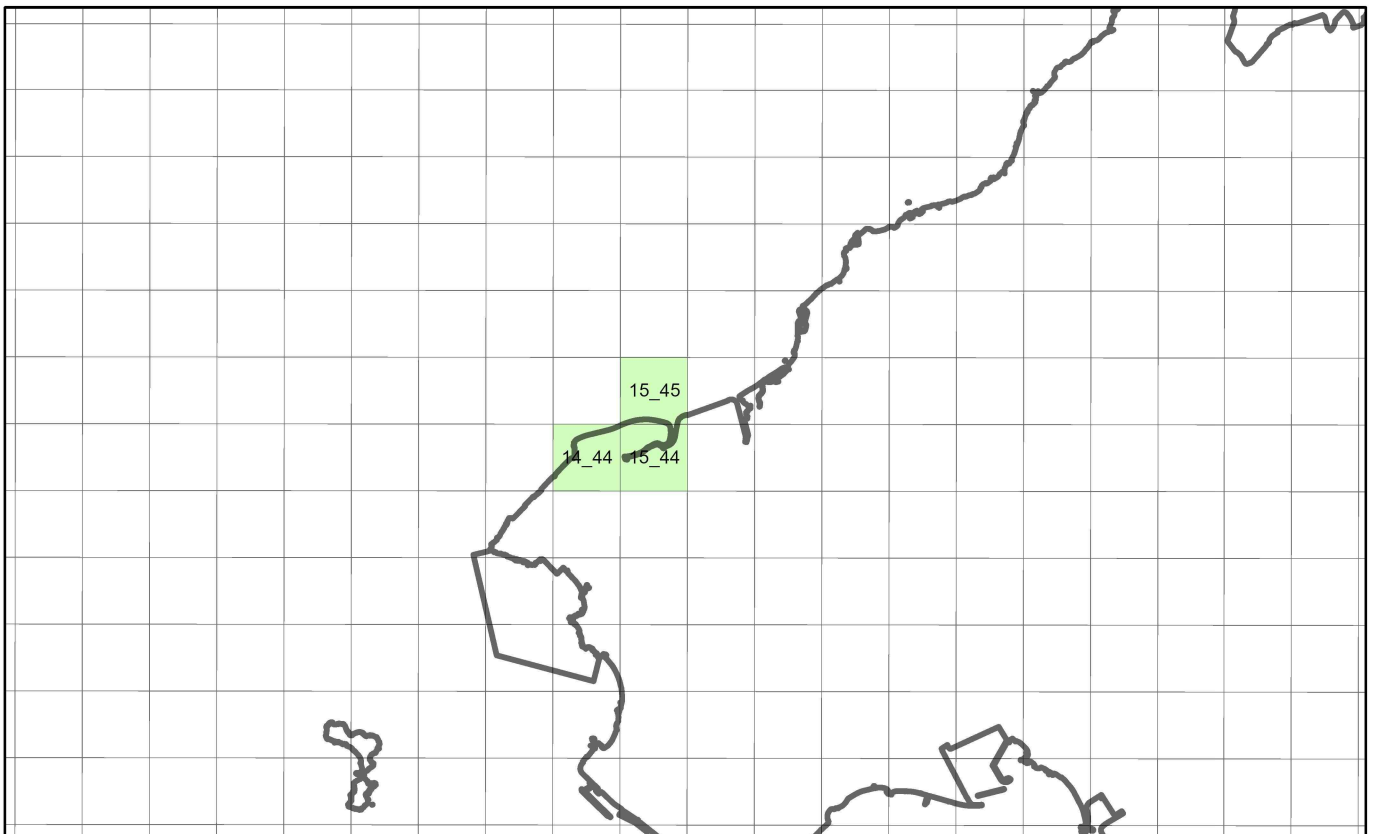
Appendix 3A The predicted PATH model results

Level 1-10

Combined Plots of Annual Average and Maximum Daily Average of RSP (PM10)



Zoomed-in view 1

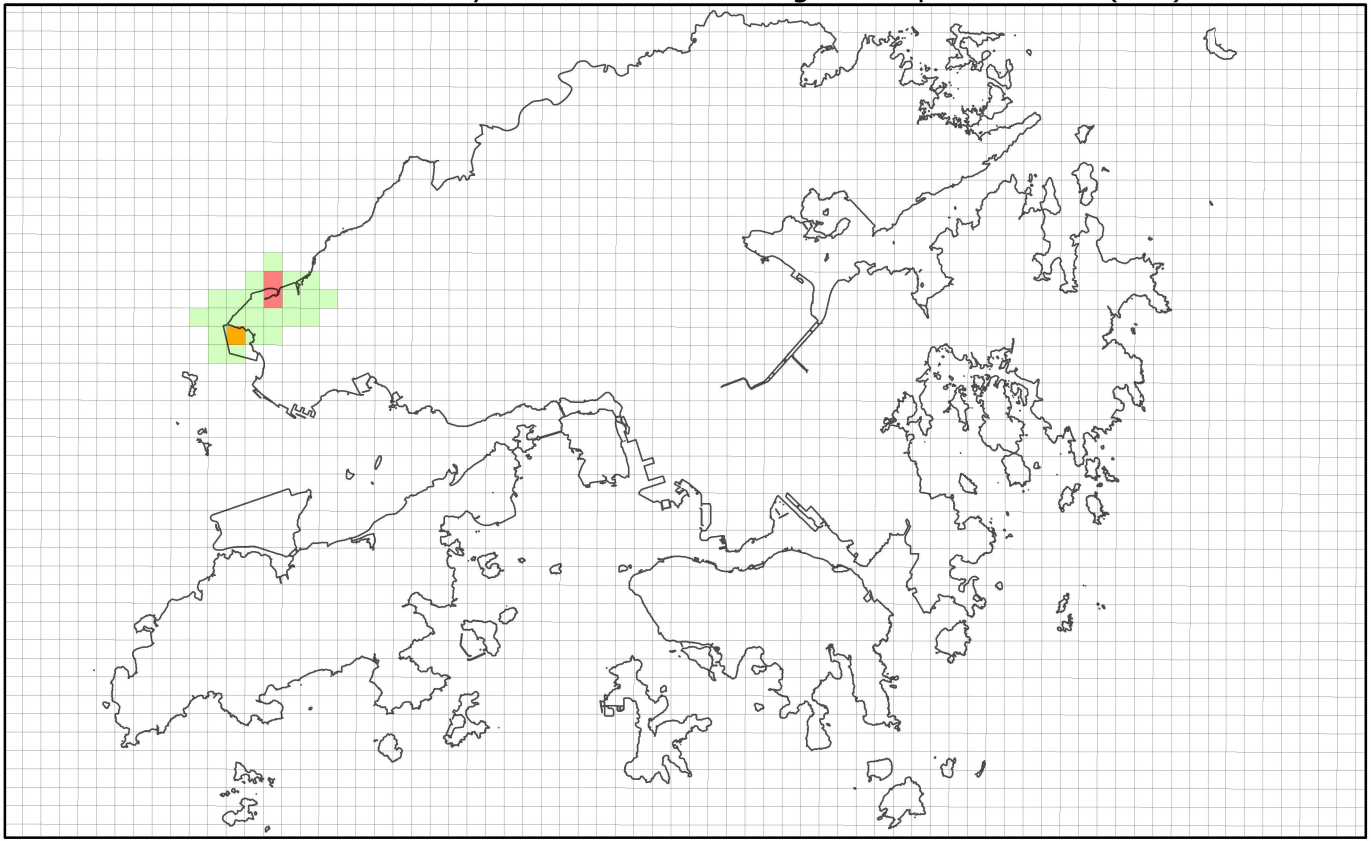


Model grid exceeding significant impact level (SIL) without ASR is presented in ■
Model grid exceeding significant impact level (SIL) with ASR is presented in ■
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

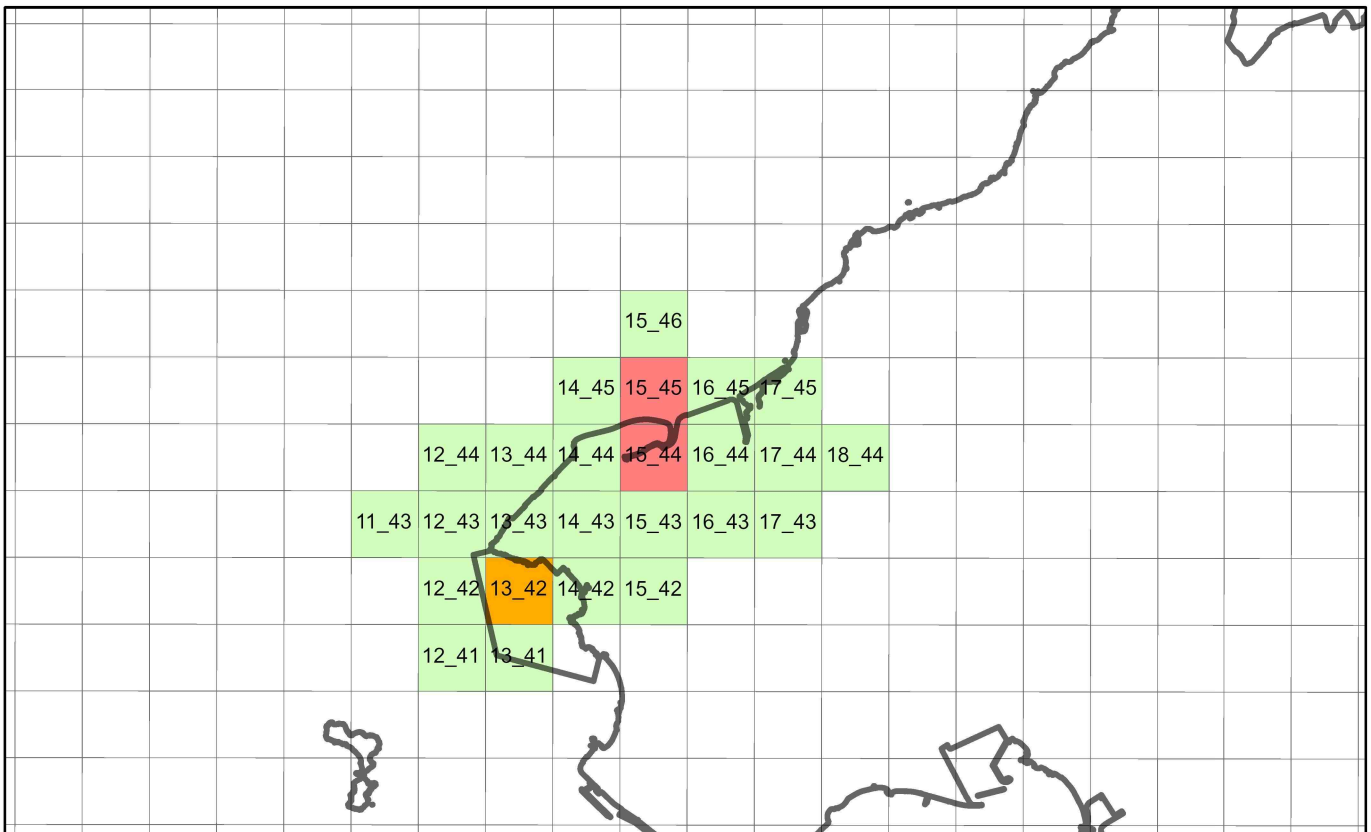
Appendix 3A The predicted PATH model results

Level 1-10

Combined Plots of Maximum Daily and 10-minute Average of Sulphur Dioxide (SO₂)



Zoomed-in view 1



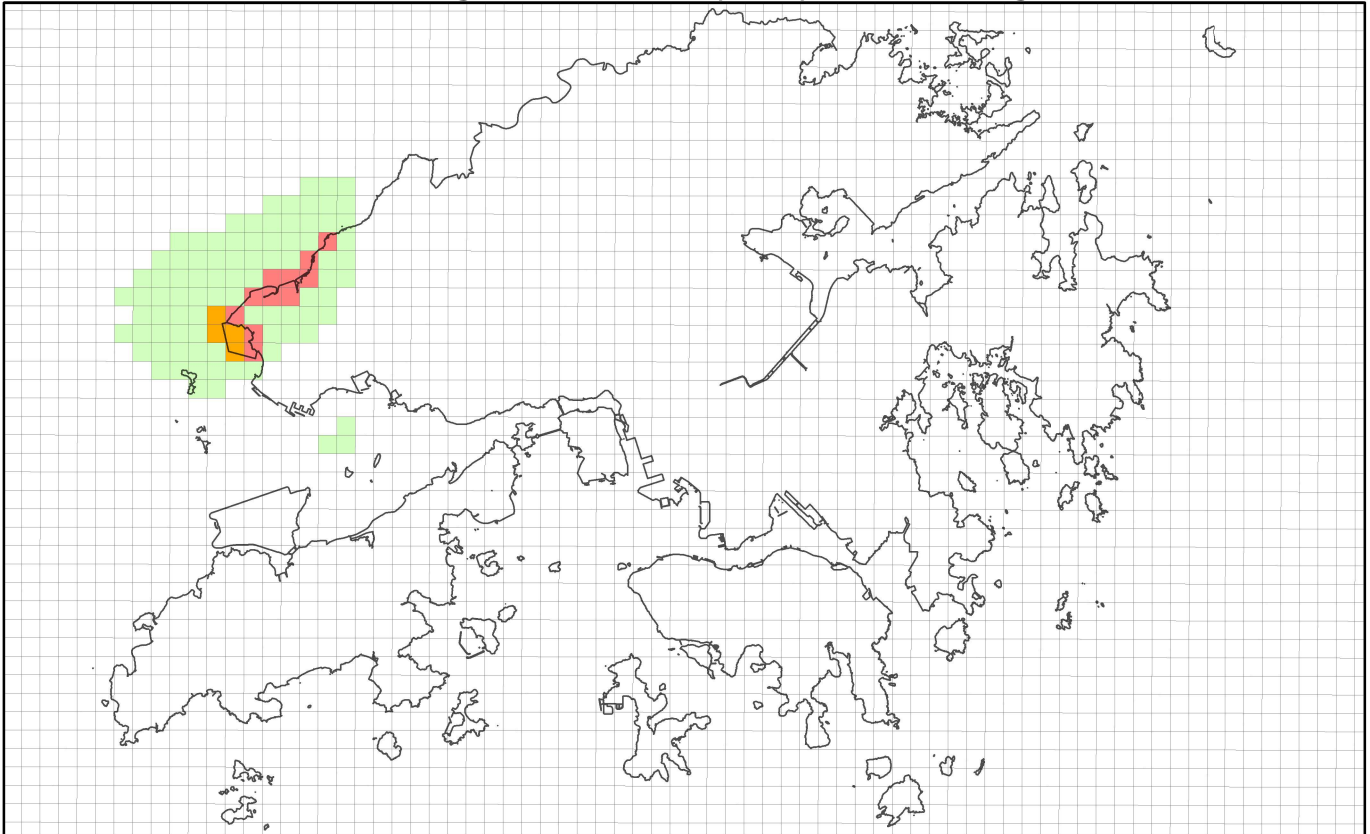
Model grid exceeding significant impact level (SIL) without ASR is presented in ■
Model grid exceeding significant impact level (SIL) with ASR is presented in ■
Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Appendix 3A

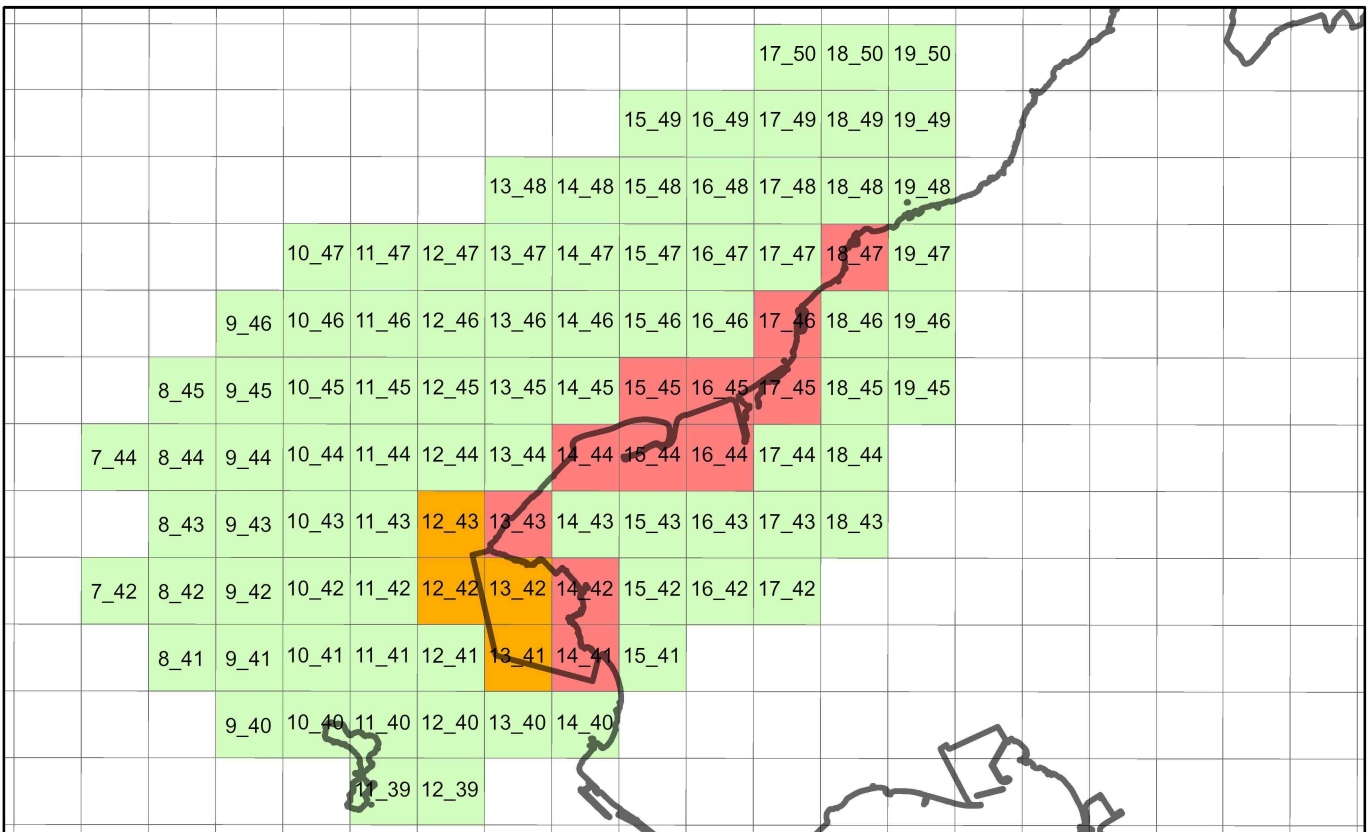
The predicted PATH model results

Level 1-10

Combined Plots of Annual Average and Max. Hourly/Daily/10-min Average of NO₂, FSP, RSP and SO₂



Zoomed-in view 1



Model grid exceeding significant impact level (SIL) without ASR is presented in ■
 Model grid exceeding significant impact level (SIL) with ASR is presented in ■
 Model grid exceeding significant impact level (SIL) with potential ASR at Lung Kwu Tan Reclamation Area is presented in ■

Predicted Project Contribution in NO₂, RSP, FSP and SO₂ Concentration [1]

PATH Model Level (m above ground)	Grid_Cells	Type of Receiver	Annual Averaged NO ₂ Concentration		Maximum Hourly Averaged NO ₂ Concentration		Annual Averaged RSP Concentration		Maximum Daily Averaged RSP Concentration		Annual Averaged FSP Concentration		Maximum Daily Averaged FSP Concentration		Maximum 10-min Averaged SO ₂ Concentration		Maximum Daily Averaged SO ₂ Concentration	
			Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)	Predicted Increase due to IPARK2 (ug/m ³)	Project Contribution (% AQO)
Significant Impact Levels (ug/m3) [2]			0.4	-	7	-	0.5	-	3.5	-	0.25	-	1.75	-	17.5	-	1.75	-
1 (0m-17m)	12_42	Development under planning	0.80	2.0%	7.93	4.0%	0.08	0.2%	0.40	0.4%	0.08	0.3%	0.37	0.7%	<0.01	<0.1%	1.20	2.4%
	12_43	Development under planning	0.87	2.2%	0.13	0.1%	0.08	0.2%	0.40	0.4%	0.09	0.3%	0.26	0.5%	0.31	0.1%	0.83	1.7%
	13_41	Development under planning	0.58	1.5%	0.25	0.1%	0.06	0.1%	0.19	0.2%	0.07	0.3%	0.37	0.7%	0.01	0.0%	0.86	1.7%
	13_42	Development under planning	0.77	1.9%	0.36	0.2%	0.08	0.2%	0.29	0.3%	0.09	0.3%	0.40	0.8%	0.08	0.0%	1.34	2.7%
	13_43	Industrial	0.92	2.3%	0.47	0.2%	0.10	0.2%	0.31	0.3%	0.10	0.4%	0.34	0.7%	0.20	0.0%	1.54	3.1%
	14_41	Residential	0.50	1.2%	0.26	0.1%	0.05	0.1%	0.06	0.1%	0.06	0.2%	0.21	0.4%	2.00	0.4%	0.65	1.3%
	14_42	Residential	0.71	1.8%	0.29	0.1%	0.07	0.1%	0.10	0.1%	0.08	0.3%	0.31	0.6%	2.42	0.5%	1.06	2.1%
	14_44	G/IC	1.03	2.6%	1.81	0.9%	0.10	0.2%	0.20	0.2%	0.11	0.4%	0.09	0.2%	<0.01	<0.1%	1.63	3.3%
	15_44	G/IC	1.30	3.3%	3.85	1.9%	0.15	0.3%	0.23	0.2%	0.17	0.7%	0.28	0.6%	10.70	2.1%	2.10	4.2%
	15_45	G/IC	0.85	2.1%	2.88	1.4%	0.09	0.2%	0.24	0.2%	0.10	0.4%	0.21	0.4%	0.31	0.1%	2.58	5.2%
	16_44	Residential	1.03	2.6%	4.25	2.1%	0.11	0.2%	0.06	0.1%	0.12	0.5%	<0.01	<0.1%	11.79	2.4%	1.40	2.8%
	16_45	Residential	0.83	2.1%	6.42	3.2%	0.09	0.2%	0.06	0.1%	0.10	0.4%	<0.01	<0.1%	0.14	0.0%	1.31	2.6%
17_45	Residential	0.56	1.4%	4.64	2.3%	0.07	0.1%	0.01	0.0%	0.08	0.3%	0.00	0.0%	<0.01	<0.1%	0.74	1.5%	
17_46	Residential	0.48	1.2%	4.96	2.5%	0.06	0.1%	0.02	0.0%	0.06	0.3%	0.00	0.0%	<0.01	<0.1%	0.71	1.4%	
18_47	Residential	0.41	1.0%	0.04	0.0%	0.05	0.1%	0.00	0.0%	0.05	0.2%	<0.01	<0.1%	0.06	0.0%	0.47	0.9%	
2 (17m-35m)	12_42	Development under planning	0.82	2.1%	6.44	3.2%	0.08	0.2%	0.41	0.4%	0.08	0.3%	0.39	0.8%	0.00	0.0%	1.29	2.6%
	12_43	Development under planning	0.90	2.3%	0.91	0.5%	0.08	0.2%	0.42	0.4%	0.09	0.4%	0.27	0.5%	0.01	0.0%	0.85	1.7%
	13_41	Development under planning	0.60	1.5%	0.26	0.1%	0.07	0.1%	0.20	0.2%	0.07	0.3%	0.39	0.8%	0.01	0.0%	0.89	1.8%
	13_42	Development under planning	0.81	2.0%	0.36	0.2%	0.08	0.2%	0.31	0.3%	0.09	0.4%	0.43	0.9%	0.09	0.0%	1.40	2.8%
	13_43	Development under planning	0.98	2.4%	0.44	0.2%	0.10	0.2%	0.35	0.4%	0.11	0.4%	0.37	0.7%	0.25	0.0%	1.62	3.2%
	14_41	Development under planning	0.51	1.3%	0.27	0.1%	0.05	0.1%	0.06	0.1%	0.06	0.2%	0.23	0.5%	2.22	0.4%	0.68	1.4%
14_42	Development under planning	0.74	1.9%	0.31	0.2%	0.08	0.2%	0.12	0.1%	0.08	0.3%	0.34	0.7%	2.47	0.5%	1.19	2.4%	
3 (35m-55m)	12_42	Development under planning	0.84	2.1%	6.06	3.0%	0.08	0.2%	0.42	0.4%	0.09	0.3%	0.41	0.8%	0.00	0.0%	1.49	3.0%
	12_43	Development under planning	0.94	2.4%	0.51	0.3%	0.09	0.2%	0.45	0.4%	0.09	0.4%	0.29	0.6%	0.01	0.0%	0.88	1.8%
	13_41	Development under planning	0.63	1.6%	0.27	0.1%	0.07	0.1%	0.20	0.2%	0.07	0.3%	0.43	0.9%	0.02	0.0%	1.07	2.1%
	13_42	Development under planning	0.85	2.1%	0.37	0.2%	0.09	0.2%	0.34	0.3%	0.09	0.4%	0.48	1.0%	0.09	0.0%	1.75	3.5%
	13_43	Development under planning	1.06	2.6%	0.43	0.2%	0.11	0.2%	0.43	0.4%	0.11	0.5%	0.42	0.8%	0.28	0.1%	1.74	3.5%
	14_41	Development under planning	0.54	1.3%	0.28	0.1%	0.06	0.1%	0.07	0.1%	0.06	0.2%	0.16	0.3%	2.72	0.5%	0.69	1.4%
	14_42	Development under planning	0.80	2.0%	0.34	0.2%	0.08	0.2%	0.17	0.2%	0.09	0.3%	0.43	0.9%	2.55	0.5%	1.33	2.7%
15_44	G/IC	1.73	4.3%	5.27	2.6%	0.20	0.4%	0.32	0.3%	0.21	0.9%	0.43	0.9%	20.24	4.0%	3.08	6.2%	

Note:
 [1] The above predicted contribution based on PATH model results.
 [2] The significant impact levels of the respective air pollutant parameters were made reference to Table B1, Guidance Note on Specified Process Licence Applications and Assessment of the Resulting Air Quality (https://www.epd.gov.hk/epd/sites/default/files/epd/english/environmentinhk/air/guide_ref/files/GNSPLAARAQ.pdf).