

Appendix 4I

Ventilation Building and Portal Emission of Central Kowloon Route (CKR)

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CE 38/2008(HY)
Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron
Investigation, Design and Construction
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For First 50m Out of the Portal

No.	Portal ID	Total NOx (g/s)	Total RSP (g/s)	X-Coordinate	Y-Coordinate	Elevation (m)	NOx (g/s) of Each Source	Release Height (m)	Sigma Y	Sigma Z	Number of Volume Source	RSP (g/s) of Each Source
1	S3_01	0.006592	0.000305	839034.0	820404.0	0.0	0.0343	2.7	3.12	2.51	8	0.00166
	S3_02			839039.0	820399.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_03			839044.0	820395.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_04			839049.0	820391.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_05			839054.0	820386.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_06			839059.0	820382.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_07			839064.0	820377.0	0.0	0.0343	2.7	3.12	2.51		0.00166
	S3_08			839069.0	820373.0	0.0	0.0343	2.7	3.12	2.51		0.00166
2	T2NB_01	0.0004830	0.0000221	838897.0	820400.0	0.0	0.0000690	2.85	3.49	2.65	7	0.00000316
	T2NB_02			838905.0	820399.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
	T2NB_03			838912.0	820397.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
	T2NB_04			838920.0	820396.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
	T2NB_05			838927.0	820394.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
	T2NB_06			838934.0	820393.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
	T2NB_07			838942.0	820391.0	0.0	0.0000690	2.85	3.49	2.65		0.00000316
3	T2SB_01	0.0004830	0.0000221	838867.0	820366.0	0.0	0.0000690	2.85	3.49	2.65	7	0.00000316
	T2SB_02			838874.0	820364.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316
	T2SB_03			838881.0	820361.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316
	T2SB_04			838888.0	820359.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316
	T2SB_05			838896.0	820357.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316
	T2SB_06			838903.0	820354.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316
	T2SB_07			838910.0	820352.0	0.0	0.0000690	2.9	3.49	2.65		0.00000316

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For Second 50m Out of the Portal

No.	Portal ID	NOx (g/s)	RSP (g/s)	X-Coordinate	Y-Coordinate	Elevation (m)	NOx (g/s) of Each Source	Release Height (m)	Sigma Y	Sigma Z	Number of Volume Source	RSP (g/s) of Each Source
1	S3_09	0.017125	0.000830	839074.0	820368.0	0.0	0.00214	2.7	3.12	2.51	8	0.000830
	S3_10			839079.0	820364.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_11			839084.0	820359.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_12			839089.0	820355.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_13			839094.0	820350.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_14			839098.0	820346.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_15			839103.0	820341.0	0.0	0.00214	2.7	3.12	2.51		0.000830
	S3_16			839108.0	820337.0	0.0	0.00214	2.7	3.12	2.51		0.000830
2	T2NB_08	0.0002414	0.0000110	838949.0	820390.0	0.0	0.0000345	2.85	3.49	2.65	7	0.00000157
	T2NB_09			838956.0	820388.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2NB_10			838964.0	820387.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2NB_11			838971.0	820385.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2NB_12			838978.0	820384.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2NB_13			838986.0	820382.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2NB_14			838993.0	820381.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_08	0.0002414	0.0000110	838917.0	820350.0	0.0	0.0000345	2.85	3.49	2.65	7	0.00000157
	T2SB_09			838924.0	820348.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_10			838931.0	820345.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_11			838939.0	820343.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_12			838946.0	820341.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_13			838953.0	820338.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157
	T2SB_14			838960.0	820336.0	0.0	0.0000345	2.85	3.49	2.65		0.00000157

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Hourly Profile for Portal Emissions of the Project - CKR

Hour	S3		T2-Ring (NB)		T2-Ring (SB)	
	NOx	RSP	NOx	RSP	NOx	RSP
Hour 1	2.4%	2.3%	2.3%	1.9%	2.3%	1.9%
Hour 2	1.7%	1.6%	1.9%	1.3%	1.9%	1.3%
Hour 3	1.3%	1.2%	0.9%	1.3%	0.9%	1.3%
Hour 4	1.0%	0.9%	0.5%	0.6%	0.5%	0.6%
Hour 5	0.9%	0.8%	0.5%	0.6%	0.5%	0.6%
Hour 6	1.0%	1.0%	0.5%	0.6%	0.5%	0.6%
Hour 7	1.9%	1.8%	1.9%	1.3%	1.9%	1.3%
Hour 8	4.2%	4.1%	4.1%	4.5%	4.1%	4.5%
Hour 9	6.2%	6.4%	6.4%	6.5%	6.4%	6.5%
Hour 10	6.2%	6.3%	6.3%	6.5%	6.3%	6.5%
Hour 11	5.7%	5.7%	5.9%	5.8%	5.9%	5.8%
Hour 12	5.4%	5.5%	5.4%	5.1%	5.4%	5.1%
Hour 13	5.3%	5.3%	5.4%	5.1%	5.4%	5.1%
Hour 14	5.0%	5.1%	5.4%	5.1%	5.4%	5.1%
Hour 15	5.2%	5.2%	5.4%	5.1%	5.4%	5.1%
Hour 16	5.6%	5.7%	5.6%	5.1%	5.6%	5.1%
Hour 17	5.9%	5.9%	6.2%	6.5%	6.2%	6.5%
Hour 18	6.3%	6.4%	6.3%	6.5%	6.3%	6.5%
Hour 19	6.6%	6.7%	6.5%	6.5%	6.5%	6.5%
Hour 20	5.9%	6.0%	6.1%	6.5%	6.1%	6.5%
Hour 21	4.7%	4.7%	5.2%	5.1%	5.2%	5.1%
Hour 22	4.1%	4.1%	4.0%	4.5%	4.0%	4.5%
Hour 23	4.0%	3.9%	4.0%	4.5%	4.0%	4.5%
Hour 24	3.5%	3.4%	3.3%	3.2%	3.3%	3.2%