

Appendix 4K

Emission of Eastern Harbour Crossing

Appendix 4K

CE 38/2008(HY)

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron

Investigation, Design and Construction

Emission of Eastern Harbour Crossing

No.	X-Coordinate	Y-Coordinate	Base Elevation (m)	Daily NO _x Emission Rate (g/s)	Stack Height (m)	Stack Temp. (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)	Subject Premises	Daily RSP Emission Rate (g/s)
1	841695.1	817747.9	5.5	6.6630	17	298	2.10	9.00	Ventilation Building of EHC	0.3455

Hourly Profile for Ventilation Building Emissions of the Eastern Harbour Crossing

Hour	V4	
	NO _x	RSP
Hour 1	2.4%	1.9%
Hour 2	1.7%	1.4%
Hour 3	1.4%	1.1%
Hour 4	1.0%	0.8%
Hour 5	0.9%	0.7%
Hour 6	1.2%	1.6%
Hour 7	2.7%	3.4%
Hour 8	7.1%	8.8%
Hour 9	6.2%	6.0%
Hour 10	5.7%	5.0%
Hour 11	4.4%	3.4%
Hour 12	4.0%	3.4%
Hour 13	4.3%	5.1%
Hour 14	4.6%	5.1%
Hour 15	4.2%	4.5%
Hour 16	5.6%	6.0%
Hour 17	7.0%	8.3%
Hour 18	7.0%	7.6%
Hour 19	6.8%	7.2%
Hour 20	5.4%	5.3%
Hour 21	4.0%	3.6%
Hour 22	4.4%	3.5%
Hour 23	4.4%	3.4%
Hour 24	3.7%	2.9%

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No.	Portal ID	X-Coordinate	Y-Coordinate	Height (m)	Base Elevation (m)	Vol. Flow (m ³ /s)	Total RSP (g/s)	Total NOx (g/s)	Width (m)	Subject Premises
1	K1	841853.4	817848.4	10.0	3.8	--	0.148	2.856	11	Eastern Harbour Crossing

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	K1	1.904	0.099	841853.4	817848.4	3.8	0.3808	5	5.12	4.65	5	0.01975
	K2			841862.6	817854.5	3.8	0.3808	5	5.12	4.65		0.01975
	K3			841871.8	817860.5	3.8	0.3808	5	5.12	4.65		0.01975
	K4			841881.0	817866.6	3.8	0.3808	5	5.12	4.65		0.01975
	K5			841890.1	817872.7	3.8	0.3808	5	5.12	4.65		0.01975

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	K6	0.952	0.049	841899.3	817878.7	3.8	0.1904	5	5.12	4.65	5	0.00987
	K7			841908.5	817884.8	3.8	0.1904	5	5.12	4.65		0.00987
	K8			841917.7	817890.9	3.8	0.1904	5	5.12	4.65		0.00987
	K9			841926.9	817896.9	3.8	0.1904	5	5.12	4.65		0.00987
	K10			841936.0	817903.0	3.8	0.1904	5	5.12	4.65		0.00987

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Hourly Profile for Portals of the Eastern Harbour Crossing

Hour	Eastern Harbour Crossing	
	NOx	RSP
Hour 1	2.4%	1.9%
Hour 2	1.7%	1.4%
Hour 3	1.4%	1.1%
Hour 4	1.0%	0.8%
Hour 5	0.9%	0.7%
Hour 6	1.2%	1.6%
Hour 7	2.7%	3.4%
Hour 8	7.1%	8.8%
Hour 9	6.2%	6.0%
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Hour 11	4.4%	3.4%
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Hour 20	5.4%	5.3%
Hour 21	4.0%	3.6%
Hour 22	4.4%	3.5%
Hour 23	4.4%	3.4%
Hour 24	3.7%	2.9%