Works Area	Sources		Parameter		Remarks
West Kowloon Cultural District	Heavy construction Source ID: zone 1: B16	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 4.3109E-05	% days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 18% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 1: B16	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 2b: B12-B15	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 1.43697E-05	% days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 6% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 2b: B12-B15	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 3: B8, B9, B11	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 9.57977E-06	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 4% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 3: B8, B9, B11	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: Great Park: B1 - B7	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 2.39494E-06	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 1% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Great Park: B1 - B7	Percentage active area, p Emission Factor Emission Rate	1 0.85 2.69533E-08	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: B10, B17, BB3 - BB5	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	12 2.69 0.000239494		Assume 100% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: B10, B17, BB3 - BB5	Percentage active area, p Emission Factor Emission Rate	100 0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100

Description	Sources	Parameter		Emission Rate	Remarks
XRL - West	Haul road to barging	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Kowloon Barging Point (Construction	points	Road surface silt loading, sL	8.2	g/m2	Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-
Site)					3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
					sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page
					10 of Improved Activity Levels for National Emission Inventories o
					Fugitive Dust from Paved and Unpaved Roads.
		Average truck weight, W	16	tons	Average weigh of the vehicles traveling the road, extracted from SP License
		TSP emission factor, E	370.7	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day	900	veh/day	Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C
			1800	veh/day	For road HR8A-B
				veh/day	For road HR9 For road HR10A-C
				veh/day veh/day	For road HR11
			360	veh/day	For road HR12A
		No. of operation hour	12	hr	From 7:00 to 19:00, extracted from SP License of Express Rail Link (Appendix C)
		% of dust suppression	97.5	%	Extracted from SP License of Express Rail Link (Appendix C)
	Source ID: HR7A1, HR7B-C	Emission Rate			No. of truck per day: 900, extracted from SP License of Express
			1.93E-04	g/m/s (mitigated)	Rail Link (Appendix C)
	HR8A-B		3.86E-04	g/m/s (mitigated)	No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C)
	HR9		0.005.04		No. of truck per day: 1440, extracted from SP License of Express
			3.09೬-04	g/m/s (mitigated)	Rail Link (Appendix C)
	HR10A-C		2.32E-04	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C)
	HR11		1 54F-N/	g/m/s (mitigated)	No. of truck per day: 720, extracted from SP License of Express
	HR12A				Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express
	HILLEM		7.72E-05	g/m/s (mitigated)	Rail Link (Appendix C)
VDI Wast	Halaadiaa af aasila		4.075.00	/- (:4:4-4)	
	Unloading of spoils to barge		4.27E-03	g/s (mitigated)	Extract from SP License of Express Rail Link (Appendix C), assume 12 hours of operation
Point (5 Barging	Source ID: BP4-7				· ·
Points for West Kowloon Terminus					
	Paved haul road				All calculations and assumptions are extracted from SP
	outside concrete	Particle size multiplier Is	0.00	α///KT	License of Express Rail Link (Appendix C).
Batching Plant (Construction Site)	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
			45 30.8	tons	Full loading of Cement Tanker Full loading of Concrete Mixer
		TSP emission factor, E	30.8	10115	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			1199	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour % of dust suppression	12 97.5		From 7:00-19:00
	Source ID:	Sum of Emission Rate	97.5	/0	Sum of emission rate of aggregate tipper truck, cement tanker and
	ED11				concrete mixer.
	EP11		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP12		1 42F-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP13				concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			6.35E-05	g/m/s (mitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively.
	Paved haul road				All calculations and assumptions are extracted from SP
	outside concrete batching plant -	Particle size multiplier, k	3.23	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
-		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W		tons tons	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
			30.8		Full loading of Concrete Mixer
		TSP emission factor, E	1100	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
i i		1		g/VKT	Cement Tanker
		l			
		No of operation to a	1022		Concrete Mixer
		No. of operation hour % of dust suppression		hr	From 7:00-19:00
	Source ID:	-	1022 12	hr	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and
		% of dust suppression	1022 12 99.0	hr %	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP14	% of dust suppression	1022 12 99.0	hr	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
		% of dust suppression	1022 12 99.0 8.36E-06	hr %	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	EP14	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05	hr % g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP14 EP15 EP16	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05	hr % g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP14 EP15	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05	hr % g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	EP14 EP15 EP16 EP17 Paved haul road	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05	hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP
West Kowloon Terminus Concrete	EP14 EP15 EP16 EP17 Paved haul road outside concrete	% of dust suppression Sum of Emission Rate	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05 8.52E-06	hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
West Kowloon Terminus Concrete Batching Plant	EP14 EP15 EP16 EP17 Paved haul road	% of dust suppression Sum of Emission Rate Particle size multiplier, k	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05 8.52E-06	hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
West Kowloon Terminus Concrete Batching Plant (Construction Site)	EP14 EP15 EP16 EP17 Paved haul road outside concrete batching plant -	% of dust suppression Sum of Emission Rate	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05 8.52E-06	hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Unladen weight of Aggregate Tipper Truck
West Kowloon Terminus Concrete Batching Plant (Construction Site)	EP14 EP15 EP16 EP17 Paved haul road outside concrete batching plant -	% of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL	1022 12 99.0 8.36E-06 4.00E-05 1.70E-05 8.52E-06 3.23 12 14 15	hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.

Description	Sources	Parameter		Emission Rate	Remarks
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12	ľ	From 7:00-19:00
		% of dust suppression	97.5		1101117.00-13.00
	Source ID:	Sum of Emission Rate	97.5	76	
	Codice ib.	our or Emission Hate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP18		6.12F-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED 40		• • • • • • • • • • • • • • • • • • • •	g c (gare c,	concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		5.44E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP20				concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	LF 20		2.31E-05	g/m/s (mitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
	within concrete				License of Express Rail Link (Appendix C).
		Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	• .	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
, ,	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		The stage was many many many many many many many many		tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12	[·	From 7:00-19:00
		% of dust suppression	99.0		110111 7.00 10.00
	Source ID:	Sum of Emission Rate	99.0	/6	
	Codioc ID.	Cam of Emission Flate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED00				concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23				No. of vehicle of aggregate tipper truck, cement tanker and
	L1 23		3.26E-06	g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Rate	272000	ka/h	
	Source ID: EP9-			Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
	EP10	Particle size multiplier, k	0.74	_	For TSP, AP-42, section 13.2.4, 11/06 ed.
(Unloading of raw		Moisture content, M		%	Extracted from SP License of Express Rail Link (Appendix C).
materials)		Mean wind speed, U		m/s	PATH Year 2010 mean wind speed
		•			E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163	kg/Mg	(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	ka/hr	, ,
		Mitigation efficiency	99	_	Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
West Kowloon	Small Cementitious	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
		Dust extraction flow rate for	1200	m3/hr	License of Express Rail Link (Appendix C).
J	Source ID: EP5-EP8	each mixer	1300	1113/111	License of Express half Liffk (Appendix C).
(Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
					EDE OL EDO EDO OO
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate		g/s (mitigated)	An I I I I I I I I I I I I I I I I I I I
		Production rate		m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	-	0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
		Emission Data			6/06 ed.
M/ 1/2 1		Emission Rate		g/s (mitigated)	All calculations and committees are stated to the CD
	Mixer Source ID:	TSP emission factor		mg/m3 m3/hr	All calculations and assumptions are extracted from SP
		Dust extraction flow rate for No. of operation hour	1500		License of Express Rail Link (Appendix C). From 7:00 to 19:00
Batching Plant (Mixing Tower)		No. of small cement silos	2		1 10111 7 100 10 10 10
(IVIIAIIIG TOWEI)		Emission height	13		
		Emission Rate		g/s (mitigated)	
			72		•

Works Area	Sources	Parameter		Remarks	
West Kowloon Cultural District	Heavy construction Source ID: zone 1: C45-C52	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p	91.7 26 12 2.69 2.39494E-06	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 1% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Source ID: zone 1: C45-C52	Emission Factor Emission Rate	2.69533E-08		AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 2a: C37,C39, C41, C42	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 0.000107772	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 45% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 2a: C37,C39, C41, C42	Percentage active area, p Emission Factor Emission Rate	0.85 1.2129E-06		AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 2b: C26-C29, C32, C33	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 2.15545E-05 1.78902E-06	days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 9% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 2b: C26-C29, C32, C33	Percentage active area, p Emission Factor Emission Rate	0.85 2.4258E-07		AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 3: C16-C18	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 2.39494E-05	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 10% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 3: C16-C18	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: Great Park: C1-C10, C14	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 2.39494E-05	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 10% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Great Park: C1-C10, C14		2.69533E-07	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Source ID: C15, C53-C54, CB1- CB5	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	12 2.69 0.000239494 1.9878E-05	% days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 100% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: C15, C53-C54, CB1- CB5	Percentage active area, p Emission Factor Emission Rate	100 0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100

Description	Sources	Parameter		Emission Rate	Remarks
XRL - West	Haul road to barging	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Kowloon Barging Point (Construction	points	Road surface silt loading, sL	8.2	g/m2	Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-
Site)					3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
					sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page
					10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads.
					·
		Average truck weight, W	16	tons	Average weigh of the vehicles traveling the road, extracted from SP License
		TSP emission factor, E	370.7	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day	900	veh/day	Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C
			1800	veh/day	For road HR8A-B
				veh/day veh/day	For road HR9 For road HR10A-C
				veh/day	For road HR11
			360	veh/day	For road HR12A
		No. of operation hour	12	hr	From 7:00 to 19:00, extracted from SP License of Express Rail Link (Appendix C)
		% of dust suppression	97.5	%	Extracted from SP License of Express Rail Link (Appendix C)
	Source ID: HR7A2, HR7B-C	Emission Rate			No. of truck per day: 900, extracted from SP License of Express
	1111772,11175		1.93E-04	g/m/s (mitigated)	Rail Link (Appendix C)
	HR8A-B		3.86E-04	g/m/s (mitigated)	No. of truck per day: 1800, extracted from SP License of Express
	HR9				Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express
			3.09E-04	g/m/s (mitigated)	Rail Link (Appendix C)
	HR10A-C		2.32E-04	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C)
	HR11		1 54E-04	g/m/s (mitigated)	No. of truck per day: 720, extracted from SP License of Express
	LIDAGA		1.54L-04	g/iii/s (iiiitigated)	Rail Link (Appendix C)
	HR12A		7.72E-05	g/m/s (mitigated)	No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C)
			_		
XRL - West Kowloon Barging	Unloading of spoils to barge		4.27E-03	g/s (mitigated)	Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation
Point (5 Barging	Source ID: BP4-7				p.o), assume 12 mouto of operation
Points for West Kowloon Terminus					
Concrete Batching	Plant - Phase 1				
West Kowloon	Paved haul road]			All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	outside concrete batching plant -	Particle size multiplier, k	2.02	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	batching plant -	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
,	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons tons	Full loading of Cement Tanker Full loading of Concrete Mixer
		TSP emission factor, E	30.6	toris	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		,	1199	g/VKT	Aggregate Tpper Truck
			1505	g/VKT	Cement Tanker
			1022	g/VKT	Concrete Mixer
		No. of operation hour	12		From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5	%	
	000100 12.	Cam of Emission rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP11		1.005.04		No. of vehicle of aggregate tipper truck, cement tanker and
			1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP12		1.42E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP13		6 35F ₋ 05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road		0.001-00	g/iii/3 (iiiitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
		Triorage acon noight, ii	45	tons	Full loading of Cement Tanker
		TSP emission factor, E	30.8	tons	Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		TOT GITTISSIUTT TACIUT, E	1199	g/VKT	Aggregate Tpper Truck
			1505	g/VKT	Cement Tanker
		No. of operation hour	1022 12	g/VKT hr	Concrete Mixer From 7:00-19:00
		% of dust suppression	99.0		
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP14		0.065.00	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED1F		0.30 ⊑ -06	g/m/s (miligaleu)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1.70F-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP17				concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			8.52E-06	g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	outside concrete batching plant -	Particle size multiplier, k	3.23	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W	14	tons	Unladen weight of Aggregate Tipper Truck
I	I	ı	15	tons	Unladen weight of Cement Tanker

Description	Sources	Parameter		Emission Rate	Remarks
Bescription	Courtes	rarameter	12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
		No. of operation hour	391 12	g/VKT br	Concrete Mixer From 7:00-19:00
		% of dust suppression	97.5		F10111 7.00-19.00
	Source ID:	Sum of Emission Rate	07.10		Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP18		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		E 44E 0E	a /no /o /noiti a oto d\	No. of vehicle of aggregate tipper truck, cement tanker and
	ED00		5.44⊑-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP20		2.31E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	within concrete batching plant -	Particle size multiplier, k	2.22	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	batching plant -	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
,	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
		TSP emission factor, E	12	tons	Unladen weight of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		TOT CHIISSION IACION, E	457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12		From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	99.0	%	
	Source ID.	Sull of Ellission hate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21		-		No. of vehicle of aggregate tipper truck, cement tanker and
			2.73E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP23				concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
				g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon Terminus Concrete	Unloading aggregate Source ID: EP9-	Consumption Rate	272000		Extracted from SP License of Express Rail Link (Appendix C).
Batching Plant	EP10	Particle size multiplier, k	2/2 0.74	Mg/h	For TSP, AP-42, section 13.2.4, 11/06 ed.
(Unloading of raw					Extracted from Specified Processes License (checked on 13 Jan
materials)		Moisture content, M		%	2012)
		Mean wind speed, U	3.5	m/s	PATH year 2010 mean wind speed
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) (AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	kg/hr	(
		Mitigation efficiency	99	%	Extracted from Specified Processes License (checked on 13 Jan
		Emission Rate	1 64F-03	g/s (mitigated)	2012)
West Kowloon	Small Cementitious	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
	Material Silos	Dust extraction flow rate for	1300	m3/hr	License of Express Rail Link (Appendix C).
Batching Plant (Cement / PFA	Source ID: EP5-EP8	No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos			
			24 - :: 22		EDC: 04::. ED0 ED0: 00::.
		Emission height Emission Rate	21 or 22 1.08F-02	g/s (mitigated)	EP5: 21m, EP6-EP8: 22m
		Production rate		m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	Density	0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
		Emission Rate		g/s (mitigated)	6/06 ed.
West Kowloon	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
	EP1-EP2	Dust extraction flow rate for	1500	m3/hr	License of Express Rail Link (Appendix C).
Batching Plant (Mixing Tower)		each mixer No. of operation hour	12		From 7:00 to 19:00
(William)		No. of small cement silos	2	1"	Extracted from Specified Processes License (checked on 13 Jan
		Emission height Emission Rate	13 1 67F-02	g/s (mitigated)	2012)
Concrete Batching	1	LITTIOSIUTI TAIC	1.07 E-UZ	19/3 (IIIIIIgaleu)	
West Kowloon	Plant - Phase 2				
Tormina O	Paved haul road	Particle size multiplier	0.00	a//KT	All calculations and assumptions are extracted from
	Paved haul road outside concrete	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	All calculations and assumptions are extracted from AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Batching Plant - Phase 2	Paved haul road		12 38	g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden)
Batching Plant -	Paved haul road outside concrete	Road surface silt loading, sL	12 38 44	g/m2 tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden)
Batching Plant - Phase 2	Paved haul road outside concrete	Road surface silt loading, sL	12 38 44 13	g/m2 tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
Batching Plant - Phase 2	Paved haul road outside concrete	Road surface silt loading, sL Average truck weight, W	12 38 44 13	g/m2 tons tons tons g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
Batching Plant - Phase 2	Paved haul road outside concrete	Road surface silt loading, sL Average truck weight, W	12 38 44 13 1267 1471	g/m2 tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W	12 38 44 13 1267 1471 424 10	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 38 44 13 1267 1471 424 10 0	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day No. of operation hour	12 38 44 13 1267 1471 424 10 0	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr veh/hr hr	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day No. of operation hour % of dust suppression	12 38 44 13 1267 1471 424 10 0 0 12 91.0	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr veh/hr hr	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer Concrete Mixer From 7:00-19:00
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day No. of operation hour	12 38 44 13 1267 1471 424 10 0 0 12 91.0 3.17E-04	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr veh/hr hr % g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer Concrete Mixer Concrete Mixer
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day No. of operation hour % of dust suppression Emission Rate	12 38 44 13 1267 1471 424 10 0 12 91.0 3.17E-04 0.00E+00 0.00E+00	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr veh/hr hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Aggregate Tipper Truck
Batching Plant - Phase 2	Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day No. of operation hour % of dust suppression	12 38 44 13 1267 1471 424 10 0 0 12 91.0 3.17E-04 0.00E+00 0.00E+00	g/m2 tons tons tons g/VKT g/VKT g/VKT veh/hr veh/hr hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Aggregate Tipper Truck Cement Tanker

Description	Sources	Parameter		Emission Rate	Remarks
	AEP 1 AEP 2 AEP 3 AEP 6 AEP 8		1.41E-04 5.99E-05 1.65E-04 3.53E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and No. of vehicle of aggregate tipper truck, cement tanker and No. of vehicle of aggregate tipper truck, cement tanker and No. of vehicle of aggregate tipper truck, cement tanker and No. of vehicle of aggregate tipper truck, cement tanker and
Terminus Concrete		Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 38 44 13	g/VKT g/m2 tons tons	All calculations and assumptions are extracted from AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day	1471 424	g/VKT g/VKT g/VKT veh/hr	Aggregate Tpper Truck Cement Tanker Concrete Mixer Aggregate Tpper Truck
		No. of operation hour	4 10 12	veh/hr veh/hr hr	Cement Tanker Concrete Mixer From 7:00-19:00
		% of dust suppression Emission Rate	0.00E+00 0.00E+00	g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	Aggregate Tipper Truck Cement Tanker Concrete Mixer
	Source ID:	Distance Area Sum of Emission Rate	30 90	m m2	Sum of emission rate of aggregate tipper truck, cement tanker and
		Sam of Emission Hale	0.00E+00	g/m2/s (mitigated)	concrete mixer.
	AEP 4			g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 4, and 10 veh/hr respectively.
	AEP 7			g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	AEP 7		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 0 veh/hr respectively.
Terminus Concrete Batching Plant -	Paved haul road outside concrete batching plant -	Daniela I I I I		-OU/T	All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link VEP (Appendix C1).
Phase 2 (Construction Site)		Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 18 14	g/VKT g/m2 tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Unladen) Cement Tanker (Unladen)
		TSP emission factor, E	591	tons g/VKT g/VKT	Concrete Mixer Truck (Laden) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker
		No. of truck trips per day	995 10 0	g/VKT veh/hr veh/hr veh/hr	Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer
		No. of operation hour % of dust suppression Emission Rate	12 91.0 1.48E-04	hr	Concrete Mixer From 7:00-19:00 Aggregate Tipper Truck Cement Tanker
		Distance	2.49E-04 30	g/m/s (mitigated) m	Concrete Mixer
	Source ID:	Area Sum of Emission Rate	90	m2	Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	AEP 9			g/m2/s (mitigated) g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 11			g/m2/s (mitigated) g/m2/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 12			g/m2/s (mitigated)	concrete mixer are 0, 0, and 10 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 10 veh/hr respectively.
	AEP 13		9.06E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 10 veh/hr respectively.
	AEP 14		4.92E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 0 veh/hr respectively.
	AEP 17			g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 10 veh/hr respectively.
	AEP 17		1.32E-04	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 10 veh/hr respectively.
Terminus Concrete Batching Plant -	Paved haul road outside concrete batching plant -	Double 1		-OU/T	All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link VEP (Appendix C1).
Phase 2 (Construction Site)	Toward CBP	Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 38 44	g/VKT g/m2 tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden) Cement Tanker (Laden) Concrete Mixer Truck (Unladen)
		TSP emission factor, E	1267 1471	g/VKT g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker
		No. of truck trips per day	10 4 10	g/VKT veh/hr veh/hr veh/hr	Concrete Mixer Aggregate Tpper Truck Cement Tanker Concrete Mixer
		No. of operation hour % of dust suppression	12 100.0	hr	From 7:00-19:00

Description	Sources	Parameter		Emission Rate	Remarks
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
			0.00E+00	g/m/s (mitigated)	Cement Tanker
				g/m/s (mitigated)	Concrete Mixer
		Distance	30		
		Area		m2	
	Source ID:	Sum of Emission Rate	00		Sum of emission rate of aggregate tipper truck, cement tanker and
	Cource ID.	our or Emission rate			concrete mixer.
			0.00=.00	g/m2/s (mitigated)	concrete mixer.
	AEP 10		0.00⊑+00	g/m2/s (miligaled)	No. of vahiala of aggregate tipper truck, coment tanker and
	AEP 10		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	AEP 15		0.005.00	(No. of vehicle of aggregate tipper truck, cement tanker and
			0.00E+00	g/m2/s (mitigated)	concrete mixer are 10, 0, and 10 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Poto	210000	ka/b	All calculations and assumptions are extracted from
		Consumption hate			
	Source ID: PEP9-	Davida aire verdinis e		Mg/h	Environmental Review report (v. 2012Oct) of Express Rail Link
•	PEP10	Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
Phase 2 (Unloading			_		All calculations and assumptions are extracted from
of raw materials)		Moisture content, M	2	%	Environmental Review report (v. 2012Oct) of Express Rail Link
					VEP (Appendix C1).
		Mean wind speed, U	3.5	m/s	PATH year 2010 mean wind speed
		Emission Factor, E	0.002165163	ka/Ma	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Linission ractor, L	0.002103103	Rg/Wg	(AP-42, section 13.2.4, 11/06 ed.)
			0.454684312	kg/hr	
					All calculations and assumptions are extracted from
		Mitigation efficiency	50	%	Environmental Review report (v. 2012Oct) of Express Rail Link
					VEP (Appendix C1).
		Emission height	5.5	m	(PF 7
		Emission Rate		g/s (mitigated)	
West Kowloon	Cement Silos		0.000	g c (······gaice)	All calculations and assumptions are extracted from
	Source ID:				Environmental Review report (v. 2012Oct) of Express Rail Link
		Emission height	5.5	m	=
Phase 2 (Cement /		Emission Rate		g/s (mitigated)	
PFA Silos)		Linission rate	1.402 02	g/3 (milgaleu)	
1 1 A 31103)	Mixer & Weight				All calculations and assumptions are extracted from
	Hopper				Environmental Review report (v. 2012Oct) of Express Rail Link
	Source ID:				VEP (Appendix C1).
		Emission boight	5.5	m	VEP (Appendix C1).
	FEFO	Emission height			
		Emission Rate	1.98E-02	g/s (mitigated)	
West Kowloon High	wav Scheme HIJ				
	Heavy construction		8.98104E-06	g/m²/s (mitigated)	Extract from PER report of Scheme HIJ and Junction
	Source ID: AA9-12			ļ , , , , , , , , , , , , , , , , , , ,	JRD/FST/CRD (Appendix 3.3), assume 30% active area
HIJ	· · · · · · · - · -				, , , , , , , , , , , , , , , , , , ,
	Wind Erosion		8.086E-07	g/m²/s	Extract from PER report of Scheme HIJ and Junction
	Source ID: AA9-12		0.000∟-07	, , S	JRD/FST/CRD (Appendix 3.3), assume 30% active area
	OUUIUG ID. MAY-12				orten o morte (mppendix 0.0), assume 50 % active area
West Kowloon	Hoavy construction		Q QQ104E 06	a/m²/s (mitiasted)	Extract from PER report of Scheme Q (Appendix 3.2), assume
	Heavy construction		ი.ჟგ104⊑-06	g/m²/s (mitigated)	
Highway Scheme Q	Source ID: FF1-FF9				30% active area
(Interim)					
	M/:		0.000= 5=	/2/-	Entropy from DED report of Only and Onl
	Wind Erosion		8.086E-07	g/m²/s	Extract from PER report of Scheme Q (Appendix 3.2), assume
	Source ID: FF1-FF9				30% active area

Works Area	Sources		Parameter		Remarks
West Kowloon Cultural District		Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h	1 91.7 26 12	days hour	Assume 1% works area for heavy construction Water suppression 12 times a day
		Emission Factor Emission Rate	2.39494E-06	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 1: E60	Percentage active area, p Emission Factor Emission Rate	2.69533E-08		AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 2a: E51-E55, E57-E59	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor	91.7 26 12	% % days hour Mg/hectare/month of activity	Assume 6% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3
	Wind Erosion	Emission Rate Percentage active area, p	1.43697E-05 1.19268E-06	g/m²/s (unmitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
	Source ID: zone 2a: E51-E55, E57-E59	Emission Factor Emission Rate	0.85 1.6172E-07	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District		Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h	91.7 26 12	days hour	Assume 4% works area for heavy construction Water suppression 12 times a day
	E43, E45-E47, E49, E50 Wind Erosion	Emission Factor Emission Rate Percentage active area, p	9.57977E-06 7.95121E-07	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Source ID: zone 2b: E26, E28, E30-E35, E39, E41- E43, E45-E47, E49, E50	Emission Factor Emission Rate	0.85 1.07813E-07	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Source ID: zone 3: E12-E17,	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h	91.7 26 12	days hour	Assume 2% works area for heavy construction Water suppression 12 times a day
		Emission Factor Emission Rate	4.78989E-06	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 3: E12-E17, E21-E25, E27, E29	Percentage active area, p Emission Factor Emission Rate	2 0.85 5.39066E-08	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Source ID: Great Park: E1-E10, E18-E20, E36-E38,	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h	12	% days hour	Assume 0.3% works area for heavy construction Water suppression 12 times a day
	E40, E44, E48, E56, E61	Emission Rate	7.18483E-07 5.96341E-08	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Great Park: E1-E10, E18-E20, E36-E38, E40, E44, E48, E56, E61	Percentage active area, p Emission Factor Emission Rate	0.3 0.85 8.086E-09	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: E11, EB1-EB5	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h			Assume 100% works area for heavy construction Water suppression 12 times a day
		Emission Factor Emission Rate	2.69 0.000239494	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: E11, EB1-EB5	Percentage active area, p Emission Factor Emission Rate	100 0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Barging Point (Construction Site)	Haul road to barging points	Particle size multiplier, k Road surface silt loading, sL	3.23 8.2	g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of
		Average truck weight, W TSP emission factor, E No. of truck trips per day	370.7 900 1800	tons g/VKT veh/day veh/day veh/day	Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR8A-B For road HR9
			1080	veh/day veh/day	For road HR10A-C For road HR11

Works Area Sources Parameter 360 veh/day 12 hr 150	For road HR12A From 7:00 to 19:00, extracted from SP License of Express Rail Link (Appendix C) Extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 900, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Coment Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer
Source ID: HR7A3, HR7B, HR7C1 HR8A-B HR9 HR10A-C HR11 Asreging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle For Laden Vehicle West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle For Laden Vehicle Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/VKT	Link (Appendix C) Extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 900, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Source ID: HR7A3, HR7B, HR7C1 HR8A-B HR9 HR10A-C HR11 HR12A West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Concrete Batching Plant (Construction Site) Paved haul road outside concrete Batching Plant (Construction Site) For Laden Vehicle Barging Points (S Barging Points for West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle Emission Rate 4.75E-16 g/m/s (mitigated) 7.59E-16 g/m/s (mitigated) 7.59E-16 g/m/s (mitigated) 1.90E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated)	Extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 900, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Coment Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR7A3, HR7B, HR7C1 HR8A-B HR9 HR10A-C HR11 HR12A West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) HR7A3, HR7B, HR7C1 HR8A-B HR9 HR9 HR10A-C HR11 JR10A-C JR10	Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR7C1 HR8A-B HR9 HR10A-C HR11 HR12A West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) HR7C1 HR8A-B HR9 HR10A-C HR11 3.80E-16 g/m/s (mitigated) 3.80E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated)	Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR9 HR10A-C HR11 HR12A West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Paved haul road outside concrete batching plant - For Laden Vehicle For Laden Vehicle Particle size multiplier, k Road surface silt loading, sL Average truck weight, W 9.49E-16 g/m/s (mitigated) 5.70E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated) 5.70E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated)	Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR9 HR10A-C HR11 HR12A West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Paved haul road outside concrete batching plant (Construction Site) Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E g/m/s (mitigated) 4.27E-03 g/s (mitigated)	No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR10A-C HR11 HR12A Unloading of spoils to barge Source ID: BP4-7 West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle HR10A-C HR11 3.80E-16 g/m/s (mitigated) 1.90E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated)	Rail Link (Appendix C) No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
HR11 HR12A Unloading of spoils to barge Source ID: BP4-7 West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E HR11 3.80E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated) 4.27E-03 g/s (mitigated) For Laden Vehicle 4.27E-03 g/s (mitigated)	Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Comcrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Por Laden Vehicle HR12A 1.90E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated) 4.27E-03 g/s (mitigated) Paved haul road outside concrete batching plant - Road surface silt loading, sL Average truck weight, W 3.23 g/VKT Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/VKT	No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Por Laden Vehicle HR12A 1.90E-16 g/m/s (mitigated) 4.27E-03 g/s (mitigated) 4.27E-03 g/s (mitigated) Paved haul road outside concrete batching plant - Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/m/s (mitigated)	No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Comcrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
West Kowloon Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/VKT	Rail Link (Appendix C) Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle Barging Points for West Kowloon Terminus Works Paved haul road outside concrete batching plant - Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/VKT	Extract from EIA report of Express Rail Link (Appendix 12.1 p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Barging Point (5 Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle Barging Points for West Kowloon Terminus Works Paved haul road outside concrete batching plant - Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT 1505 g/VKT	p.3), assume 12 hours of operation All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Barging Points for West Kowloon Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle Barging Points for West Kowloon Terminus Works Paved haul road outside concrete batching plant - Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E Source ID: BP4-7 Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT	All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Terminus Works West Kowloon Terminus Concrete Batching Plant (Construction Site) For Laden Vehicle Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
West Kowloon Terminus Concrete Batching Plant (Construction Site) Paved haul road outside concrete batching plant - (Construction Site) For Laden Vehicle Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E 1199 g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Batching Plant (Construction Site) Batching Plant (Construction Site) For Laden Vehicle TSP emission factor, E 12 g/m2 tons tons tons tons 30.8 tons TSP emission factor, E 1199 g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
(Construction Site) For Laden Vehicle Road surface silt loading, sL Average truck weight, W 36 tons 30.8 TSP emission factor, E 1199 g/VKT	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
For Laden Vehicle Average truck weight, W 36 tons 45 tons 30.8 tons TSP emission factor, E 1199 g/VKT 1505 g/VKT	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
TSP emission factor, E 1199 g/VKT 1505 g/VKT	Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
TSP emission factor, E 1199 g/VKT 1505 g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
1199 g/VKT 1505 g/VKT	Aggregate Tpper Truck Cement Tanker Concrete Mixer
	Cement Tanker Concrete Mixer
1022 g/VKT	
No. of operation hour 12 hr % of dust suppression 97.5 %	From 7:00-19:00
Source ID: Sum of Emission Rate	Sum of emission rate of aggregate tipper truck, cement tanker and
	concrete mixer.
EP11 1.63E-04 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
EP12	concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
1.42E-04 g/m/s (mitigated)	concrete mixer are 12, 0, and 6 veh/hr respectively.
EP13 6.35E-05 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon Paved haul road	All calculations and assumptions are extracted from SP
Terminus Concrete outside concrete	License of Express Rail Link (Appendix C).
Batching Plant batching plant - Particle size multiplier, k 3.23 g/VKT Road surface silt loading, sL 12 g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
For Laden Vehicle Average truck weight, W 36 tons	Full loading of Aggregate Tipper Truck
45 tons 30.8 tons	Full loading of Cement Tanker Full loading of Concrete Mixer
TSP emission factor, E	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
1199 g/VKT	Aggregate Tpper Truck
1505 g/VKT 1022 g/VKT	Cement Tanker Concrete Mixer
No. of operation hour 12 hr	From 7:00-19:00
% of dust suppression 99.0 % Source ID: Sum of Emission Rate	Sum of emission rate of aggregate tipper truck, cement tanker and
Guill of Ethiodol Hate	concrete mixer.
EP14 8.36E-06 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
EP15	concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
4.00E-05 g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
EP16 1.70E-05 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively.
EP17	No. of vehicle of aggregate tipper truck, cement tanker and
8.52E-06 g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP
West Kowloon Paved haul road Terminus Concrete outside concrete	License of Express Rail Link (Appendix C).
Batching Plant batching plant - Particle size multiplier, k 3.23 g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site) Road surface silt loading, sL 12 g/m2 For Unladen Vehicle Average truck weight, W 14 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Unladen weight of Aggregate Tipper Truck
Average truck weight, w 14 tons 15 tons	Unladen weight of Aggregate Tipper Truck Unladen weight of Cement Tanker
12 tons	Unladen weight of Concrete Mixer
TSP emission factor, E 457 g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
497 g/VKT 491 g/VKT	Cement Tanker
391 g/VKT	Concrete Mixer
No. of operation hour	From 7:00-19:00
% of dust suppression 97.5 % Source ID: Sum of Emission Rate	Sum of omission rate of aggregate time or trials
	Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
EP18 6.12E-05 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
ED10	concrete mixer are 12, 2, and 6 veh/hr respectively.
5.44E-05 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively.
EP20 2.31E-05 g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon Paved haul road	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete within concrete	License of Express Rail Link (Appendix C).
Batching Plant batching plant - Particle size multiplier, k 3.23 g/VKT (Construction Site) Road surface silt loading, sL 12 g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
(Construction Site) Road surface silt loading, sL 12 g/m2 For Unladen Vehicle Average truck weight, W 14 tons	Unladen weight of Aggregate Tipper Truck
15 tons	Unladen weight of Cement Tanker

Works Area	Sources	Parameter			Remarks	
			12	tons	Unladen weight of Concrete Mixer	
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)	
				g/VKT	Aggregate Tpper Truck	
				g/VKT	Cement Tanker	
			391	g/VKT	Concrete Mixer	
		No. of operation hour	12	hr	From 7:00-19:00	
		% of dust suppression	99.0	%		
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.	
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.	
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.	
	EP23			g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.	
West Kowloon Terminus Concrete	Unloading aggregate Source ID: EP9-	Consumption Rate	272000	kg/h Mg/h	Extracted from SP License of Express Rail Link (Appendix C).	
Batching Plant	EP10	Particle size multiplier, k	0.74	_	For TSP, AP-42, section 13.2.4, 11/06 ed.	
(Unloading of raw materials)		Moisture content, M		%	Extracted from Specified Processes License (checked on 13 Jan 2012)	
		Mean wind speed, U	3.5	m/s	PATH year 2010 mean wind speed	
		Emission Factor E	0.002165162	ka/Ma	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)	
		Emission Factor, E	0.002165163	kg/ivig	(AP-42, section 13.2.4, 11/06 ed.)	
			0.588924442	kg/hr		
		Mitigation efficiency		%	Extracted from Specified Processes License (checked on 13 Jan 2012)	
		Emission Rate		g/s (mitigated)		
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP	
Terminus Concrete	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each	1300	m3/hr	License of Express Rail Link (Appendix C).	
Batching Plant (Cement / PFA Silos)	Source ID. EPS-EP6	No. of operation hour	12	hr	From 7:00 to 19:00	
31103)		No. of small cement silos	4			
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m	
		Emission Rate	1.08E-02	g/s (mitigated)		
	PFA weight Hopper	Production rate	160	m3/hr	All calculations and assumptions are extracted from SP	
	Source ID: EP3-EP4	Density	0.001989	mg/m3	License of Express Rail Link (Appendix C).	
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed.	
		Emission Rate	2.30E-04	g/s (mitigated)		
West Kowloon	Mixer Source ID:	TSP emission factor	40	mg/m3	All calculations and assumptions are extracted from SP	
Terminus Concrete Batching Plant	EP1-EP2	Dust extraction flow rate for each mixer		m3/hr	License of Express Rail Link (Appendix C).	
(Mixing Tower)		No. of operation hour	12	hr	From 7:00 to 19:00	
		No. of small cement silos	2		Extracted from Specified Processes License (checked on 13 Jan	
		Emission height Emission Rate	13 1 67F-02	g/s (mitigated)	2012)	
		Emiosion rate	1.07 = 02	19/0 (Illingatou)	L	

Description	Sources	Parameter		Emission Rate	Remarks
West Kowloon Highway Scheme HIJ	Heavy construction Source ID: AA9-12		8.98104E-06	g/m²/s (mitigated)	Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.3), assume 30% active area
	Wind Erosion Source ID: AA9-12		8.086E-07	g/m²/s	Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.3), assume 30% active area
West Kowloon Highway Scheme Q (Interim)	Heavy construction Source ID: FF1-FF9		8.98104E-06	g/m²/s (mitigated)	Extract from PER report of Scheme Q (Appendix 3.2), assume 30% active area
	Wind Erosion Source ID: FF1-FF9		8.086E-07	g/m²/s	Extract from PER report of Scheme Q (Appendix 3.2), assume 30% active area

Works Area	Sources		Parameter		Remarks
	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	1 91.7	%	Assume 1% works area for heavy construction Water suppression 12 times a day
	zone 2a: F27-F29,	No. of working days per month, d	26	days	water suppression 12 times a day
	F31-F35	No. of working hours per day, h Emission Factor		hour Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate	2.39494E-06	g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-07	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p		%	
	Source ID:	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	zone 2a: F27-F29, F31-F35	Emission Rate	2.69533E-08	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
	Heavy construction	Percentage active area, p	0.3 91.7		Assume 0.3% works area for heavy construction
	Source ID: zone 2b: F19, F20,	Mitigation efficiency No. of working days per month, d		days	Water suppression 12 times a day
	F23-F25	No. of working hours per day, h Emission Factor		hour	AD40 Cookies 10.0.0
		Emission Rate	7.18483E-07	Mg/hectare/month of activity g/m²/s (unmitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
			5.96341E-08	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	0.3		
	Source ID: zone 2b: F19, F20,	Emission Factor Emission Rate	0.85 8.086E-09	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
	F23-F25				, , ,
	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	0.2 91.7		Assume 0.2% works area for heavy construction Water suppression 12 times a day
	zone 3: F8-F12	No. of working days per month, d	26	days	Water suppression 12 times a day
		No. of working hours per day, h Emission Factor		hour Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			3.97561E-08	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	0.2		
	Source ID: zone 3: F8-F12	Emission Factor Emission Rate	0.85 5.39066E-09	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	17 91.7		Assume 17% works area for heavy construction Water suppression 12 times a day
Cultural District	zone4: F7	No. of working days per month, d		days	water suppression 12 times a day
		No. of working hours per day, h Emission Factor		hour Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			3.37926E-06	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	17		
	Source ID:	Emission Factor Emission Rate	0.85 4.58206E-07	Mg/hectare/year	AP42, Table 11.9-4
	zone4: F7	Emission hate	4.56206E-07	g/111-75	=0.85*1000000/(10000*365*24*60*60)*p/100
	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	0.5 91.7		Assume 0.5% works area for heavy construction Water suppression 12 times a day
	Great Park: F1-F6,	No. of working days per month, d		days	water suppression 12 times a day
	F13-F18, F21-F22, F26, F30	No. of working hours per day, h Emission Factor		hour Mg/hectare/month of activity	AP42, Section 13.2.3.3
	20,130	Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			9.93901E-08	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	0.5		
	Source ID: Great Park: F1-F6,	Emission Factor Emission Rate	0.85 1.34767E-08	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
	F13-F18, F21-F22,	Linission rate	1.54707L-00	g/111 / 3	-0.03 1000000/(10000 303 24 00 00) β/100
	F26, F30				
	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	100 91.7	%	Assume 100% works area for heavy construction Water suppression 12 times a day
Oditarai District	FB1-FB5	No. of working days per month, d			Water Suppression 12 times a day
				days	
		No. of working hours per day, h	12	hour	AP42 Section 13 2 3 3
			12 2.69 0.000239494	hour Mg/hectare/month of activity g/m²/s (unmitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
		No. of working hours per day, h Emission Factor	12 2.69 0.000239494	hour Mg/hectare/month of activity	
	Wind Erosion	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p	12 2.69 0.000239494 1.9878E-05	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) %	=2.69*1000000/(10000*d*h*60*60)*p/100
	Source ID:	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor	12 2.69 0.000239494 1.9878E-05 100 0.85	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4
	Source ID: FB1-FB5	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
XRL - West	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads.
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2 16 370.7 900 1800	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day veh/day	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR8A-B
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2 16 370.7 900 1800 1440 1080	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day veh/day veh/day veh/day	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR8A-B For road HR9 For road HR10A-C
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2 16 370.7 900 1800 1440 1080 720	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day veh/day veh/day veh/day veh/day	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR9 For road HR10A-C For road HR11
XRL - West	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of truck trips per day	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2 16 370.7 900 1800 1440 1080 720 360	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day veh/day veh/day veh/day veh/day veh/day veh/day	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR8A-B For road HR10A-C For road HR11 For road HR12A From 7:00 to 19:00, extracted from SP License of Express Rail
XRL - West Kowloon Barging Point (Construction	Source ID: FB1-FB5 Haul road to barging	No. of working hours per day, h Emission Factor Emission Rate Percentage active area, p Emission Factor Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 2.69 0.000239494 1.9878E-05 100 0.85 2.69533E-06 3.23 8.2 16 370.7 900 1800 1440 1080 720	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated) % Mg/hectare/year g/m²/s g/VKT g/m2 tons g/VKT veh/day veh/day veh/day veh/day veh/day veh/day veh/day hr	=2.69*1000000/(10000*d*h*60*60)*p/100 AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100 AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of Fugitive Dust from Paved and Unpaved Roads. Average weigh of the vehicles traveling the road, extracted from SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C For road HR8A-B For road HR10A-C For road HR11 For road HR12A

Works Area	Sources		Parameter		Remarks
WOINS AIRd	HR7A-C			g/m/s (mitigated)	No. of truck per day: 900, extracted from SP License of Express
	HR8A-B				Rail Link (Appendix C) No. of truck per day: 1800, extracted from SP License of Express
			9.49E-16	g/m/s (mitigated)	Rail Link (Appendix C)
	HR9		7.59E-16	g/m/s (mitigated)	No. of truck per day: 1440, extracted from SP License of Express Rail Link (Appendix C)
	HR10A-C		5.70E-16	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C)
	HR11		3.80E-16	g/m/s (mitigated)	No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C)
	HR12A		1.90F-16	g/m/s (mitigated)	No. of truck per day: 360, extracted from SP License of Express
				g,,o (gatos)	Rail Link (Appendix C)
XRL - West Kowloon Barging	Unloading of spoils to barge		4.27E-03	g/s (mitigated)	Extract from SP License of Express Rail Link (Appendix C), assume 12 hours of operation
	Source ID: BP4-7				assume 12 hours of operation
West Kowloon Terminus Concrete	Paved haul road outside concrete				All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
		, wordgo adok worgini, w	45	tons	Full loading of Cement Tanker
		No. of truck trips per day		tons veh/hr	Full loading of Concrete Mixer Aggregate Tpper Truck
				veh/hr	Cement Tanker
		No. of operation hour		veh/hr hr	Concrete Mixer From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5		
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP11		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP12		1.42E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP13		6.35E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road		0.002 00	g/ii/3 (iiiligatea)	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete	Particle size multiplier, k	2.02	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Batching Flant	31	Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W		tons tons	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
		TCD emission factor. E		tons	Full loading of Concrete Mixer
		TSP emission factor, E		g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
				g/VKT g/VKT	Cement Tanker Concrete Mixer
		No. of operation hour % of dust suppression		hr	From 7:00-19:00
	Source ID:	Sum of Emission Rate	99.0	/0	Sum of emission rate of aggregate tipper truck, cement tanker and
	EP14		0.005.00		concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
	EP15		8.36E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			4.00E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1.70E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		8.52E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	outside concrete batching plant -	Particle size multiplier, k	3.23	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	. o. omadon venicle	Average truck weight, W	15	tons tons	Unladen weight of Aggregate Tipper Truck Unladen weight of Cement Tanker
		TSP emission factor, E	12	tons	Unladen weight of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		. 3. 333.017 (4010), E		g/VKT	Aggregate Tpper Truck
				g/VKT g/VKT	Cement Tanker Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5	%	Sum of emission rate of aggregate tipper truck coment tenter and
					Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP18		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		5.44E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP20				concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road		∠.31E-U5	g/m/s (mitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	within concrete	D		A // CT	License of Express Rail Link (Appendix C).
Batching Plant (Construction Site)	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
,	For Unladen Vehicle	Average truck weight, W	14	tons	Unladen weight of Aggregate Tipper Truck
				tons tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
				g/VKT	Concrete Mixer

Works Area	Sources		Parameter		Remarks
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	99.0	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23			g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
	Unloading aggregate	Consumption Rate	272000	kg/h	Extracted from SP License of Express Rail Link (Appendix C).
	Source ID: EP9-		272	Mg/h	Extracted from SF Elderise of Express Hall Link (Appendix O).
	EP10	Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
(Unloading of raw		Moisture content, M	2	%	Extracted from SP License of Express Rail Link (Appendix C).
materials)		Mean wind speed, U	3.5	m/s	PATH Year 2010 mean wind speed
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) (AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	kg/hr	
		Mitigation efficiency	99	%	Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
Batching Plant	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
(Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22	!	EP5: 21m, EP6-EP8: 22m
		Emission Rate	1.08E-02	g/s (mitigated)	
	PFA weight Hopper	Production rate	160	m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	Density	0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed.
		Emission Rate	2.30E-04	g/s (mitigated)	
	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
	EP1-EP2	Dust extraction flow rate for each		m3/hr	License of Express Rail Link (Appendix C).
Batching Plant		No. of operation hour	12	hr	From 7:00 to 19:00
(Mixing Tower)		No. of small cement silos Emission height	13		
		Emission Rate		g/s (mitigated)	
West Kowloon	Heavy construction	Percentage active area, p		%	Assume 1% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7		Water suppression 12 times a day
	zone 1: F36	No. of working days per month, d		days	
		No. of working hours per day, h		hour	
		Emission Factor			AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-07	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p		%	
	Source ID:	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	zone 1: F36	Emission Rate	2.69533E-08	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100

Works Area	Sources		Parameter		Remarks
West Kowloon Cultural District	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	3 91.7	%	Assume 3% works area for heavy construction Water suppression 12 times a day
Suiturui Distinut	Zone 2a: H27-H30	No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	26 12 2.69 7.18483E-06	days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Zone 2a: H27-H30	Percentage active area, p Emission Factor Emission Rate	-	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 2b: H21-H26	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h	91.7 26	% % days hour	Assume 1% works area for heavy construction Water suppression 12 times a day
		Emission Factor Emission Rate	2.69 2.39494E-06	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 2b: H21-H26	Percentage active area, p Emission Factor Emission Rate	2.69533E-08		AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 3: H31-H34	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h			Assume 0.2% works area for heavy construction Water suppression 12 times a day
		Emission Factor Emission Rate	2.69 4.78989E-07	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 3: H31-H34	Percentage active area, p Emission Factor Emission Rate	0.2 0.85 5.39066E-09	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	91.7		Assume 4% works area for heavy construction Water suppression 12 times a day
	zone 4: H9-H12, H35	No. of working days per month, d No. of working hours per day, h	12	days hour	
		Emission Factor Emission Rate	9.57977E-06	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 4: H9-H12, H35	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 5: H3, H17,	Percentage active area, p Mitigation efficiency No. of working days per month, d	91.7	% % days	Assume 2% works area for heavy construction Water suppression 12 times a day
	H20	No. of working days per month, a No. of working hours per day, h Emission Factor Emission Rate	12 2.69 4.78989E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 5: H3, H17, H20	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: Great Park: H1-H2,	Percentage active area, p Mitigation efficiency No. of working days per month, d	91.7 26	days	Assume 2% works area for heavy construction Water suppression 12 times a day
	H4-H8, H13-H16, H18-H19, H36-H45	No. of working hours per day, h Emission Factor Emission Rate	2.69 4.78989E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Great Park: H1-H2, H4-H8, H13-H16, H18-H19, H36-H45	Percentage active area, p Emission Factor Emission Rate	2 0.85 5.39066E-08	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: HB1-HB5	Percentage active area, p Mitigation efficiency No. of working days per month, d	100 91.7 26		Assume 100% works area for heavy construction Water suppression 12 times a day
		No. of working hours per day, h Emission Factor Emission Rate	12 2.69 0.000239494	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: HB1-HB5	Percentage active area, p Emission Factor Emission Rate	100 0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Terminus Concrete	Paved haul road outside concrete			AUCT	All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Batching Plant (Construction Site)	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
			30.8	tons tons	Full loading of Cement Tanker Full loading of Concrete Mixer
		No. of truck trips per day		veh/hr veh/hr	Aggregate Tpper Truck Cement Tanker

Works Area	Sources		Parameter		Remarks
			6	veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
	Cause - ID	% of dust suppression	97.5	%	Come of amination mate of a second of
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	CBH1-CBH4				No. of vehicle of aggregate tipper truck, cement tanker and
			1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	Paved haul road				All calculations and assumptions are extracted from SP
	outside concrete	Deuticle cine acultindies I	0.00	- AUCT	License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
			30.8	tons	Full loading of Concrete Mixer
		TSP emission factor, E	1100	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of truck trips per day		veh/hr	Aggregate Tpper Truck
				veh/hr veh/hr	Cement Tanker Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	99.0		
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
	Source ID:	Sum of Emission Rate	0.00E+00	g/m/s (mitigated)	Concrete Mixer Sum of emission rate of aggregate tipper truck, cement tanker and
	Source ID.	out of Emission rate			concrete mixer.
	EP14		8 365 06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	50.5		0.30⊏-06	g/m/a (mingaleu)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP16				concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			1.70E-05	g/m/s (mitigated)	concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		8 E3E 06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			0.J2L-00	g/III/S (IIIIIgateu)	concrete mixer are 0, 0, and 3 veh/hr respectively.
	Paved haul road outside concrete				All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	pareg plant	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E	457	- AUCT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	97.5		1101117.00-13.00
	Source ID:	Sum of Emission Rate	07.0	70	Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4				No. of vehicle of aggregate tipper truck, cement tanker and
			6.12E-05	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
	within concrete batching plant -	Partiala aiza multipliar k	2.02	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		and age trees reigns, in		tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer Extracted from Specified Processes License (checked on 13 Jan
		No. of truck trips per day			2012)
			0	veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
			0	veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	99.0		
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
	Caura a ID.	Com of Emission Date	0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21				No. of vehicle of aggregate tipper truck, cement tanker and
			2.73E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 52F-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED00		1.521-05	grino (imagatou)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Rate	272000	ka/h	
	Source ID: EP9			Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Batching Plant		Particle size multiplier, k	0.74	_	For TSP, AP-42, section 13.2.4, 11/06 ed.
(Unloading of raw		Moisture content, M	2	%	Extracted from SP License of Express Rail Link (Appendix C).
materials)		Mean wind speed, U	3.5	m/s	PATH Year 2010 mean wind speed
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		, -			(AP-42, section 13.2.4, 11/06 ed.)
		Mitigation efficiency	0.588924442 99	_	Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	Extracted from or Election of Express that Ellik (Appelluix O).
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Works Area	Sources		Parameter		Remarks
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
(Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate	1.08E-02	g/s (mitigated)	
	PFA weight Hopper	Production rate	160	m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	Density	0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed.
		Emission Rate	2.30E-04	g/s (mitigated)	
West Kowloon	Mixer Source ID:	TSP emission factor	40	mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete	EP1-EP2	Dust extraction flow rate for each	1500	m3/hr	License of Express Rail Link (Appendix C).
Batching Plant		No. of operation hour	12	hr	From 7:00 to 19:00
(Mixing Tower)		No. of small cement silos	2		
·		Emission height	13		
		Emission Rate	1.67E-02	g/s (mitigated)	

Works Area	Sources		Parameter		Remarks
West Kowloon		Percentage active area, p	6	%	Assume 6% works area for heavy construction
Cultural District	Source ID: zone 2a: I25	Mitigation efficiency No. of working days per month, d	91.7		Water suppression 12 times a day
	zone 2a: 125	No. of working days per month, d		days hour	
		Emission Factor	2.69	Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
				, , ,	
	Wind Erosion Source ID:	Percentage active area, p Emission Factor	_	% Mg/hectare/year	AP42. Table 11.9-4
	zone 2a: I25	Emission Rate	1.6172E-07		=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Heavy construction	Percentage active area, p	1	%	Assume 1% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency No. of working days per month, d	91.7	% days	Water suppression 12 times a day
	zone 2b: I22-I24	No. of working hours per day, h	12	hour	
		Emission Factor Emission Rate	2.69 2.39494E-06	Mg/hectare/month of activity g/m²/s (unmitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-07	g/m²/s (mitigated)	, , , , , , , , , , , , , , , , , , , ,
	Wind Erosion	Percentage active area, p		%	IBIO T. I. MO.
	Source ID: zone 2b: I22-I24	Emission Factor Emission Rate	0.85 2.69533E-08	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Heavy construction	Percentage active area, p		%	Assume 2% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7	%	Water suppression 12 times a day
	zone 4: I10-I12	No. of working days per month, d No. of working hours per day, h		days hour	
		Emission Factor Emission Rate	2.69	Mg/hectare/month of activity g/m²/s (unmitigated)	AP42, Section 13.2.3.3
		Emission rate	3.97561E-07	g/m²/s (unifilitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion	Percentage active area, p	2	%	
	Source ID:	Emission Factor Emission Rate	0.85 5.39066E-08	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
	zone 4: I10-I12				
West Kowloon Cultural District	Heavy construction Source ID:	Percentage active area, p Mitigation efficiency	1 91.7	% %	Assume 1% works area for heavy construction Water suppression 12 times a day
Canarar Biotriot	zone 5: I3, I18, I21	No. of working days per month, d No. of working hours per day, h	26	days hour	, ,
		Emission Factor	2.69	Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate	2.39494E-06 1.9878E-07	g/m²/s (unmitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion	Percentage active area, p		%	
	Source ID:	Emission Factor	0.85	Mg/hectare/year	AP42, Table 11.9-4
	zone 5: I3, I18, I21	Emission Rate	2.69533E-08	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon		Percentage active area, p Mitigation efficiency	2 91.7	%	Assume 2% works area for heavy construction
Cultural District	Source ID: Great Park: I1-I2, I4-	No. of working days per month, d	26	days	Water suppression 12 times a day
	19, 113-117, 119-120	No. of working hours per day, h Emission Factor		hour Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate	4.78989E-06	g/m²/s (unmitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID:	Percentage active area, p Emission Factor		% Mg/hectare/year	AP42, Table 11.9-4
	Great Park: I1-I2, I4-	Emission Rate	5.39066E-08	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	I9, I13-I17, I19-I20 Heavy construction	Percentage active area, p	100	%	Assume 100% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency No. of working days per month, d	91.7	% days	Water suppression 12 times a day
	IB3-IB5	No. of working hours per day, h	12	hour	
		Emission Factor Emission Rate	2.69 0.000239494	Mg/hectare/month of activity g/m²/s (unmitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
				g/m²/s (mitigated)	, , , , , , , , , , , , , , , , , , ,
	Wind Erosion	Percentage active area, p	100		
	Source ID: IB3-IB5	Emission Factor Emission Rate	0.85 2.69533E-06	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Paved haul road		31223_ 30		All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant (Construction Site)	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
		Two rago track worght, 11	45	tons	Full loading of Cement Tanker
		No. of truck trips per day		tons veh/hr	Full loading of Concrete Mixer Aggregate Tpper Truck
		nto. or truck trips per day		veh/hr	Cement Tanker
				veh/hr	Concrete Mixer
		No. of operation hour % of dust suppression	12 97.5	hr %	From 7:00-19:00
	Source ID:	Sum of Emission Rate	97.5		Sum of emission rate of aggregate tipper truck, cement tanker and
	CBH1-CBH4				concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
N/			1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon Terminus Concrete	Paved haul road outside concrete				All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
	. 5. 24657 \$611010		45	tons	Full loading of Cement Tanker
		TSP emission factor, E	30.8	tons	Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT g/VKT	Cement Tanker Concrete Mixer
l		No. of truck trips per day		veh/hr	Aggregate Tpper Truck

Works Area	Sources		Parameter		Remarks
vvorks Area	Sources			veh/hr	Cement Tanker
			0	veh/hr	Concrete Mixer
		No. of operation hour	12 99.0	hr o/	From 7:00-19:00
		% of dust suppression Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
			8.36E-06	g/m/s (mitigated)	Cement Tanker
	Course ID:	Sum of Emission Data	0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP14		8 36E 06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			0.30⊑-00	g/III/s (IIIIIgated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		4 705 05		No. of vehicle of aggregate tipper truck, cement tanker and
			1.70E-05	g/m/s (mitigated)	concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		8.52E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road				concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP
	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	For Unladen Vehicle	Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Offiader Verlicie	Average truck weight, W	14	tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
		TSP emission factor. E	12	tons	Unladen weight of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		13F emission factor, E	457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road			- /	concrete mixer are 12, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
	within concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	For Unladen Vehicle	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Offiaden Verlicie	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
		TCD emission factor. F	12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E	457	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of truck tring par day			Extracted from Specified Processes License (checked on 13 Jan
		No. of truck trips per day			2012)
			_	veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
		No. of an austion boom	_	veh/hr	Concrete Mixer
		No. of operation hour % of dust suppression	99.0	hr o/	From 7:00-19:00
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
		Zimoolon Hato		g/m/s (mitigated)	Cement Tanker
				g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP21		2 73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			2.73L-00	g/III/S (IIIIIgated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP23				concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
				g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Rate	272000	_	Extracted from SP License of Express Rail Link (Appendix C).
Terminus Concrete Batching Plant	Source ID: EP9	Demision single street to the		Mg/h	
(Unloading of raw		Particle size multiplier, k Moisture content, M	0.74	%	For TSP, AP-42, section 13.2.4, 11/06 ed. Extracted from SP License of Express Rail Link (Appendix C).
materials)		Mean wind speed, U	_	m/s	PATH Year 2010 mean wind speed
		•			E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163		(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442		
		Mitigation efficiency		%	Extracted from SP License of Express Rail Link (Appendix C).
West Kowloon	Small Cementitious	Emission Rate TSP emission factor		g/s (mitigated) mg/m3	
	Material Silos	Dust extraction flow rate for each			All calculations and assumptions are extracted from SP
Batching Plant	Source ID: EP5-EP8	mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
(Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate		g/s (mitigated)	
		Production rate	160	m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	1	0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
		Emission Rate		g/s (mitigated)	6/06 ed.
West Kowloon	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete	EP1-EP2	Dust extraction flow rate for each	1500	m3/hr	License of Express Rail Link (Appendix C).
Batching Plant		No. of operation hour		hr	From 7:00 to 19:00
(Mixing Tower)		No. of small cement silos Emission height	13		
ı	I	1 Indoor Holghi	13	1	ı

Works Area	Sources	Parameter			Remarks
		Emission Rate	1.67E-02	g/s (mitigated)	
West Kowloon Cultural District	Heavy construction Source ID: zone 3: I26-I29	Percentage active area, p Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	91.7 26 12 2.69 0	% % days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Assume 0% works area for heavy construction Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 1: I26-I29	Percentage active area, p Emission Factor Emission Rate	0.85	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100

Works Area	Sources		Parameter		Remarks
West Kowloon	Heavy construction	Percentage active area, p		%	Assume 5% works area for heavy construction
Cultural District	Source ID: zone 2b: J22-J24	Mitigation efficiency No. of working days per month, d No. of working hours per day, h	91.7 26		Water suppression 12 times a day
		Emission Factor Emission Rate	2.69 2.39494E-06	Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 2b: J22-J24	Percentage active area, p Emission Factor Emission Rate	1 0.85 2.69533E-08	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 4: J10-J12	Percentage active area, p Mitigation efficiency No. of working days per month, d	91.7	% % days	Assume 2% works area for heavy construction Water suppression 12 times a day
	JB3-JB5	No. of working hours per day, h Emission Factor Emission Rate	12 2.69 4.78989E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 4: J10-J12 JB3-JB5	Percentage active area, p Emission Factor Emission Rate		% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: zone 5: J3, J18, J21	Percentage active area, p Mitigation efficiency No. of working days per month, d	0.4 91.7 26		Assume 0.4% works area for heavy construction Water suppression 12 times a day
		No. of working hours per day, h Emission Factor Emission Rate	2.69 9.57977E-07	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: zone 5: J3, J18, J21	Percentage active area, p Emission Factor Emission Rate	0.4 0.85 1.07813E-08	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon Cultural District	Heavy construction Source ID: Great Park: J1-J2,	Percentage active area, p Mitigation efficiency No. of working days per month, d	91.7	% % days	Assume 1% works area for heavy construction Water suppression 12 times a day
	J4-J9, J13-J17, J19, J20	No. of working hours per day, h Emission Factor Emission Rate	12 2.69 2.39494E-06	hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	Wind Erosion Source ID: Great Park: J1-J2, J4-J9, J13-J17, J19,	Percentage active area, p Emission Factor Emission Rate	1 0.85 2.69533E-08	% Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction
Cultural District	Source ID: JB1-JB5	Mitigation efficiency No. of working days per month, d No. of working hours per day, h Emission Factor Emission Rate	12 2.69 0.000239494	% days hour Mg/hectare/month of activity g/m²/s (unmitigated) g/m²/s (mitigated)	Water suppression 12 times a day AP42, Section 13.2.3.3 =2.69*1000000/(10000*d*h*60*60)*p/100
	M/: 15				
	Wind Erosion Source ID: JB1-JB5	Percentage active area, p Emission Factor Emission Rate	100 0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete	Partiala siza multipliar k	2.22	a////T	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Batching Plant (Construction Site)	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
,	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
		No. of truck trips per day		tons veh/hr	Full loading of Concrete Mixer Aggregate Tpper Truck
		The or agent alpo per day		veh/hr	Cement Tanker
			6	veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5	%	Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBH1-CBH4		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	outside concrete batching plant -	Particle size multiplier, k	2 22	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
-atoming ridill		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons tons	Full loading of Cement Tanker Full loading of Concrete Mixer
		TSP emission factor, E			E=k x (sL) ⁰ 0.91x (W) ¹ .02 (AP-42, section 13.2.1, 01/11 ed.)
			1199	g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
			1022	g/VKT	Concrete Mixer
		No. of truck trips per day	0	veh/hr	Aggregate Topler Truck
				veh/hr veh/hr	Cement Tanker Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression Emission Rate	99.0 0.00F±00	% g/m/s (mitigated)	Aggregate Tipper Truck
			8.36E-06	g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	Cement Tanker Concrete Mixer

Works Area	Sources		Parameter		Remarks
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
	EP14				concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
	LF 14		8.36E-06		concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	a/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED.40		4.00L-03	, , ,	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1.70E-05		No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		0.505.00		No. of vehicle of aggregate tipper truck, cement tanker and
			8.52E-06	g/m/s (miligated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	outside concrete batching plant -	Particle size multiplier, k	3 23		License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	batoring plant	Road surface silt loading, sL			AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W			Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
		TSP emission factor, E	12	tons	Unladen weight of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		13F emission factor, L	457		Aggregate Tpper Truck
				1 =	Cement Tanker
					Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4		6.12E-05		No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road				concrete mixer are 12, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
	within concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)		Road surface silt loading, sL		1~	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457		Aggregate Tpper Truck
				10	Cement Tanker
			391	•	Concrete Mixer
		No. of truck trips per day			Extracted from Specified Processes License (checked on 13 Jan
			0		2012) Aggregate Tpper Truck
					Cement Tanker
				veh/hr	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	99.0	%	
		Emission Rate			Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
	0	Come of Emission Bata	0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
	ED04				concrete mixer.
	EP21		2.73E-06		No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 505 05		No. of vehicle of aggregate tipper truck, cement tanker and
			1.52E-U5	g/m/s (miligaled)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Unloading aggregate	Consumption Rate	272000	ka/h	concrete mixer are 0, 0, and 3 veh/hr respectively.
Terminus Concrete	Source ID: EP9	Consumption Flate		Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Batching Plant		Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
(Unloading of raw		Moisture content, M			Extracted from SP License of Express Rail Link (Appendix C).
materials)		Mean wind speed, U	3.5		PATH Year 2010 mean wind speed
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
			0.588924442	ka/hr	(AP-42, section 13.2.4, 11/06 ed.)
		Mitigation efficiency	99		Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate	1.64E-03	g/s (mitigated)	(
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each	1300	m3/hr	License of Express Rail Link (Appendix C).
(Cement / PFA	COURSE ID. LF3-EF0	No. of operation hour	12	hr	From 7:00 to 19:00
Silos)					
		No. of small cement silos	4		
		Emission height Emission Rate	21 or 22		EP5: 21m, EP6-EP8: 22m
	PFA weight Hopper	Production rate		g/s (mitigated) m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4		0.001989		License of Express Rail Link (Appendix C).
		Emission Factor			Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
			2.60E-03		6/06 ed.
147	lati o	Emission Rate		g/s (mitigated)	All coloulations and the state of the state
West Kowloon Terminus Concrete	Mixer Source ID: EP1-EP2	TSP emission factor Dust extraction flow rate for each		mg/m3 m3/hr	All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Batching Plant	LF -LF2	No. of operation hour		hr	From 7:00 to 19:00
(Mixing Tower)		No. of small cement silos	2		
·		Emission height	13		
	I	Emission Rate	1.6/E-02	g/s (mitigated)	

Works Area	Sources		Parameter		Remarks
West Kowloon	Heavy construction	Percentage active area, p	1	%	Assume 1% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7		Water suppression 12 times a day
	Zone 2b: K4-K6, K11- K12	No. of working days per month, d No. of working hours per day, h		days hour	
	1412	Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-07	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	1	%	
	Source ID:	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	zone 2b: K4-K6, K11 K12	Emission Rate	2.69533E-08	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
	KIZ				
West Kowloon	Heavy construction	Percentage active area, p	0.3	%	Assume 0.3% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7		Water suppression 12 times a day
	zone 4: K7-K10	No. of working days per month, d No. of working hours per day, h		days hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			5.96341E-08	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	0.3		
	Source ID:	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	zone 4: K7-K10	Emission Rate	8.086E-09	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Heavy construction	Percentage active area, p	0.2	%	Assume 0.2% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7		Water suppression 12 times a day
	zone 5: K1-K3	No. of working days per month, d No. of working hours per day, h		days hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			3.9/561E-08	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	0.2		
	Source ID:	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	zone 5: K1-K3	Emission Rate	5.39066E-09	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction
Cultural District	Source ID:	Mitigation efficiency	91.7		Water suppression 12 times a day
	KB3-KB5	No. of working days per month, d No. of working hours per day, h	26 12	days hour	
		Emission Factor	2.69	Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878⊑-05	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	100		
	Source ID: KB3-KB5	Emission Factor Emission Rate	0.85 2.69533E-06	Mg/hectare/year	AP42, Table 11.9-4
	KB3-KB3	Emission nate	2.09555E-00	lg/111-75	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District Concrete Batching	outside concrete batching plant -	Particle size multiplier, k	2.02	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	batching plant -	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Site)	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
				tons tons	Full loading of Connects Miser
		No. of truck trips per day		veh/hr	Full loading of Concrete Mixer Aggregate Tpper Truck
		inor or maon impo por day		veh/hr	Cement Tanker
			6	veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5	%	Sum of emission rate of aggregate tipper truck, cement tanker and
	Cource ID.	Curi of Emission Hale			concrete mixer.
	CBH1-CBH4		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road			, , , , , , , , , , , , , , , , , , , ,	concrete mixer are 12, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
			45	tons	Full loading of Cement Tanker
		TOD aminator (cot = 5	30.8	tons	Full loading of Concrete Mixer
		TSP emission factor, E	1100	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
			1505	g/VKT	Cement Tanker
		No. of two of twine war and a		g/VKT	Concrete Mixer
		No. of truck trips per day		veh/hr veh/hr	Aggregate Tpper Truck Cement Tanker
			0	veh/hr	Concrete Mixer
		No. of operation hour		hr o/	From 7:00-19:00
		% of dust suppression Emission Rate	99.0 0.00E+00	% g/m/s (mitigated)	Aggregate Tipper Truck
			8.36E-06	g/m/s (mitigated)	Cement Tanker
	Course ID:	Cum of Emission Dete	0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP14		8 385-08	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP15				concrete mixer are 0, 2, and 0 veh/hr respectively.
	LFIU		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1 705-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
I	1		1.70L-00		concrete mixer are 0, 0, and 6 veh/hr respectively.

Discrete Beauthy Section Section	Works Area	Sources		Parameter		Remarks
New Norway The Parent Park reserved by Character September 19 (19 Parents September 19 Paren		EP17		8.52E-06	g/m/s (mitigated)	
Control Control Series Control Fig. 1 (Control Fig. 1) (Control Fig. 1) (Control Fig. 2) (Control	West Kowloon	Paved haul road				
Part (Communication Register) For Unitation Winting For Unitation For Unitation Winting For Unitation Winting For Unitation For Unitation Wint						
For Uniden Winds Average trush weight, W 11 flow 15 lows		batching plant -	•			
TSP emission batton, E		For Unladon Vobiala			_	
TSP emission factor. E TSP em	Site)	For Uniagen Venicle	Average truck weight, W			
Secure ID Secu						
No. of operation hour 12 pt 12			TSP emission factor, E			
No. of operation hour 15 of dust appression Survive Dr. Survive Dr			·	457	g/VKT	Aggregate Tpper Truck
No. of coverant hour special properties. Concern Discover				491	g/VKT	Cement Tanker
Source D. Particle size multipler, k Bood source plants and 12.2 and a verter recording. Particle size multipler, k Bood source plants and 12.2 and a verter recording. Particle size multipler, k Bood source D. Source D. TSP emission factor, E 449 (aVKT Appeals D.) To emission factor, E 449 (aVKT Appeals D.) To emission factor, E 540 (aVKT Appeals D.) To emission f				391	g/VKT	Concrete Mixer
Source ID. Source			No. of operation hour	12	hr	From 7:00-19:00
CBX1 CBX4 Wast Kowoon Terminus Concrete Mainty Pour Exert Control cable Mainty Pour Exert Control Mainty Pour Mainty Pour Mainty Pour No. of Insk Interpretation No. of Insk				97.5	%	
West Kovition Saurcei ID: Sau		Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
West Kowton Family Control Family Co						
West Kowloon Francis Concrete Francis Control		CBX1-CBX4		6.12E-05	g/m/s (mitigated)	
Terminal Concrete Backhing Plater Construction Stell For Unlation Variotic For Unlation For Unlation Variotic For Unlation For Unlati	West Kowloon	Paved haul road				
Earthing Parts Governorusing Parts Governorusing Parts For Unladern Vehicle For Unla						
For Unladen Vehicle Average truck weight, W TSP emission factor, E TSP emission factor TSP e			Particle size multiplier, k	3.23	g/VKT	
TSP emission factor, E TSP em	(Construction Site)		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
TSP emission factor, E TSP em		For Unladen Vehicle	Average truck weight, W			
TSP emission factor, E Application Comment Tanker						
No. of truck trips per day			TSP emission factor. F	12	tons	
West Kowloon Work Kowloon Cultural District Current # Work Kowloon PAA weight Hooper Source ID: P3 weight Hooper Source ID: P3 weight Hooper Source ID: P4 weight Hooper PAR			Tor emission factor, E	457	a/VKT	
No. of truck trips per day No. of truck trips per day O vehirir 2 vehirir 3 vehirir 3 vehirir 4 coment Tanker Coment Mare From 7:00-19:00 No. of operation hour 5 vic dust suppression Emission Rate O 0E-10 gimls (mitgated) O 0E-10 gimls (mitgated) O 0E-10 gimls (mitgated) O 10E-10 gim					_	
No. of truck trips per day No. of truck trips per day O verhin' 2 verhin' O verhin' 2 verhin' O verhin' 2 verhin' O verhin' 1 hr From 700-1900 Emission Rate P21 EP21 EP22 Sum of Emission Rate EP21 EP22 P23 Agergate Tope Truck Comment Tarsker O concrete Mixer Comment Tarsker No. of verbic et agergate lipper truck, cement tarske and commen					•	
No. of units in particular 2 20 20 2 2 2 2 2 2			No. of the state of the		9,	
No. of operation hour 7.5 of dust suppression Pate 12 hr 7 concrete Mixer Prom 7:00-19:00 9m/s (mitigated) 2.73E-06 g/m/s (mitiga			No. of truck trips per day			· · · · · · · · · · · · · · · · · · ·
No. of operation hour % of dust suppression Emission Rate Source ID: Sum of Emission Rate EP21 EP22 EP22 EP22 EP23 West Kowloon Cultural Detrict Concrete Mixer John Mean wind speed, U Emission Fate Consumption Rate 278E-06 g /m's (mitigated) 2.78E-06 g /m's (mitigated) 2.78E-06 g /m's (mitigated) 2.78E-06 g /m's (mitigated) 2.78E-06 g /m's (mitigated) 3.28E-06 g /m's (mitigated) 3.				0	veh/hr	Aggregate Tpper Truck
No. of operation hour % of dust suppression 275-66 g s/m/s (miligated) 2.756-69 g/m/s (miligated) 2.75						Cement Tanker
Source ID: Sum of Emission Rate 0.00E-00 g/m/s (miligated) 2.73E-06 g/m/s (miligated) 2.73E-07				0	veh/hr	
Emission Rate Source ID: Sum of Emission Rate EP21 EP21 EP22 EP22 EP22 EP23 Aggregate Tipper Truck Cement Tanker Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirl respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0.2 and 0 vehirlr respectively. No. of vehicle of aggregate tipp			-			From 7:00-19:00
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Mean wind speed, U Emission Factor, E 0.002165163 kg/Mg 0.588924442 kg/hr 99 % Extracted from SP License of Express Rail Link (Appendix C). West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) Mitigation efficiency Emission Factor Emission factor Dust waterial Silos Mitigation efficiency Emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor Dust waterial Silos TSP emission factor TSP emission factor Dust waterial Silos TSP emission factor TSP emissi	Plant (Unloading of		• •		0/.	
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Cultural District Concrete Batching Plant (Cement / PFA Silos) Material Silos Source ID: EP5-EP8 Material Silos Source ID: EP5-EP8 Material Silos Source ID: EP5-EP8 No. of operation hour No. of small cement silos Emission height Emission Rate PFA weight Hopper Source ID: EP3-EP4 West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) West (Mixing Tower) Material Silos Source ID: EP5-EP8 Material Silos Dust extraction flow rate for each mixer 1300 Material Silos Source ID: EP5-EP8 No. of operation hour No. of small cement silos Emission Rate 1300 Material Silos Source ID: EP5-EP8 No. of operation hour No. of small cement silos No. of operation hour No. of small cement h	West Kowloon	Small Cementitious		+		
Describe Batching Plant (Cement / PFA Silos) Source ID: EP3-EP8 Inixer No. of operation hour No. of small cement silos 4 Emission height 21 or 22 Emission Rate 1.08E-02 g/s (mitigated) PFA weight Hopper Source ID: EP3-EP4 Production rate Density Emission Factor 2.60E-03 kg/Mg Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) Wind Cement / No. of operation hour 12 hr From 7:00 to 19:00 Emission hour 12 hr From 7:00 to 19:00 All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) West Kowloon No. of operation hour No. of operati						
PFA Silos) No. of small cement silos Emission height 21 or 22 Emission Rate 1.08E-02 g/s (mitigated) PFA weight Hopper Source ID: EP3-EP4 Personate Density Density Emission Factor 2.60E-03 kg/Mg West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) Work Mixing Tower) No. of small cement silos 4 Emission height 21 or 22 Emission Rate 21 or 22 g/s (mitigated) PFA weight Hopper Source ID: EP3-EP4 Production rate 160 m3/hr Mixing Tower) No. of small cement silos 4 Emission Rate 10.001989 mg/m3 License of Express Rail Link (Appendix C). Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). From 7:00 to 19:00	•	Source ID: EP5-EP8		1300	m3/nr	License of Express Hall Link (Appendix C).
No. of small cement silos 4 21 or 22 Emission height 21 or 22 Emission Rate 1.08E-02 g/s (mitigated)	Plant (Cement /		No. of operation hour	12	hr	From 7:00 to 19:00
Emission Rate 1.08E-02 g/s (mitigated)	ŕ		No. of small cement silos	4		
Emission Rate 1.08E-02 g/s (mitigated)			Emission height	21 or 22		EP5: 21m. EP6-EP8: 22m
PFA weight Hopper Source ID: EP3-EP4 Density Emission Factor Emission Rate Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed. West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) PFA weight Hopper Source ID: EP3-EP4 Density 2.60E-03 kg/Mg g/s (mitigated) Mixer Source ID: TSP emission factor Dust extraction flow rate for each No. of operation hour No. of small cement silos Emission height All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). From 7:00 to 19:00				_	g/s (mitigated)	
Emission Factor 2.60E-03 kg/Mg Emission Rate 2.30E-04 g/s (mitigated) West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) Emission Factor 2.60E-03 kg/Mg 2.30E-04 g/s (mitigated) Mixer Source ID: TSP emission factor Dust extraction flow rate for each No. of operation hour No. of small cement silos Emission height All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). From 7:00 to 19:00						
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West Kowloon Cultural District Concrete Batching Plant (Mixing Tower) Emission Rate 2.30E-04 g/s (mitigated) Mixer Source ID: Emission factor 40 mg/m3 Mixer Source ID: EP1-EP2 Dust extraction flow rate for each No. of operation hour No. of small cement silos Emission height 2.30E-04 g/s (mitigated) 40 mg/m3 Mixer Source ID: EP1-EP2 Dust extraction flow rate for each No. of operation hour No. of small cement silos Emission height All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). From 7:00 to 19:00			Emission Factor	2.60E-03	kg/Mg	
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Cultural District Concrete Batching Plant (Mixing Tower) Plant (Mixing Tower) Cultural District EP1-EP2 Dust extraction flow rate for each No. of operation hour 12 No. of small cement silos Emission height Dust extraction flow rate for each No. of operation hour 12 No. of operation hour 12 No. of small cement silos 13 No. of small cement silos 13 No. of small cement silos 14 No. of small cement silos 15 No. of smal	West Kowloon	Mixer Source ID:		+		All calculations and assumptions are extracted from SP
Concrete Batching Plant (Mixing Tower) No. of operation hour No. of small cement silos Emission height 12 hr 12 hr 13 From 7:00 to 19:00						
Emission height 13	Concrete Batching			12	hr	
	Plant (Mixing Tower)			2		
			Emission neight		g/s (mitiaated)	