ocation	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks
ortal Exhaust	Exhaust Outlets during	Overall Emission Rate	1.982360E-02	1.576158E-03	TSP Emission Rate	Overall Emission Rate for Heavy Construction, Loading, Screen and Crushing
	Construction of Cavern	(during construciton hours)				(With Enclosure and Dust Collector for dust suppression on Rock Crusher)
		Volume Source	9.674397E-03	7.485010E-04	RSP Emission Rate	Emission Rate = (Construction Activities + Rock Loading + Rock Crushing + Screening) / Area of Exhaust
	Source ID: 1	(g/s)				
			4.869643E-03	1.479068E-04	FSP Emission Rate	
					Area of Exhaust (m <sup>2</sup> ) (16m x 16m)	256
	Construction Activities	Heavy Construction	3.067374E+00	3.834217E-01		Operation hour*60*60)*(Percentage Active/100)*Construction Area*(1-Dust Suppression%)
	inside Cavern	(g/s)			TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.
				I	Percentage area actively operating (%) % of dust suppression	10 Worst case assumption, refer to Justification of Percentage Active Works Area for Caverns for Relocation of STSTW 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
					no. of operation hour (hr)	12 Assumed typical working hours of work site referenced in AP-42
					Emission height (m)	0.5
					Total Construction Area in Cavern (m <sup>2</sup> )	147781 from enginneer
					,	The first of the f
			1.45087E+00	1.81358E-01	RSP emission factor (Mg/hectare/month of activity)	1.27237
					RSP-to-TSP Ratio	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
			2.20851E-01	2.76064E-02	FSP emission factor (Mg/hectare/month of activity)	0.19368
					FSP-to-TSP Ratio	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
	Rock Crusher	Truck Unloading -	7.46667E-03	7.46667E-05	Emission Rate = Emission Factor*1000*Loading Rate/3600	
	inside Cavern	Fragmented Stone			RSP emission factor (kg/Mg) TSP-to-RSP factor	0.000008 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1 2.1 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
		(g/s)			Loading rate (ton/hr)	1600 from engineer
					no. of operation hour (hr)	12 from engineer (from 0700 to 1900)
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
					, a constant and a co	Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
			3.55556E-03	3.55556E-05	RSP emission factor (kg/Mg)	0.000008 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
						Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
			0.555505.00	0.555505.05	505 ( , (, 14.)	0.00000 4 4 000 4 4 4 4 4 4 4 4 4 4 4 4
			3.55556E-03	3.55556E-05	FSP emisison factor (kg/Mg)	0.000008 adopt RSP emission factor as upper limit  99% for typical removal efficiency for Dust Collector inside Enclosure
					% of dust suppression	Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
						Control recommended for randomatic Emission from Stationary Courses vol.2, Occilor 3.7.1.2.2
		Tertiary Crushing	1.20000E+00	1.20000E-02	Emission Rate = Emission Factor*Processing Rate*1000/3	I I 800*(1-Dust Suppression%)
		(g/s)			TSP emission factor (kg/Mg)	0.0027 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
					Crushing rate (ton/hr)	1600 from engineer
					no. of operation hour (hr)	12 from engineer (from 0700 to 1900)
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
						Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
			5.33333E-01	5.33333E-03	RSP emission factor (kg/Mg)	0.0012 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure  Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
						Control recrimiques for Farticulate Ethission from Stationary Sources vol.2, Section 9.7.1.2.2
			5.33333E-01	5.33333E-03	FSP emisison factor (kg/Mg)	0.0012 adopt RSP emission factor as upper limit
			J.JJJJJL-U1	J.JJJJJL-UJ	% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
					, s s addi dupprodoion	Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2

Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks
		Fines Screening (controlled	8.00000E-01	8.00000E-03	Emission Rate = Emission Factor*Processing Rate*1000/36	600*(1-Dust Suppression%)
		(with wet suppression)	0.000002 0.	0.000002	TSP emission factor (kg/Mg)	0.0018 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
		(g/s)			Crushing rate (ton/hr)	1600 from engineer
		(9/0)			no. of operation hour (hr)	12 from engineer (from 0700 to 1900)
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
					% of dust suppression	
						Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
			4.88889E-01	4.88889E-03	RSP emission factor (kg/Mg)	0.0011 from EPA AP-42, 5th ed. 8/04 ed., S11.19.2 Table 11.19.2-1
			4.00009E-U1	4.00009E-U3	( 5 5/	
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
						Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
			4 00000 04	4 00000 00	ECD emission factor (kg/Mg)	0.0044 adapt PCD amining frates as upper limit
			4.88889E-01	4.88889E-03	FSP emisison factor (kg/Mg)	0.0011 adopt RSP emission factor as upper limit
					% of dust suppression	99% for typical removal efficiency for Dust Collector inside Enclosure
						Control Techniques for Particulate Emission from Stationary Sources Vol.2, Section 9.7.1.2.2
					5 5	
Construction Sites	Construction Activities	Heavy Construction	2.075617E-05	2.594522E-06		Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)
t Main Portal		Area Source			TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.
	Source ID: 2 - 28	$(g/m^2/s)$			Percentage area actively operating (%)	10 from enginneer
					% of dust suppression	87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
					no. of operation hour (hr)	12 Assumed typical working hours of work site referenced in AP-42
					Emission height (m)	0.5
			9.81767E-06	1.22721E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
			1.49444E-06	1.86806E-07	FSP emission factor (Mg/hectare/month of activity)	0.19368
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Wind Erosion		2.695332E-07	Emission Rate = Emission Factor*10^6/(10000*365*24*60*	-60)*(Percentage Active/100)
		Area Source			TSP emission factor (Mg/hectare/yr)	0.85 AP-42, 5th ed., Table 11.9.4
		(g/m²/s)			Percentage area actively operating (%)	10 from enginneer
		(9, 73)			Emission height (m)	0.5
					Emission neight (m)	0.5
				1.27489E-07	RSP emission factor (Mg/hectare/month of activity)	0.40205
				1.27409E-07	1	
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. \$13.2.4
				1.94064E-08	ESD emission factor (Mg/hasters/menth of activity)	0.0043
				1.94004E-00	FSP emission factor (Mg/hectare/month of activity)	0.0612
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
Construction Sites						
	Company realism A stitution	Llegar Construction	2.0756475.05	2 5045225 06	Emission Data (Emission Esster#4.000/4.0000\//20*Nls. of /	Operation hourt COSCON/Decomber a Active (400)*/4 Dust Compression(/)
	Construction Activities	Heavy Construction	2.075617E-05	2.594522E-06		Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)
		Area Source	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.
	Construction Activities  Source ID: 30 - 39	-	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer
		Area Source	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
		Area Source	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer
		Area Source	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
at Secondary Portal		Area Source	2.075617E-05	2.594522E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr)	<ul> <li>2.69 from AP-42, S13.2.3, 1/95 ed.</li> <li>10 from enginneer</li> <li>87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report</li> <li>12 Assumed typical working hours of work site referenced in AP-42</li> </ul>
		Area Source	2.075617E-05 9.81767E-06	2.594522E-06 1.22721E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr)	<ul> <li>2.69 from AP-42, S13.2.3, 1/95 ed.</li> <li>10 from enginneer</li> <li>87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report</li> <li>12 Assumed typical working hours of work site referenced in AP-42</li> </ul>
		Area Source			TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5
		Area Source			TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5 1.27237
		Area Source			TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5 1.27237
		Area Source	9.81767E-06	1.22721E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Area Source	9.81767E-06	1.22721E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Area Source	9.81767E-06	1.22721E-06	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  0.19368 0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Area Source (g/m²/s)	9.81767E-06	1.22721E-06 1.86806E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  0.19368 0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  0.19368 0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  (60)*(Percentage Active/100)
		Area Source (g/m²/s) Wind Erosion	9.81767E-06	1.22721E-06 1.86806E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%)	2.69   from AP-42, S13.2.3, 1/95 ed.   10   from enginneer   87.5   Assuming watering eight times a day, reference to Kai Tak Development EIA Report   Assumed typical working hours of work site referenced in AP-42   0.5   1.27237   0.473   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   0.19368   0.072   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   (60)*(Percentage Active/100)   0.85   AP-42, 5th ed., Table 11.9.4   from enginneer   from enginne
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr)	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  0.19368 0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  160)*(Percentage Active/100) 0.85 AP-42, 5th ed., Table 11.9.4
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07 2.695332E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)	2.69   from AP-42, S13.2.3, 1/95 ed.   10   from enginneer   87.5   Assuming watering eight times a day, reference to Kai Tak Development EIA Report   Assumed typical working hours of work site referenced in AP-42   0.5   1.27237   0.473   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   0.19368   0.072   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   (60)*(Percentage Active/100)   0.85   AP-42, 5th ed., Table 11.9.4   from enginneer   0.5   (70)   (
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)  RSP emission factor (Mg/hectare/month of activity)	2.69   from AP-42, S13.2.3, 1/95 ed.   from enginneer   87.5   Assuming watering eight times a day, reference to Kai Tak Development EIA Report   Assumed typical working hours of work site referenced in AP-42   0.5   1.27237   0.473   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   0.19368   0.072   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   160)*(Percentage Active/100)   0.85   AP-42, 5th ed., Table 11.9.4   from enginneer   0.5   0.40205
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07 2.695332E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)	2.69   from AP-42, S13.2.3, 1/95 ed.   10   from enginneer   87.5   Assuming watering eight times a day, reference to Kai Tak Development EIA Report   Assumed typical working hours of work site referenced in AP-42   0.5   1.27237   0.473   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   0.19368   0.072   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   (60)*(Percentage Active/100)   0.85   AP-42, 5th ed., Table 11.9.4   from enginneer   0.5   (70)   (
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07 2.695332E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*) TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP	2.69 from AP-42, S13.2.3, 1/95 ed. 10 from enginneer 87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report 12 Assumed typical working hours of work site referenced in AP-42 0.5  1.27237 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  0.19368 0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4  160)*(Percentage Active/100) 0.85 AP-42, 5th ed., Table 11.9.4 10 from enginneer 0.5  0.40205 0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Area Source (g/m²/s) Wind Erosion Area Source	9.81767E-06	1.22721E-06 1.86806E-07 2.695332E-07	TSP emission factor (Mg/hectare/month of activity) Percentage area actively operating (%) % of dust suppression no. of operation hour (hr) Emission height (m)  RSP emission factor (Mg/hectare/month of activity) % fraction of TSP  FSP emission factor (Mg/hectare/month of activity) % fraction of TSP  Emission Rate = Emission Factor*10^6/(10000*365*24*60*0 TSP emission factor (Mg/hectare/yr) Percentage area actively operating (%) Emission height (m)  RSP emission factor (Mg/hectare/month of activity)	2.69   from AP-42, S13.2.3, 1/95 ed.   from enginneer   87.5   Assuming watering eight times a day, reference to Kai Tak Development EIA Report   Assumed typical working hours of work site referenced in AP-42   0.5   1.27237   0.473   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   0.19368   0.072   from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4   160)*(Percentage Active/100)   0.85   AP-42, 5th ed., Table 11.9.4   from enginneer   0.5   0.40205

Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks
Construction Sites	Construction Activities	Heavy Construction	2.075617E-05	2.594522E-06	· · · · · · · · · · · · · · · · · · ·	Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)
at Ah Kung Kok Shan		Area Source			TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.
Road Surface	Source ID: 40 - 69	(g/m <sup>2</sup> /s)			Percentage area actively operating (%)	10 from enginneer
Magazine Site					% of dust suppression	87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
					no. of operation hour (hr)	12 Assumed typical working hours of work site referenced in AP-42
					Emission height (m)	0.5
			9.81767E-06	1.22721E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
İ			1.49444E-06	1.86806E-07	FSP emission factor (Mg/hectare/month of activity)	0.19368
İ					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
		Wind Erosion		2.695332E-07	Emission Rate = Emission Factor*10^6/(10000*365*24*60*6	
		Area Source			TSP emission factor (Mg/hectare/yr)	0.85 AP-42, 5th ed., Table 11.9.4
		(g/m <sup>2</sup> /s)			Percentage area actively operating (%)	10 from enginneer
				I	Emission height (m)	0.5
				1.27489E-07	RSP emission factor (Mg/hectare/month of activity)	0.40205
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
				1.94064E-08	FSP emission factor (Mg/hectare/month of activity)	0.0612
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
Haul Road Conneting	Unpaved Haul Road	Heavy Construction	2.075617E-05	2.594522E-06	Emission Rate = (Emission Factor*10^6/10000)/(30*No. of C	Depration hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)
Main Portal to	(assumed as Heavy	Area Source			TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.
Area 73	Construction as worst case)	(g/m²/s)			Percentage area actively operating (%)	10 from enginneer
	Condituoiden de moret edecy	(3, 5)			% of dust suppression	87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report
	Source ID: 70 - 82				no. of operation hour (hr)	12 Assumed typical working hours of work site referenced in AP-42
					Emission height (m)	0.5
			9.81767E-06	1,22721E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237
			3.01707L-00	1.227212-00	% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
			1.49444E-06	1.86806E-07	ESD emission factor (Ma/hastara/manth of activity)	0.19368
			1.49444E-00	1.00000E-07	FSP emission factor (Mg/hectare/month of activity)	0.072 from USEPA AP-42, 5th ed. 11/06 ed. \$13.2.4
					% fraction of TSP	0.072   10111 0SEFA AF-42, Still ed. 11/00 ed. S13.2.4
		Wind Erosion		2.695332E-07	Emission Rate = Emission Factor*10^6/(10000*365*24*60*6	,, ,
		Area Source			TSP emission factor (Mg/hectare/yr)	0.85 AP-42, 5th ed., Table 11.9.4
		(g/m <sup>2</sup> /s)			Percentage area actively operating (%)	10 from enginneer
				I	Emission height (m)	0.5
				1.27489E-07	RSP emission factor (Mg/hectare/month of activity)	0.40205
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
				1.94064E-08	FSP emission factor (Mg/hectare/month of activity)	0.0612
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4
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Location	Source	Emission Rates	(Unmitigated)	(Mitigated)	Parameters	Remarks		
Area 73	Stockpile of Spoils from	Heavy Construction	2.075617E-05	2.594522E-06	Emission Rate = (Emission Factor*10^6/10000)/(30*No. of Operation hour*60*60)*(Percentage Active/100)*(1-Dust Suppression%)			
	Cavern	Area Source			TSP emission factor (Mg/hectare/month of activity)	2.69 from AP-42, S13.2.3, 1/95 ed.		
	(assumed as Heavy	(g/m <sup>2</sup> /s)			Percentage area actively operating (%)	10 from enginneer		
	Construction as worst case)				% of dust suppression	87.5 Assuming watering eight times a day, reference to Kai Tak Development EIA Report		
					no. of operation hour (hr)	12 Assumed typical working hours of work site referenced in AP-42		
	Source ID: 83 - 113				Emission height (m)	0.5		
			9.81767E-06	1.22721E-06	RSP emission factor (Mg/hectare/month of activity)	1.27237		
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		
			1.49444E-06	1.86806E-07	FSP emission factor (Mg/hectare/month of activity)	0.19368		
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		
		Wind Erosion		2.695332E-07				
		Area Source			TSP emission factor (Mg/hectare/yr)	0.85 AP-42, 5th ed., Table 11.9.4		
		(g/m <sup>2</sup> /s)			Percentage area actively operating (%)	10 from enginneer		
					Emission height (m)	0.5		
				1.27489E-07	RSP emission factor (Mg/hectare/month of activity)	0.40205		
					% fraction of TSP	0.473 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		
				1.94064E-08	FSP emission factor (Mg/hectare/month of activity)	0.0612		
					% fraction of TSP	0.072 from USEPA AP-42, 5th ed. 11/06 ed. S13.2.4		