

Appendix 5.2.8 - Estimations of Active Area Percentages for Key Construction Activities (Hourly/Daily and Annual)

Key Construction Activity	2015				2016				2017				2018				2019				2020				2021				2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Land Formation																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.8%	1.2%	1.8%	2.0%	1.9%	3.2%	6.8%	15.1%	4.7%	9.9%	6.0%	5.8%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	3.4%	0.6%	0.4%	0.0%	0.1%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.4%				1.95%				15.1%				9.9%				0.1%				3.4%			0.6%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.6%	1.0%	1.4%	1.7%	2.2%	3.5%	6.8%	7.5%	9.1%	9.0%	6.6%	5.4%	3.0%	1.5%	0.1%	0.1%	0.0%	0.0%	0.9%	1.0%	1.1%	1.1%	0.3%
Maximum Yearly Average Percentage Active Area	0.0%				0.1%				1.4%				6.8%				6.6%				0.1%				0.9%			0.3%				
Submarine pipeline and cable																																
Total percentage active area for each quarterly period	0.0%	0.0%	30.0%	30.0%	30.0%	30.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	30.0%				30.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	7.5%	15.0%	22.5%	30.0%	30.0%	22.5%	15.0%	7.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	15.0%				22.5%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
Existing Airport Island Work Areas																																
Heavy Construction (Advanced Works)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	1.6%	0.9%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	0.0%				1.62%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	1.0%	1.0%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				1.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
Emergency Vehicular Access (EVA)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				8.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	2.0%	2.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				2.0%				0.0%				0.0%				0.0%				0.0%			0.0%				
T2 Expansion - Car Park North (North Annex Building)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.3%				0.0%				0.0%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.2%				0.0%				0.0%				0.0%			0.0%				
T2 Expansion - Lounge Limo (South Annex Building)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.5%				0.0%				0.0%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.2%				0.0%				0.0%				0.0%			0.0%				
T2 Expansion Area																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	3.1%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.1%				0.5%				3.1%				0.5%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%	0.0%	0.0%	0.0%	0.8%	0.9%	0.9%	0.9%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.2%				0.8%				0.2%				0.0%			0.0%				
Baggage Hall - Baggage Handling System (BHS)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.9%	19.5%	19.5%	19.0%	0.0%	0.0%	10.4%	9.2%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				19.5%				19.0%				9.2%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	5.8%	10.7%	15.5%	14.5%	9.6%	7.4%	4.9%	5.6%	5.6%	3.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				10.7%				7.4%				3.0%				0.0%			0.0%				
New APM Interchange Station (AIS)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	2.4%	14.9%	14.9%	7.6%	0.0%	0.0%	2.9%	4.3%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				2.9%				14.9%				7.6%				4.3%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.7%	0.7%	1.3%	4.3%	8.1%	10.0%	9.4%	5.6%	2.6%	1.8%	2.6%	2.6%	1.9%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.7%				8.1%				2.6%				1.9%				0.0%			0.0%				
Roadworks Road 6 (Concept F, Option 3)																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.8%	26.4%	37.4%	29.8%	34.5%	27.6%	25.4%	14.0%	9.6%	5.2%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.4%	5.4%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				37.4%				34.5%				14.0%				0.0%				5.4%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.7%	11.3%	20.7%	28.1%	32.1%	32.3%	29.3%	25.4%	19.1%	13.5%	7.6%	4.1%	1.7%	0.4%	0.0%	0.0%	0.0%	1.1%	2.5%	2.5%	2.5%	1.4%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				20.7%				29.3%				7.6%				0.0%				2.5%			0.0%				
Roadworks South Cargo Road																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.8%	38.9%	55.2%	44.0%	50.9%	40.6%	37.4%	20.7%	14.1%	7.6%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.5%	8.0%	0.0%	0.0%	0.0%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				55.2%				50.9%				20.7%				0.0%				8.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%	16.7%	30.5%	41.5%	47.3%	47.7%	43.2%	37.4%	28.2%	20.0%	11.2%	6.0%	2.5%	0.6%	0.0%	0.0%	0.0%	1.6%	3.6%	3.6%	3.6%	2.0%	0.0%
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				30.5%				43.2%				11.2%				0.0%				3.6%			0.0%				
Western Support Area Emergency Access Road																																
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.2%	55.2%	55.2%	55.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.0%				0.0%				55.2%				0.0%			0.0%				
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													

Appendix 5.2.8 - Estimations of Active Area Percentages for Key Construction Activities (Hourly/Daily and Annual)

Key Construction Activity	2015				2016				2017				2018				2019				2020				2021				2022				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Other construction on newly formed land																																	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	2.8%	1.2%	4.1%	1.8%	0.6%	1.2%	3.8%	1.1%	0.1%	0.1%	4.0%	0.1%	0.3%	1.3%	0.6%	0.3%	0.2%	0.0%	0.0%	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%	2.5%	0.0%
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.1%				4.1%				3.8%				4.0%			1.3%				2.5%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	1.1%	1.4%	2.4%	2.5%	1.9%	1.9%	1.8%	1.7%	1.5%	1.3%	1.3%	1.1%	1.1%	1.4%	0.6%	0.6%	1.2%	1.5%	1.3%	
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				2.4%				1.8%				1.3%			0.6%				1.3%					
APM & BHS Tunnel Construction																																	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.4%				0.5%				0.5%				0.4%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.2%				0.5%				0.5%				0.2%			0.0%				0.0%					
New APM Depot																																	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.4%				0.4%				0.4%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.4%				0.4%				0.3%			0.0%				0.0%					
Airside tunnels																																	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	0.6%	1.0%	1.0%	0.3%	0.3%		
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.6%				1.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.4%	0.7%	0.8%	0.7%	0.6%		
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.4%				0.6%					
Midfield Development																																	
Total percentage active area for each quarterly period	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.9%	0.9%	0.2%	0.2%	2.0%	2.0%	1.9%	1.9%	0.0%	0.4%	0.4%	0.4%	0.4%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	0.0%				0.0%				0.0%				0.9%				2.0%				1.9%			0.8%				0.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%	0.6%	0.7%	0.5%	0.8%	1.1%	1.5%	2.0%	1.5%	1.1%	0.7%	0.3%	0.4%	0.5%	0.6%	0.5%	0.4%	0.2%	0.0%	
Maximum Yearly Average Percentage Active Area	0.0%				0.0%				0.0%				0.7%				1.5%				0.7%			0.6%				0.0%					
Concurrent Project - NCD area works																																	
Total percentage active area for each quarterly period	0.0%	0.0%	1.2%	66.3%	21.5%	26.0%	13.4%	3.1%	0.8%	1.3%	1.1%	9.2%	27.7%	44.6%	29.4%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	66.3%				26.0%				9.2%				44.6%				0.0%				0.0%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.3%	16.9%	22.3%	28.8%	31.8%	16.0%	10.8%	4.7%	1.6%	3.1%	9.8%	20.7%	27.8%	26.3%	19.4%	8.2%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	16.9%				16.0%				3.1%				26.3%				0.0%				0.0%			0.0%				0.0%					
Concurrent Project - ITT area works																																	
Total percentage active area for each quarterly period	39.2%	42.4%	29.9%	25.7%	36.5%	37.8%	38.2%	31.2%	28.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	42.4%				38.2%				28.8%				0.0%				0.0%				0.0%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	18.4%	29.0%	33.4%	34.3%	33.6%	32.5%	34.6%	35.9%	34.0%	24.6%	15.0%	7.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	#####				35.9%				7.2%				0.0%				0.0%				0.0%			0.0%				0.0%					
Concurrent Project - BCF																																	
Total percentage active area for each quarterly period	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	30.0%				30.0%				0.0%				0.0%				0.0%				0.0%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	10.0%				10.0%				0.0%				0.0%				0.0%				0.0%			0.0%				0.0%					
Concurrent Project - Hong Kong Link Road																																	
Total percentage active area for each quarterly period	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Daily and Hourly Maximum Percentage Active Area	30.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	10.0%	10.0%	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	10.0%				0.0%				0.0%				0.0%				0.0%				0.0%			0.0%				0.0%					
Concurrent Project - Other airport facilities related works																																	
Total percentage active area for each quarterly period	0.00%	0.00%	0.00%	0.00%	5.16%	5.16%	5.16%	5.16%	1.40%	1.40%	1.40%	1.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Daily and Hourly Maximum Percentage Active Area	0.0%				5.2%				1.4%				0.0%				0.0%				0.0%			0.0%				0.0%					
Moving Yearly Average Percentage Active Area	0.0%	0.0%	0.0%	0.0%	1.3%	2.6%	3.9%	5.2%	4.2%	3.3%	2.3%	1.4%	1.1%	0.7%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Maximum Yearly Average Percentage Active Area	0.0%				5.2%				1.4%				0.0%				0.0%				0.0%			0.0%				0.0%					

Appendix 5.2.8 - Estimations of Active Area Percentages for Key Construction Activities (Hourly/Daily and Annual)

Sample calculation for the Active Area Percentages used in the Tier 2 and Annual calculations for TSP and RSP emissions:

Percentage active area calculations are based on the resource plant schedule and construction works programme proposed for each work area.

For example, for the Sand Filling Activity of Area 1_01, the percentage active area for Year 2017 Q1 was calculated as follows.

- Given the **Resource Plant Schedule**¹ and **Scheme Design Works Programme**² proposed for all Land Formation areas with sand filling works at a rate of 3700m³ per day, as below:

	Unit Rate of Production Plant	Equivalent Unit Rate of Supporting Plant	2017 Q1
Activity 5c- Filling Above Water (Sand Fill) at 3700m ³ /Day (4m filling depth)			
Trailing Suction Dredging Hopper (TSDH)	1		12
Pump Set		1	12
Spreader Pontoon		1	12
Mining Truck		5	60
Hauling Machine		1	12
Truck		*	
Excavator, backhoe		**	
Land formation areas with sand filling at 3700m ³ /day:			1_01, 1_03, 1_04, 1_07, 1_08A, 1_08B, 1_09, 2_08 and 2_09
Total area with sand filling activity at 3700m ³ /day:			2,487,410 m ²

- The total area with sand filling activity at 3700m³/day during 2017 Q1 was computed by adding the individual areas of 1_01, 1_03, 1_04, 1_07, 1_08A, 1_08B, 1_09, 2_08 and 2_09, on which this activity will be performed.
- A sand filling depth of 4 meters was taken according to the **Scheme Design Report**³, where filling operations are said to be performed from +2.5mPD (above sea level) to the formation level, i.e. +6.5mPD.
- The proportion of active days in 2017 Q1 was calculated from the Construction Programme. As the resource plant schedule applied to all areas with activity, the maximum proportion of active days was applied to all areas in that quarter = 100% of assume 90 days.

Percentage active area = $\frac{12 \text{ (TSDH units)} \times 3700m^3/\text{day}}{2,487,410m^2 \times 4 \text{ m}} \times 100\% \text{ (active days)}$
= 0.45 %

In a similar manner, the percentage active areas for the Public Filling Activity of Area 1_01 in Year 2017 Q1 was calculated as 0.24%.

Taking a worse case approach, both activities were assumed to occur at the same time and the overall percentage active for Area 1_01 was taken to be 0.69%.

After computing the percentage active areas for all land formation areas, the ‘Total percentage active area for each quarterly period’ was taken to be the maximum computed active area of all. For year 2017 Q1, this value corresponds to Area 2_03B, with a percentage active area of 0.80%.

For the ‘Daily and Hourly Maximum Percentage Active Area’, the largest ‘Total percentage active area for each quarterly period’ of all 4 quarters in a given year was used. For year 2017 for example, the percentage computed for Q4, i.e. 1.95% was used as this was the maximum.

The Maximum Yearly Average Percentage Active Area was calculated to be the average ‘Total percentage active area for each quarterly period’ of all 4 quarters.

¹ Resource Plant Schedule, Revision B3, 10 Apr 2013

² Scheme Design Works Programme, Revision B3, 10 Apr 2013

³ Scheme Design Report (Deliverable No.D11), Revision 02, 30 Apr 2013