

Appendix 10.1 Breakdown of Annual Quantity of Materials Generation

	2010	2011	2012	2013	2014	Sub-Total
	(X 1,000 m ³)					
Tunnel Between Boundary at Huangang and Ngau Tam Mei						
Soft Inert Materials	71.6	115.5	-	-	-	187.0
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	-	-	-	-	-	-
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	-	-	261.7	87.2	-	348.9
Artificial Hard Materials – Bitumen ⁽³⁾	0.1	-	-	-	-	0.1
Artificial Hard Materials – Broken Concrete ⁽³⁾	1.6	0.4	-	-	-	2.0
Non-inert C&D Materials ⁽⁴⁾	1.0	0.3	0.3	0.3	1.0	3.0
Tunnel Between Ngau Tam Mei and Tai Kong Po						
Soft Inert Materials	-	37.9	-	-	-	37.9
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	-	-	-	-	-	-
Volcanics	-	-	292.1	97.4	-	389.5
Wet Spoil ⁽²⁾	-	2.3	-	-	-	2.3
Artificial Hard Materials – Bitumen ⁽³⁾	1.1	-	-	-	-	1.1
Artificial Hard Materials – Broken Concrete ⁽³⁾	1.6	0.4	-	-	-	2.0
Non-inert C&D Materials ⁽⁴⁾	0.4	0.4	0.4	0.4	0.4	2.0
Tunnel Between Tai Kong Po and Tse Uk Tsuen						
Soft Inert Materials	-	1190.0	-	-	-	1190.0
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	-	-	-	-	-	-
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	23.0	93.7	190.1	-	-	306.9
Artificial Hard Materials – Bitumen ⁽³⁾	0.9	-	-	-	-	0.9
Artificial Hard Materials – Broken Concrete ⁽³⁾	3.2	0.8	-	-	-	4.0
Non-inert C&D Materials ⁽⁴⁾	1.4	0.8	0.8	0.8	2.4	6.1
Tunnel Between Tse Uk Tsuen and Shek Yam						
Soft Inert Materials	2.7	20.5	-	-	-	23.2
Grade I/II Granites	58.5	530.0	25.0	-	-	613.5

	2010	2011	2012	2013	2014	Sub-Total
	(X 1,000 m ³)					
Grade III/IV Granites ⁽¹⁾	-	-	-	-	-	0
Volcanics	-	-	457.7	315.7	-	773.4
Wet Spoil ⁽²⁾	3.9	1.5	-	-	-	5.4
Artificial Hard Materials – Bitumen ⁽³⁾	0.7	-	-	-	-	0.7
Artificial Hard Materials – Broken Concrete ⁽³⁾	1.6	0.4	-	-	-	2.0
Non-inert C&D Materials ⁽⁴⁾	0.4	0.4	0.4	0.4	0.4	2.0
Tunnel Between Shek Yam and Mei Lai Road						
Soft Inert Materials	-	-	-	-	-	-
Grade I/II Granites	-	202.7	456.2	-	-	658.9
Grade III/IV Granites ⁽¹⁾	-	-	-	-	-	-
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	-	-	-	-	-	-
Artificial Hard Materials – Bitumen ⁽³⁾	3.1	-	-	-	-	3.1
Artificial Hard Materials – Broken Concrete ⁽³⁾	1.6	0.4	-	-	-	2.0
Non-inert C&D Materials ⁽⁴⁾	0.4	0.4	0.4	0.4	0.4	2.0
Tunnel Between Mei Lai Road and Mong Kok West						
Soft Inert Materials	17.4	207.6	-	-	-	225.0
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	2.5	39.6	-	-	-	42.1
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	5.0	-	382.4	104.3	-	491.6
Artificial Hard Materials – Bitumen ⁽³⁾	5.1	-	-	-	-	5.1
Artificial Hard Materials – Broken Concrete ⁽³⁾	14.0	6.0	-	-	-	20.0
Non-inert C&D Materials ⁽⁴⁾	1.8	0.8	0.8	0.8	1.8	6.0
Tunnel Between Mong Kok West and West Kowloon						
Soft Inert Materials	-	160.7	589.3	-	-	750.0
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	11.6	11.6	-	-	-	23.2
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	33.5	29.8	-	-	-	63.3
Artificial Hard Materials – Bitumen ⁽³⁾	0.6	0.2	-	-	-	0.8

	2010	2011	2012	2013	2014	Sub-Total
	(X 1,000 m ³)					
Artificial Hard Materials – Broken Concrete ⁽³⁾	5.0	10.0	5.0	-	-	20.0
Non-inert C&D Materials ⁽⁴⁾	1.0	0.3	0.3	0.3	1.0	3.0
Works at West Kowloon Terminus						
Soft Inert Materials	185.0	1998.6	363.7	418.4	-	2965.7
Grade I/II Granites	-	-	-	-	-	-
Grade III/IV Granites ⁽¹⁾	-	97.2	10.8	167.9	-	275.9
Volcanics	-	-	-	-	-	-
Wet Spoil ⁽²⁾	292.6	-	-	-	-	292.6
Artificial Hard Materials – Bitumen ⁽³⁾	2.4	1.4	-	-	-	3.8
Artificial Hard Materials – Broken Concrete ⁽³⁾	6.6	5.4	10.0	-	-	22.0
Non-inert C&D Materials ⁽⁴⁾	2	0.6	0.6	0.6	2.0	5.9
Total Volume of C&D Materials Generated						9785.9

Notes:

1. Grade III/IV Granites & Volcanics = Rock other than Grade I/II Granites in the text
2. Generated from TBM excavation and foundation work
3. Generated from demolition works
4. Materials from site formation
5. Figures may not add up to total due to rounding off