

## Appendix 5.1 Calculation of Sediment Loss Rate for Sediment Plume Modelling

Item	Activities	Programme	Production Rate	Bulk Density	Fine Content	Loss Rate	Release Rate	Mitigation	Duration per Event	Cycle	Working Hours	Duration	Total Loss Rate per Event
			m <sup>3</sup> /event/day	kg/m <sup>3</sup>			kg/m <sup>3</sup>		min	Event/day	hr/day	Day/Month	kg/s
	<b>CBL</b>												
1	Dredging Main Bridge Piles / Pile Caps	May 2017 - Mar 2018	400				25	80.0% <sup>[1]</sup>	600	1	10	19	0.06
2	Dredging Eastern Approach Piles / Pile Caps	May 2017 - July 2018	400				25	80.0% <sup>[1]</sup>	600	1	10	20	0.06
3	Dredging Western Approach Piles / Pile Caps	Dec 2017 - Aug 2018	400				25	80.0% <sup>[1]</sup>	600	1	10	12	0.06
4	Filling Main Bridge	May 2017 - Mar 2018	769	1900	25%	5%	23.75	75.0% <sup>[2]</sup>	240	1	10	10	0.32
5	Filling Eastern Approach	May 2017 - July 2018	769	1900	25%	5%	23.75	75.0% <sup>[2]</sup>	240	1	10	10	0.32
6	Filling Western Approach	Dec 2017 - Aug 2018	769	1900	25%	5%	23.75	75.0% <sup>[2]</sup>	240	1	10	6	0.32
	<b>T2<sup>[3]</sup></b>												
17	Dredging	Mar 2012 to Jan 2014	8000				20	75.0% <sup>[2]</sup>	720	1	12	25	0.93
18	Dredging	Feb 2015 to May 2017	8000				20	75.0% <sup>[2]</sup>	720	1	12	25	0.93
19	Filling - Public Fill	May 2012 to Dec 2012	9000	1600	20%	5%	16	75.0% <sup>[2]</sup>	720	1	12	25	0.83
20	Filling - Public Fill	Apr 2013 to Dec 2016	9000	1600	20%	5%	16	75.0% <sup>[2]</sup>	720	1	12	25	0.83
	<b>LTT Reclamation</b>												
23	Reclamation filling	Jul 2018 to Oct 2018	1000	1900	25%	5%	23.75	95.0%	180	1	12	25	0.11
	<b>CLP Windfarm</b>												
24	Grab Dredging - Cable	Jan 2017 to Apr 2017	6300				25	75.0%	720	1	12	25	0.91
25	Jetting - Cable	Jan 2017 to Apr 2017	4804	1105	100%	20%	221	0.0%	960	1	16	6	18.43
26	Suction Cassion - Windfarm foundation	Apr 2017 to Sep 2017	9600	165.8	100%	20%	33.16	0.0%	480	1	8	25	11.05

Note:

[1] Dredging/Filling activities for construction of CBL will be carried out within the cofferdam. Sediment loss reduction efficiency for dredging works within the cofferdam is assumed to be 80% in conservative as described in CBL EIA report.

[2] Silt curtain is adopted as mitigation measures. Sediment loss reduction efficiency for implementation of silt curtain around the dredging/filling works is assumed to be 75% (according to "Contaminated Spoil Management Study").

[3] According to the approved EIA report for Cruise Terminal (EIA-138/2007) and Submarine Gas Pipeline (EIA-182/2010), plume from T2 project will be localized in Kai Tak Approach Channel and will not encroach to Junk Bay.