

Appendix K

Revised Water Demand Assessment

Water Demand Assessment

For application for amendment of plan under Section 12A of the Town Planning Ordinance (Cap.131)

To rezone the application site from "Green Belt" and area shown as "Road" to "Residential (Group C) 5

For proposed residential development at various Lots in D.D. 210 and adjoining Government land

Pak Wai, Sai Kung

The fresh water and flushing water demands for the proposed development are estimated based on the residential population and land of use of the Site. The breakdowns of the demand projection are presented in below table.

Development Type	Population Head/ Area (m ²)	Freshwater				Flushing Water		
		Unit Demand	Service Trade	Water Demand	10% contingency	Unit Demand	Water Demand	10% contingency
		(m ³ / head/ day)	(m ³ / head/ day)	(m ³ / day)	(m ³ / day)	(m ³ / head/ day)	(m ³ / day)	(m ³ / day)
Domestic	288	0.39	0.05	126.72	139.392	0.07	20.16	22.176
Clubhouse	10	0.28	--	2.80	3.08	0.07	0.7	0.77
Swimming Pool	--	--	--	337.5	--	--	--	--
Irrigation	1523.04	--	0.07	106.61	117.27	--	--	--
		Total		573.63	597.25	--	20.86	22.95
		Total Fresh Water Demand (Excl. FS)		620.19				
Fire Service	--	--	--	6000	--	--	--	--
		Total Fresh Water Demand (Incl. FS)		6,620.19				

It is prepared in accordance with WSD's DI No.1309 and Manual of Mainlaying Practice 2012.

The fire-fighting requirement for residential zone is 6000m³/d according to Departmental Instruction No.1309, WSD