

Supplementary Material 2. *Summary of the post-volcanic Cretaceous to Eocene sedimentary units in Hong Kong (after Lai et al. 1996; Sewell et al. 2000 and references therein)*

Rock unit	Main lithology	Field relationship	Preserved thickness (m)	Stratigraphic age	Samples
Pat Sin Leng Formation	Thickly-bedded conglomerate, tuffaceous sandstone and thinly-bedded siltstone	Deposited on 164 Ma volcanic strata; dipping variably at 20-45° to N and NE; areal coverage of 30 km ²	500	Cretaceous	HK13327 HK13334 HK13343
Port Island Formation	Thickly-bedded conglomerate and siltstone, interbedded with thinly-bedded siltstone	Deposited on 143 Ma volcanic strata; dipping variably at 20-40° to E and SE;	300	Cretaceous	HK13329
Kat O Formation	Calcareous tuffaceous breccias, conglomerate and coarse-grained sandstone, with granitic clast-bearing breccias and sandstone in an offshore outcrop	Deposited on 143 Ma volcanic strata; dipping at 5-10° to N	100	Cretaceous	HK13325 HK13326 HK13743
Ping Chau Formation	Thinly-bedded dolomitic and calcareous siltstones, locally aegirine- and / or zeolite-bearing with rare cherty interbeds	Base of formation not exposed; dipping at 10-20° to NE	450	Eocene	HK13322 HK13323