

CV4353 Ground Engineering

- 1b(i) 621 kN/m
(ii) 69 kPa
(iii) 203.6 kN/m
- 2b(i) $M_o = 1954 \text{ kNm/m}^2$
 $M_R = 2496 \text{ kNm/m}$
 $F_s = 1.28$
(ii) Submerged $M_o = 837.8 \text{ kNm/m}$
 $F_s = 2.98 \gg 3$
 $P_w = 250 \text{ kN/m}$
 $P_{wh} = 5.43\text{m}$
 $P_{wv} = 2.01\text{m}$
 $M_o = 840 \text{ kNm/m}$
 $F_s = 2.97 \gg 3.0$
- 3b(i) 108 kN/m^2 , 61%
- 3c(iii) $L/D = 4$
- 4a 1.41 year
4b 0.039
4c 0.14
4d $U_{vh} = f(T_v, \lambda)$