

Estimation of Excavated Sediment

\*Pond Mud and Marine Deposit are collectively presented as "Excavated Sediment" in main text.

										Estimated Thickness of Pond Mud and Marine Deposit According to Aavailable Ground Investigation Record					
Estimated Pond Mud and Marine Deposit from Excavation										Grid 1 (Thickness of Pond Mud and Marine Deposit)		Grid 2 (Thickness of Pond Mud and Marine Deposit)		Grid 3 (Thickness of Pond Mud and Marine Deposit)	
Excavation Area	% of Area Enchroached into Grid 1 (A)	% of Area Enchroached into Grid 2 (B)	% of Area Enchroached into Grid 2 (C)	Assumed Existing Ground Level (mPD)	Basement Bottom level (mPD)	Excavation Depth	Area (m <sup>2</sup> ) (J)	Pond Mud (m <sup>3</sup> ) =(A)x(D)x(J)+(B)x(F)x(J)+(C)x(H)x(J)	Marine Deposit (m <sup>3</sup> ) =(A)x(E)x(J)+(B)x(G)x(J)+(C)x(I)x(J)	Pond Mud/ m (D)	Marine Deposit/m (E)	Pond Mud/m (F)	Marine Deposit/m (G)	Pond Mud/m (H)	Marine Deposit/m (I)
Phase 1 (shallow)	85%	15%	0%	4.09	1.6	5.2	20,400.00	-	-	0	0	0	0	0	0
Phase 1 (deep)	50%	35%	15%	2.7	-5.2	12.0	16,320.00	-	31,416.00	0	2	0	2	0	1.5
Phase 2 (shallow)	50%	30%	20%	7.03	1.6	5.2	14,030.00	-	-	0	0	0	0	0	0
Phase 2 (deep)	80%	20%	0%	5.59	-3.2	10.0	9,821.00	982.10	19,642.00	0	2	0.5	2	1	1.5
Phase 3 (shallow)	25%	50%	25%	10.11	1.6	5.2	12,900.00	-	-	0	0	0	0	0	0
Phase 4 (shallow)	90%	10%	0%	9.52	1.6	5.2	17,220.00	-	-	0	0	0	0	0	0
Phase 5 (deep)	50%	40%	10%	6.43	-5.2	12.0	13,064.00	3,919.20	20,249.20	0.5	1.5	0	1.5	0.5	2
Phase 6 (shallow)	20%	40%	40%	6.11	1.6	5.2	30,774.00	-	-	0	0	0	0	0	0

Estimated Pond Mud and Marine Deposit from Pilling

	No. of Tower (K)	Nos. of Piles (L) =(K)x8	Diameter (M)	Area of Each Pile (N)	Pond Mud (Thickness) (O)	Marine Deposit (Thickness) (P)	Excavated Pond Mud* (m <sup>3</sup> ) =(L)x(N)x(O)	Excavated Marine Deposit* (m <sup>3</sup> ) =(L)x(N)x(P)
Pilling Area								
Phase 3	6	48	1.65	2.14	1.50	2.00	115.56	154.08
Phase 4	2	16	1.65	2.14	1.00	1.50	25.68	38.52
Phase 6	19	152	1.65	2.14	0.50	2.50	121.98	609.90

\* Remark 0.75 reduction factor applied to Area of each Pile

	Pond Mud (m <sup>3</sup> )	Marine Deposit (m <sup>3</sup> )
Sub-total from Excavarion	4,901.30	71,307.20
Sub-total from Piliing	263.22	802.50
TOTAL	5,164.52	72,109.70

Total Excavated Sediment to be generationed	77,274.22
Total Excavated Sediment to be generationed (Rounded)	77,300