

Sampling Locations / Sampling Grid	Ground / Seabed Level (mPD)	Details of Proposed Sediment Removal Works			Sediment Sample Depth (m bgl)		Sediment Sample Depth (mPD)		Category / Disposal Type <sup>(2)</sup>	Descriptions <sup>(3)</sup>	Represented Depth (m bgl)		Represented Depth (mPD)		Thickness of Sediment (m)	Thickness of Sediment to be removed (m)	Volume of Sediment (by Depth) (m <sup>3</sup> )	Volume of Sediment (by Grid & Category) (m <sup>3</sup> )			Volume of Sediment (by Grid & Disposal Type) (m <sup>3</sup> )			
					From	To	From	To			From	To	From	To				Category L Sediment	Category M Sediment	Category H Sediment (does not require biological screening)	Type 1 - Open Sea Disposal	Type 2 – Confined Marine Disposal	Type 3 – Special Treatment/ Disposal	
		Works Type <sup>(1)</sup>	Sediment Removal Area (m <sup>2</sup> )	Maximum Sediment Removal Thickness (m)	From	To	From	To			From	To	From	To				From	To	From	To	From	To	From
MEA1 <sup>(4)</sup>	-11.59	Reclamation works; maximum sediment removal to 2m below seabed level	5099.67	2.0	SURFACE				Cat L/Type 1	MD	0.00	0.90	-11.59	-12.49	0.90	0.90	4589.7	510.0	4589.7	5099.7	510.0	9689.4	0.0	
					0.20	0.90	-11.79	-12.49	Cat M/Type 2	MD														
					0.90	1.90	-12.49	-13.49	Cat H/Type 2	MD	0.90	1.90	-12.49	-13.49	1.00	1.00								5099.7
					1.90	2.90	-13.49	-14.49	Cat L/Type 1	MD	1.90	2.90	-13.49	-14.49	1.00	0.10								510.0
					2.90	5.90	-14.49	-17.49	Cat L/Type 1	MD	2.90	5.90	-14.49	-17.49	3.00	0.00								0.0
MEA2	-11.26	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA3/MEA3a	-13.46	Reclamation works; maximum sediment removal to 2m below seabed level	237.90	2.0	SURFACE				NA	FILL	-	-	-	-	-	-	0.0	0.0	237.9	23.8	0.0	261.7	0.0	
					0.40	0.90	-13.86	-14.36	NA	FILL														
					0.90	1.90	-14.36	-15.36	Cat M/Type 2	MD	0.90	1.90	-14.36	-15.36	1.00	1.00								237.9
					1.90	2.90	-15.36	-16.36	Cat H/Type 2	MD	1.90	2.90	-15.36	-16.36	1.00	0.10								23.8
MEA4	-11.27	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA5	-15.14	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA6	-16.01	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA7	-14.05	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA8	-16.91	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA9	-14.12	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA10	-18.06	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA11	-14.38	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA12	-18.34	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA13	-16.66	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA14	-18.58	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA15	-17.05	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA16	-18.61	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA17 <sup>(5)</sup>	-18.35	Reclamation works; maximum sediment removal to 2m below seabed level	10944.25	2.0	-	-	-	-	NA		No Sediment Counteracted						0.0	0.0	0.0	0.0	0.0	0.0		
MEA18	-18.40	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA19 <sup>(5)</sup>	-18.48	Reclamation works; maximum sediment removal to 2m below seabed level	3863.54	2.0	SURFACE				Cat L/Type 1	MD	0.00	0.90	-18.48	-19.38	0.90	0.90	3477.2	7727.1	0.0	0.0	7727.1	0.0	0.0	
					0.00	0.90	-18.48	-19.38	Cat L/Type 1	MD														
					0.90	1.90	-19.38	-20.38	Cat L/Type 1	MD	0.90	1.90	-19.38	-20.38	1.00	1.00								3863.5
					1.90	2.90	-20.38	-21.38	Cat L/Type 1	MD	1.90	2.90	-20.38	-21.38	1.00	0.10								386.4
MEA20	-14.73	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA21	-18.51	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
										No Sediment Removal Expected														
										No Sediment Removal Expected														
MEA22	-18.51	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0	0.0		
										No Sediment Removal Expected														
MEA23	-	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0			
MEA24	-	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<b>TOTAL (BY DISPOSAL TYPE)</b>																<b>8237</b>	<b>4828</b>	<b>5123</b>	<b>8237</b>	<b>9951</b>	<b>0</b>			
<b>GRAND TOTAL</b>																<b>18188</b>			<b>18188</b>					

**Notes:**  
 1. Refer to Drawing 60720423/B30/FIGURE 7.3 for works types  
 2. Cat L: Category L sediment  
 Cat M: Category M sediment  
 Cat H: Category H sediment (≤ 10xLCEL)  
 Type 1: Type 1 - Open Sea Disposal  
 Type 2: Type 2 - Confined Marine Disposal  
 NA - Not applicable.  
 3. MD: MARINE DEPOSIT  
 NA: Not applicable  
 Descriptions based on borehole logs.

4. For sampling locations MEA1, the surface grab samples were classified as Category L / Type 1 sediment while the vibrocore samples representing 0 m bgl to 0.90 m bgl were classified as Category M / Type 2 sediment. As a conservative approach, the results of the higher contamination category (i.e. results from the vibrocore samples) were used to represent the top sediment profile.  
 5. The sediment removal area for sampling grids of MEA17 and MEA19 includes sediment removal area adjacent to but outside the corresponding sampling grids.

Sampling Locations / Sampling Grid	Seabed Level (mPD)	Details of Proposed Sediment Removal Works			Sediment Sample Depth (m bgl)		Sediment Sample Depth (mPD)		Category / Disposal Type <sup>(5)</sup>	Descriptions <sup>(6)</sup>	Represented Depth (m bgl)		Represented Depth (mPD)		Thickness of Sediment (m)	Thickness of Sediment to be removed (m) [C]	Volume of Sediment (by Depth) (m <sup>3</sup> ) [D]	Volume of Sediment (by Grid & Category) (m <sup>3</sup> )			Volume of Sediment (by Grid & Disposal Type) (m <sup>3</sup> )		
		Works Type <sup>(1)</sup>	Sediment Removal Thickness (m) [A]	Sediment Removal Volume (m <sup>3</sup> ) [B]	From	To	From	To			From	To	From	To				Category L Sediment	Category M Sediment	Category H Sediment (does not require biological screening)	Type 1 - Open Sea Disposal	Type 2 - Confined Marine Disposal	Type 3 - Special Treatment/ Disposal
MEB1 <sup>(5)</sup>	-7.83	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	4139.44	SURFACE		Cat L/Type 1		DMD	0.00	0.50	-7.83	-8.33	0.50	0.50	4792.76	5446.1	0.00	0.00	5446.1	0.00	0.00	
		- sediment removal to 1.0m below seabed level	1.0	1306.64	0.00	0.42	-7.83	-8.25	Cat L/Type 1	DMD	0.50	1.00	-8.33	-8.83	0.50	0.50	653.32						
MEB2	-11.02	Reclamation works; - maximum sediment removal to 0.5m below seabed level	0.5	6933.41	SURFACE		Cat L/Type 1		NA	0.00	0.90	-11.02	-11.92	0.90	0.50	6933.41	6933.4	0.00	0.00	6933.4	0.00	0.00	
MEB3	-12.32	Reclamation works; - maximum sediment removal to 0.5m below seabed level	0.5	6534.56	SURFACE		Cat L/Type 1		NA	0.00	0.90	-12.32	-13.22	0.90	0.50	6534.56	6534.6	0.00	0.00	6534.6	0.00	0.00	
MEB4	-12.60	Maximum sediment removal to 0.5m below seabed level	0.5	170.74	SURFACE		Cat L/Type 1		NA	0.00	0.90	-12.60	-13.50	0.90	0.50	170.74	170.7	0.00	0.00	170.7	0.00	0.00	
MEB5	-9.12	Reclamation works: - sediment removal to 1.0m below seabed level	1.0	4552.60	SURFACE		Cat M/Type 2		BD	0.00	0.90	-9.12	-10.02	0.90	0.90	4097.34	0.0	4097.34	455.26	0.0	4552.60	0.00	
					0.00	0.90	-9.12	-10.02	Cat M/Type 2	BD	0.90	1.75	-10.02	-10.87	0.85	0.10	455.26						
MEB6 <sup>(6)</sup>	-10.78	Reclamation works: - sediment removal to 1.0m below seabed level	1.0	8385.70	SURFACE		Cat L/Type 1		DMD	0.00	0.90	-10.78	-11.68	0.90	0.90	7547.13	0.0	7547.13	838.57	0.0	8385.70	0.00	
					0.00	0.90	-10.78	-11.68	Cat M/Type 2	DMD	0.90	1.92	-11.68	-12.70	1.02	0.10	838.57						
MEB7	-12.40	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	6035.62	SURFACE		Cat L/Type 1		MD	0.00	0.50	-12.40	-12.90	0.50	0.50	7269.29	8502.95	0.00	0.00	8502.95	0.00	0.00	
		- sediment removal to 1.0m below seabed level	1.0	2467.32	0.00	0.90	-12.40	-13.30	Cat L/Type 1	MD	0.50	0.90	-12.90	-13.30	0.40	0.40							986.93
MEB8	-12.57	Maximum sediment removal to 0.5m below seabed level	0.5	140.45	SURFACE		Cat L/Type 1		MD	0.00	0.90	-12.57	-13.47	0.90	0.50	140.45	140.45	0.00	0.00	140.45	0.00	0.00	
					0.00	0.90	-12.57	-13.47	Cat L/Type 1	MD	0.90	1.90	-13.30	-14.30	1.00	0.00	0.00						
MEB9 <sup>(7)</sup>	-10.10	Reclamation works: - sediment removal to 1.0m below seabed level	1.0	2124.92	SURFACE		Cat M/Type 2		MD	0.00	1.00	-10.10	-11.10	1.00	1.00	2124.92	0.0	2124.92	0.00	0.0	2124.92	0.00	
					0.02	0.75	-10.12	-10.85	Cat L/Type 1	MD													
MEB10	-10.57	Reclamation works: - sediment removal to 1.0m below seabed level	1.0	3135.90	SURFACE		Cat L/Type 1		MD	No Sediment Encountered						-	0.0	0.00	0.00	0.0	0.00	0.00	
MEB11 <sup>(6)</sup>	-12.76	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	6074.30	SURFACE		Cat L/Type 1		DMD	0.00	0.50	-12.76	-13.26	0.50	0.50	8797.37	0.0	10975.83	544.61	0.0	11520.4	0.00	
		- sediment removal to 1.0m below seabed level	1.0	5446.15	0.00	0.90	-12.76	-13.66	Cat M/Type 2	DMD	0.50	0.90	-13.26	-13.66	0.40	0.40							2178.46
MEB12	-12.82	Maximum sediment removal to 0.5m below seabed level	0.5	72.84	SURFACE		Cat M/Type 2		NA	0.00	0.90	-12.82	-13.72	0.90	0.50	72.84	0.0	72.84	0.00	0.0	72.84	0.00	
					0.00	0.90	-12.82	-13.72	Cat M/Type 2	NA	0.90	1.30	-13.66	-14.06	0.40	0.10	544.61						
MEB13 <sup>(8)</sup>	-11.36	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	1698.22	SURFACE		Cat L/Type 1		DMD	0.00	0.50	-11.36	-11.86	0.50	0.50	2741.79	3785.4	0.00	0.00	3785.4	0.00	0.00	
MEB14 <sup>(9)</sup>	-9.52	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	1824.94	SURFACE		Cat M/Type 2		FILL/DMD	0.00	0.50	-9.52	-10.02	0.50	0.50	2177.40	1480.3	3164.29	0.00	1480.3	3164.29	0.00	
		- maximum sediment removal to 4m below seabed level	4.0	2819.68	0.50	0.90	-10.02	-10.42	0.40	0.40	281.97												
MEB15 <sup>(10)</sup>	-10.97	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	5780.39	SURFACE		Cat M/Type 2		FILL/DMD	0.00	0.50	-10.97	-11.47	0.50	0.50	7544.78	2919.0	12167.15	0.00	2919.0	12167.15	0.00	
		- maximum sediment removal to 1.5m below seabed level	1.5	914.76	0.50	0.90	-11.47	-11.87	0.40	0.40	1411.52												
MEB16 <sup>(11)</sup>	-12.44	Reclamation works: - maximum sediment removal to 4m below seabed level	4.0	11675.82	SURFACE		Cat L/Type 1		MD	1.90	2.90	-12.87	-13.87	1.00	1.00	2918.96	0.84	0.56	0.00	0.84	0.56	0.00	
		- maximum sediment removal to 1.5m below seabed level	1.5	1.39	2.90	5.90	-13.87	-16.87	Cat M/Type 2	MD	2.90	5.90	-13.87	-16.87	1.10	1.10							3210.85
MEB17 <sup>(12)</sup>	-11.71	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	2937.90	SURFACE		Cat L/Type 1		NA	0.00	0.90	-12.44	-13.34	0.90	0.90	0.84	9599.5	8690.15	0.00	9599.5	8690.15	0.00	
		- sediment removal to 1.0m below seabed level	1.0	403.69	0.25	0.90	-11.96	-12.61	NA	FILL													
MEB18 <sup>(13)</sup>	-9.14	Reclamation works: - maximum sediment removal to 0.5m below seabed level	0.5	3522.68	SURFACE		Cat M/Type 2		FILL/DMD	0.90	1.00	-12.61	-12.71	0.10	0.10	909.38	23636.2	20297.35	0.00	23636.2	20297.35	0.00	
		- maximum sediment removal to 3m below seabed level	3.0	56964.75	0.90	1.90	-10.04	-11.04	Cat L/Type 1	FILL/DMD	0.90	1.90	-10.04	-11.04	1.00	1.00							20297.35
MEB19 <sup>(6)(13)</sup>	-10.53	Reclamation works: - maximum sediment removal to 1.5m below seabed level	1.5	5421.32	SURFACE		Cat L/Type 1		FILL/DMD	1.00	1.90	-12.71	-13.61	0.90	0.90	7821.13	5267.0	13786.83	0.00	5267.0	13786.83	0.00	
		- maximum sediment removal to 4m below seabed level	4.0	21068.08	1.90	2.90	-11.04	-12.04	Cat M/Type 2	FILL/DMD	1.90	2.90	-13.61	-14.61	1.00	1.00							8690.15
MEB20 <sup>(13)</sup>	-12.68	Maximum sediment removal to 1.5m below seabed level	1.5	0.03	SURFACE		Cat L/Type 1		FILL/DMD	2.90	5.90	-12.44	-13.34	1.00	1.00	0.84	0.02	0.01	0.00	0.02	0.01	0.00	
					0.20	0.90	-12.88	-13.58	Cat L/Type 1	FILL/DMD	0.00	0.90	-12.68	-13.58	0.90	0.90							0.02
MEB21	-11.04	Maximum sediment removal to 3m below seabed level	3.0	11542.66	SURFACE		Cat M/Type 2		MD	0.90	1.90	-13.58	-14.58	1.00	0.60	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
					1.50	1.90	-14.18	-14.58	0.40	0.00	0.00												

Sampling Locations / Sampling Grid	Seabed Level (mPD)	Details of Proposed Sediment Removal Works			Sediment Sample Depth (m bgl)		Sediment Sample Depth (mPD)		Category / Disposal Type <sup>(2)</sup>	Descriptions <sup>(3)</sup>	Represented Depth (m bgl)		Represented Depth (mPD)		Thickness of Sediment (m)	Thickness of Sediment to be removed (m) [C]	Volume of Sediment (by Depth) (m <sup>3</sup> ) [D]	Volume of Sediment (by Grid & Category) (m <sup>3</sup> )			Volume of Sediment (by Grid & Disposal Type) (m <sup>3</sup> )		
		Works Type <sup>(1)</sup>	Sediment Removal Thickness (m) [A]	Sediment Removal Volume (m <sup>3</sup> ) [B]	From	To	From	To			From	To	From	To				Category L Sediment	Category M Sediment	Category H Sediment (does not require biological screening)	Type 1 - Open Sea Disposal	Type 2 - Confined Marine Disposal	Type 3 - Special Treatment/ Disposal
MEB22 <sup>(13)</sup>	-5.80	Maximum sediment removal to 3m below seabed level	3.0	25422.15	SURFACE				Cat L/Type 1	FILL/DMD	0.00	0.90	-5.80	-6.70	0.90	0.90	7626.64	16100.7	9321.45	0.000	16100.7	9321.45	0.0
					0.62	0.90	-6.42	-6.70	Cat L/Type 1	FILL/DMD	0.90	1.90	-6.70	-7.70	1.00	1.00	8474.05						
					1.90	2.90	-7.70	-8.70	Cat M/Type 2	FILL/DMD	1.90	2.90	-7.70	-8.70	1.00	1.00	8474.05						
					2.90	3.90	-8.70	-9.70	Cat M/Type 2	FILL/DMD	2.90	3.90	-8.70	-9.70	1.00	0.10	847.40						
					3.90	4.90	-9.70	-10.70	Cat L/Type 1	DMD	3.90	4.90	-9.70	-10.70	1.00	0.00	0.00						
MEB23	-9.70	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB24	-12.63	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB25	-8.07	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB26	-4.77	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB27	-11.45	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB28	-14.22	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB29	-13.64	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
MEB30	-13.95	-	-	-	-	-	-	NA		No Sediment Removal Expected						0.0	0.00	0.00	0.0	0.00	0.0		
<b>TOTAL (BY DISPOSAL TYPE)</b>																	<b>90517</b>	<b>92246</b>	<b>1838</b>	<b>90517</b>	<b>94084</b>	<b>0</b>	
<b>GRAND TOTAL</b>																				<b>184601</b>			

**Notes:**

- Refer to Drawing 60720423/B30/FIGURE 7.4 for works types
- Cat L: Category L sediment  
 Cat M: Category M sediment  
 Cat H: Category H sediment (≤ 10xLCEL)  
 Type 1: Type 1 - Open Sea Disposal  
 Type 2: Type 2 - Confined Marine Disposal  
 NA - Not applicable.
- MD: MARINE DEPOSIT  
 DMD: DISTURBED MARINE DEPOSIT  
 ALLU: ALLUVIUM  
 BD: BEACH DEPOSIT  
 NA: Not applicable  
 Descriptions based on borehole logs.
- "Volume of Sediment (by Depth)" [Column D] is calculated by the 'Sediment Removal Volume' [Column B] of the proposed works multiplying the ratio of 'Thickness of Sediment to be removed' [Column C] and 'Sediment Removal Thickness' of the proposed works [Column A] for each of the relevant Works Type.
- Sampling location MEB1 terminated at 0.52 m below seabed level due to encountering of hard materials. For conservative purpose, the result of the sediment sample at 0m bgl to 0.52m bgl as Category L / Type 1 sediment is proposed to represent the category and disposal type of the sediment layer from 0.50m bgl to 1.00m bgl.
- For sampling locations MEB6, MEB11 and MEB19, the surface grab samples were classified as Category L / Type 1 sediment while the vibrocore samples representing 0m bgl to 0.90m bgl were classified as Category MH / Type 2 sediment. As a conservative approach, the results of the higher contamination category (i.e. results from the vibrocore samples) were used to represent the top sediment profile.
- Sampling location MEB9 terminated at 0.85 m below seabed level due to encountering of hard materials. The surface grab sample was classified as Category M / Type 2 sediment while the vibrocore sample representing 0m bgl to 0.85m bgl was classified as Category L / Type 1 sediment. As a conservative approach, the result of the higher contamination category (i.e. result from the surface grab sample) was used to represent the the category and disposal type of the sediment layer from 0.00m bgl to 1.00m bgl.
- Sampling location MEB13 terminated at 0.10 m below seabed level due to encountering of hard materials. For conservative purpose, the result of the surface grab sediment sample as Category L / Type 1 sediment is proposed to represent the category and disposal type of the sediment layer from 0.00m bgl to 1.00m bgl.
- Only surface grab sample was collected for sampling location MEB14. The category and disposal type from 0.9m bgl to 4.0m bgl were determined based on the samples from the nearby sampling location (i.e. MEB18).
- Only surface grab sample was collected for sampling location MEB15. The category and disposal type from 0.9m bgl to 5.9m bgl were determined based on the samples from the nearby sampling location (i.e. MEB19).
- Only surface grab sample was collected for sampling location MEB16. The category and disposal type from 0.9m bgl to 1.9m bgl were determined based on the samples from the nearby sampling location (i.e. MEB20) as Category M / Type 2 sediment.
- Sampling location MEB17 terminated at 0.55 m below seabed level due to encountering of hard materials. For conservative purpose, the category and disposal type from 0.0m bgl to 3.0m bgl were determined based on the samples from the nearby sampling location (i.e. MEB18).
- The descriptions of the fill layers in borehole logs are CLAY and are similar to disturbed marine deposit. For conservative approach, the corresponding depths were included in the quantities estimations.

Assume socketed H piles is used for whole EPP site.

Design assumption:

- 1) Max. water depth =  $+5.6 - (-4.7) = 10.3\text{m}$  (for Block 1,2,3,4 only) , full height of water level.
- 2) Assume 7.5kPa live load for typical floor loading, 2kPa live load for Roof floor for maintenance.
- 3) Only Block 5,6,17 consist 2 storey, others only one storey.
- 4) Assume 10kPa Dead load for each floor
- 5) Assume Pile cap/basement slab thickness is 1.5m depth. (i.e.  $1.5 \times 25 = 37.5\text{kPa}$ )

For block 1 to 4,  
 Design load, Q1 = 160 kPa  
 Area of blocks, A1 = 15068 m<sup>2</sup>

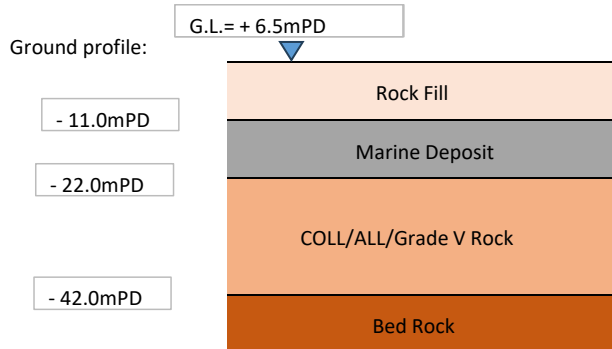
For block 5,6,17  
 Design load, Q2 = 74.5 kPa  
 Area of blocks, A2 = 1900 m<sup>2</sup>

For block 7-16, 18  
 Design load, Q3 = 57 kPa  
 Area of blocks, A3 = 4683 m<sup>2</sup>

Use UBP 305x305x223 kg/m,  
 Structural capacity =  $0.5 \times f_{yx} \times A$   
 = 6106 kN

total load =  $Q1 \times A1 + Q2 \times A2 + Q3 \times A3$   
 = 2819361 kN

Assume 80% of utilization of each socketed H piles  
 No. of piles required = 578 nos.



about 11m thick MD layer

Volume of sediment =  $\frac{1858.104 \text{ m}^3}{2000 \text{ m}^3}$   
 Say 2000 m<sup>3</sup>