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The preliminary GI results and marine sediment are for reference only and are under review for finalization. All information provided is subject to change in the final fieldwork report without notice. The preliminary log provided shall not be taken as representation in relation to the tendering, design, construction and operation of any contract works in relation to I-PARK2. Neither the HKSAR Government nor its agents or representatives owe any duty of care or is otherwise liable to the participants or anybody in respect of any errors, omissions, discrepancies and/or deficiencies relating to any information provided in the preliminary log. In case of discrepancies, the information in the tender documents shall prevail.

Contract Data Summary

Project Name & No.	Date : 11/06/2024 to 15/07/2024
Agreement No. CE 26/2022(EP) Development of Integrated Waste Management Facilities Phase 2 - IDC	Official Only
Site Name Agreement No. CE 26/2022(EP) Development of Integrated Waste Management Facilities Phase 2 - IDC	G.E.O. Data Bank No.
Customer SEPO(Infrastructure Planning)1, EPD	File Ref. CEDD STDCL-30-2015-3-2204-3

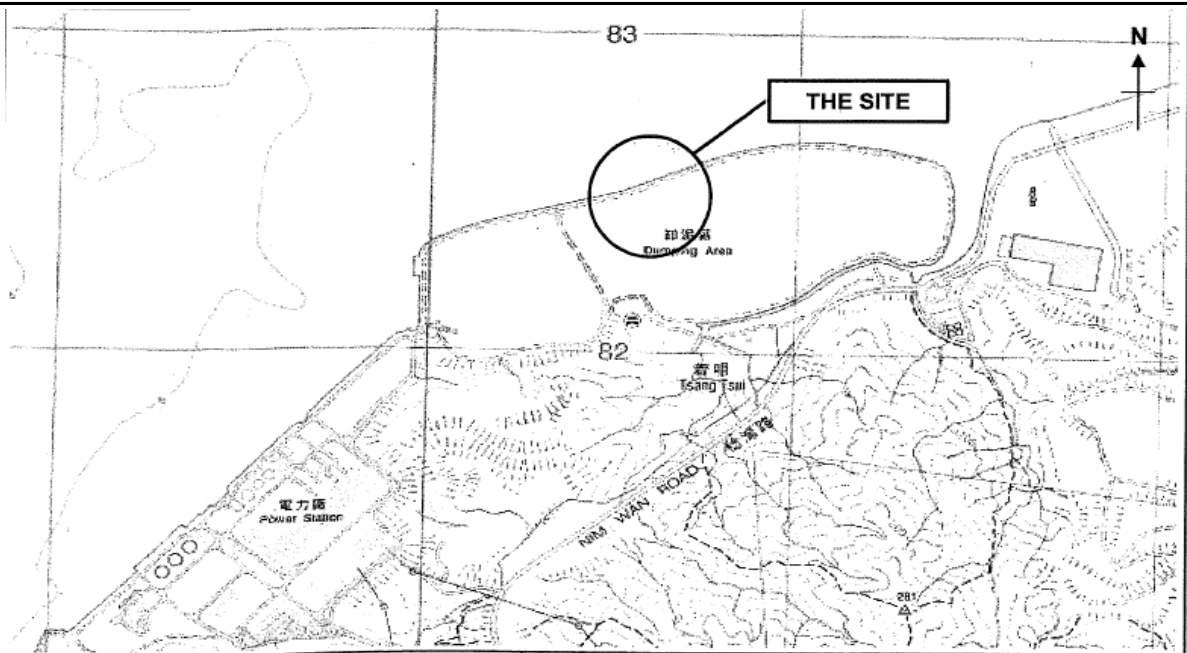
Field Work Summary

Drillholes Total No.	Method :	Date :	to
Pits / Trenches / Caissons : No.			
Probes : No.			
Piezometers : No.			
Insitu Tests : No.	Types		
Geophysics : Traverses	Type		

Laboratory Testing Summary

Total No. of Tests : 31		Date 11/06/2024 to 05/07/2024	
Soil	Physical Properties	LL 2	PL 4 PSD 5 MC
		SG 5	γ_m/γ_d
	Strength Tests	CU 5	CD UU Shear Box
		Loosely	
	Compaction & CBR Tests	Standard	Modified CBR
	Oedometer & Chem Tests	Cv 2	k Mass Loss 1
	Chemical Tests	pH 1	Sulphate 2 Chloride 1 Organic 1
Other	Resistivity 1	Redox Carbonate 1 Split	
Rock	γ	Pt load UC	Poisson Shear Box

Location Plan SCALE 1 : 20 000 Derived from : 20 000 Sheet _____
5 000 5 000 Sheet _____



	G.I.	Laboratory	GEOTECHNICAL ENGINEERING OFFICE
Contractor	DrilTech Ground Engineering Ltd	Gammon Construction Ltd	CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Service / Works Order No.	GE/2022/08.35A	GE/2022/04.097	HONG KONG

TEST CERTIFICATE
SUMMARY OF CHEMICAL TESTS
BS 1377 : Part 3 1990



Report No. : J9007-04.97

Customer : SEPO(Infrastructure Planning)1, EPD

Job No. : J9007

Service Order No. : GE/2022/04.097

Agreement No. CE 26/2022(EP)

Project : Development of Integrated Waste Management Facilities Phase 2 - IDC


Contract No.: GE/2022/04


Date : 11/06/2024

Borehole No.	Sample			Clause			Dry Mass Of Original Sample Passing 2mm Test Sieve (%)	Preparation Method	Description
				6	-				
No.	No.	Type	Depth (m)	Titration Carbonate Content CO ₂ (%)	Chloride Content (Mohr's method) ppm				
BH15	8	M	4.30 - 5.30	5.8			81	O.D.	Dark grey, slightly gravelly, slightly sandy SILT

Symbols : U - Undisturbed Sample; W - Water Sample; SPTL - SPT Split-Barrel Sample; A.R. - As Received;
 LB - Large Disturbed Sample; P - Piston Sample; D - Small Disturbed Sample; A.D. - Air Dried;
 BLK - Block Sample; M - Mazier Sample; IS - Insufficient Sample; O.D. - Oven Dried;
 W.S. - Wet Sieved.

Notes: 1. This test report is a simplified report and full details of the report are available from the laboratory, unless it is prohibited by law.
 2. This is an electronic test report. For any enquiries related to this report, please contact Public Works Laboratories (PWL).

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TEST CERTIFICATE

SUMMARY OF CHEMICAL TESTS

GEOSPEC 3 : 2001



Report No. : J9007-04.97

Customer : SEPO(Infrastructure Planning)1, EPD

Job No. : J9007

Service Order No. : GE/2022/04.097

Agreement No. CE 26/2022(EP)

Project : Development of Integrated Waste Management Facilities Phase 2 - IDC

Contract No.: GE/2022/04

Date : 11/06/2024

Borehole No.	Sample No. Type Depth (m)			Test Method							Dry Mass Of Original Sample Passing 2mm Test Sieve (%)	Preparation Method	Description	Sample Origin	
				9.1	9.2	9.3			9.4	9.5					
				Organic Matter Content (%)	Mass Loss On Ignition (%)	Acid Soluble Sulphate Content (%)	Water Soluble Sulphate Content (%)	Ground Water Sulphate Content (g/L)	Water Soluble Chloride Content (%)	pH Value					
BH15	8	M	4.30 - 5.30	1.6	5.7	0.98	0.35		<0.01		81	O.D.	Dark grey, slightly gravelly, slightly sandy SILT	FILL ‡	
BH15	8	M	4.30 - 5.30							8.3	81	A.D.	Dark grey, slightly gravelly, slightly sandy SILT	FILL ‡	

Symbols : U - Undisturbed Sample; P - Piston Sample; A.R. - As Received; Sampling History - Refer the Individual Test Report;
 LB - Large Disturbed Sample; M - Mazier Sample; H.P. - Hand Picked; Estimated Uncertainty - Refer the Individual Test Report.
 BLK - Block Sample; SPTL - SPT Split-Barrel Sample; A.D. - Air Dried; ‡ - Information provided by customer.
 W - Water Sample; D - Small Disturbed Sample; O.D. - Oven Dried; IS - Insufficient Sample;
 W.S. - Wet Sieved; Tf - To Follow on supplementary Report.

Notes: 1. This test report is a simplified report and full details of the report are available from the laboratory, unless it is prohibited by law.
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Technology Centre
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TEST CERTIFICATE

SUMMARY OF COMPRESSIBILITY CHARACTERISTICS OF SOIL TEST RESULTS

GEOSPEC 3 : 2001



Report No.: J9007-04.97

Customer : SEPO(Infrastructure Planning)1, EPD
 Agreement No. CE 26/2022(EP)

Job No. : J9007

Service Order No. : GE/2022/04.097

Project : Development of Integrated Waste Management Facilities Phase 2 - IDC

Contract No. : GE/2022/04


Date : 11/06/2024

Borehole No.	Sample			Δ Initial Moisture Content (%)	Initial Bulk Density (Mg/m ³)	Initial Dry Density (Mg/m ³)	Particle Density		Oedometer Test Test 14.1		Isotropic Compression Test in Triaxial Cell Test 14.2		Description	Sample Origin
	No.	Type	Depth (m)				+ Test Method	(Mg/m ³)	Initial Void Ratio (e _o)	Compression Index c _c	Initial Void Ratio (e _o)	Compression Index c _c		
BH15	24	M	13.40 - 14.40	50B	1.71	1.14			1.29	-			Dark grey, slightly gravelly, slightly sandy SILT/CLAY	MD [‡]
BH15	31	M	17.40 - 18.40	40B	1.81	1.29			1.07	-			Brown, dappled grey, slightly sandy SILT/CLAY	ALLU [‡]

Legend : Δ = Test Method in accordance with GEOSPEC 3 : 2001 Test 5.1 Moisture Content at 45°C ± 5°C (A), Test 5.2 Moisture Content at 105°C ± 5°C (B), Test 5.3 Comparative Moisture Content 45/105°C ± 5°C (C)
 + = Test Method in accordance with GEOSPEC 3 : 2001 Test 7.1 Gas Jar Method (1), Test 7.2 Small Pyknometer Method (2)

Symbols : U - Undisturbed Sample; P - Piston Sample; BLK - Block Sample; PT - Portable triple tube Sample; ‡ - Information provided by customer.
 LB - Large Disturbed Sample; M - Mazier Sample; D - Small Disturbed Sample; Sampling History - Refer the Individual Test Report; Estimated Uncertainty - Refer the Individual Test Report.

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TEST CERTIFICATE

SUMMARY OF SOIL CLASSIFICATION TEST RESULT

GEOSPEC 3 : 2001



Report No : J9007-04.97

Customer : SEPO(Infrastructure Planning)1, EPD

Job No. : J9007

Service Order No. : GE/2022/04.097

Agreement No. CE 26/2022(EP)

Project : Development of Integrated Waste Management Facilities Phase 2 - IDC

Contract No.: GE/2022/04

Date : 11/06/2024


Borehole No.	Sample			Δ Moisture Content (%)	Test 6.1 Liquid Limit (%)	Test 6.1 Plastic Limit (%)	Test 6.1 Plasticity Index (%)	Test 6.2 Liquidity Index	Passing 425µm Test Sieve (%)	Preparation Method	Particle Size Distribution				Description	Sample Origin	
	No.	Type	Depth (m)								# Test Method	Percentage					
												Gravel (%)	Sand (%)	Silt (%)			Clay (%)
BH15	8	M	4.30 - 5.30	66B [^]		N.P.			72	W.S.	1,5,7	19	24	55	2	Dark grey, slightly gravelly, slightly sandy SILT	FILL [‡]
BH15	20	M	11.40 - 12.40	63B [^]		N.P.			67	W.S.	1,5,7	27	23	47	3	Grey, slightly sandy, slightly gravelly SILT	FILL [‡]
BH15	24	M	13.40 - 14.40	64B [^]	76	34	42	0.96	86	W.S.	1,5,7	6	25	45	24	Dark grey, slightly gravelly, slightly sandy SILT/CLAY	MD [‡]
BH15	27	M	15.40 - 16.40								1,5,7	17	27	19	37	Brownish grey, slightly gravelly, slightly sandy SILT/CLAY	ALLU [‡]
BH15	31	M	17.40 - 18.40	41B [^]	48	25	23	0.79	95	W.S.	1,5,7	1	10	33	56	Brown, dappled grey, slightly sandy SILT/CLAY	ALLU [‡]


Legend : Test Method in accordance with GEOSPEC 3 : 2001 Test 5.1 Moisture Content at 45°C ± 5°C (A), Test 5.2 Moisture Content at 105°C ± 5°C (B), Test 5.3 Comparative Moisture Content 45/105°C ± 5°C (C)

= Test Method in accordance with GEOSPEC 3 : 2001 Test 8.1 (1), 8.2 (2), 8.3 (3), 8.4 (4), 8.5 (5), 8.6 (6), 8.7 (7).

Symbols : U - Undisturbed Sample; P - Piston Sample; N.P. - Non Plastic; A.D. - Air Dried; Sampling History - Refer the Individual Test Report;
 LB - Large Disturbed Sample; M - Mazier Sample; A.R. - As Received; O.D. - Oven Dried; Estimated Uncertainty - Refer the Individual Test Report.
 BLK - Block Sample; D - Small Disturbed Sample; H.P. - Hand Picked; W.S. - Wet Sieved; ‡ - Information provided by customer.
 SPTL - SPT Split-Barrel Sample; PT - Portable triple tube Sample; ^ - Moisture Content for A.L. Test. IS - Insufficient Sample; Tf - To Follow on supplementary Report.

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TEST CERTIFICATE

SUMMARY OF TRIAXIAL TEST RESULTS

GEOSPEC 3 : 2001



Customer : SEPO(Infrastructure Planning)1, EPD

Job No. : J9007

Report No.: J9007-04.97
Service Order No. : GE/2022/04.097

Agreement No. CE 26/2022(EP)
Project : Development of Integrated Waste Management Facilities Phase 2 - IDC

Contract No.: GE/2022/04


Date : 11/06/2024


Borehole No.				Δ Initial Moisture Content (%)	Initial Bulk Density (Mg/m ³)	Initial Dry Density (Mg/m ³)	Particle Density		Triaxial Test					Failure Mode	Description	Sample Origin
	No.	Type	Depth (m)				+ Test Method	(Mg/m ³)	* Test Method	Axial Strain (%)	Corrected Deviator Stress (kN/m ²)	s' (kN/m ²)	t (kN/m ²)			
BH15	8	M	4.30 - 5.30	44B	1.48	1.03	2	2.22	2S	8.3	604	447	302	IN	Dark grey, gravelly, silty SAND	FILL †
BH15	20	M	11.40 - 12.40	61B	1.58	0.98	2	2.41	2MU	3.7 6.6 10.4	221 350 530	158 269 418	110 175 265	PL	Grey, slightly sandy, slightly gravelly SILT	FILL †
BH15	24	M	13.40 - 14.40	73B	1.57	0.91	2	2.61	2MU	3.8 11.2 18.0	69 118 174	61 114 172	34 59 87	PL	Dark grey, slightly gravelly, slightly sandy SILT/CLAY	MD †
BH15	27	M	15.40 - 16.40	24B	1.98	1.60	2	2.62	2S	19.1	208	206	104	PL	Brownish grey, slightly gravelly, slightly sandy SILT/CLAY	ALLU †
BH15	31	M	17.40 - 18.40	40B	1.82	1.31	2	2.67	2S	7.9	153	154	76	B	Brown, dappled grey, slightly sandy SILT/CLAY	ALLU †

Legend : Δ = Test Method in accordance with GEOSPEC 3 : 2001 Test 5.1 Moisture Content at 45°C ± 5°C (A), Test 5.2 Moisture Content at 105°C ± 5°C (B), Test 5.3 Comparative Moisture Content 45/105°C ± 5°C (C)
 + = Test Method in accordance with GEOSPEC3 : 2001 Test 7.1 Gas Jar Method (1), Test 7.2 Small Pyknometer Method (2)
 * = Test Method in accordance with GEOSPEC3 : 2001 Test 15.1 Unconsolidation Undrained Method (1), Test 15.2 Consolidation Undrained Triaxial Method (2), Test 15.3 Consolidation Drained Triaxial Method (3)

Symbols : U - Undisturbed Sample; P - Piston Sample; S = Single Stage; Sampling History - Refer the Individual Test Report;
 LB - Large Disturbed Sample; M - Mazier Sample; MU = Multi - Stage; Estimated Uncertainty - Refer the Individual Test Report.
 BLK - Block Sample; D - Small Disturbed Sample; B = Brittle Failure; † - Information provided by customer.
 IN = Intermediate Failure; PL = Plastic Failure

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