

SUMMARY OF LABORATORY TEST RESULTS

Project : **SITE INVESTIGATION WORKS FROM PRINSEP ST TO DUCHESS RD (5)**



Borehole No.		DT/2322									
Geological Formation		E	F1			M	F2	G(VI)			
Sample No.		TW1	TW2	SPT4	TW3	PS1	TW5	TW7	TW8	MZ1	
Sample Depth (m)	From	3.00	5.00	9.90	11.00	13.00	17.00	23.00	26.00	29.00	
	To	3.90	5.90	10.35	11.90	13.90	17.90	23.90	26.45	30.00	
Moisture Content		%	86	25	-	57	27	32	30	33	32
Particle Density		Mg/m ³	-	-	-	-	-	-	-	-	-
Bulk Density		Mg/m ³	1.51	1.91	-	1.69	1.88	1.84	1.80	1.84	1.81
Dry Density		Mg/m ³	0.81	1.53	-	1.08	1.48	1.39	1.38	1.38	1.37
Atterberg Limits	Liquid Limit	%	89	-	-	80	34	-	-	-	-
	Plastic Limit	%	35	-	-	31	20	-	-	-	-
	Plasticity Index	%	54	-	-	49	14	-	-	-	-
Grain Size Analysis	Gravel	%	0	0	16	0	0	0	3	0	0
	Sand	%	59	87	81	0	61	31	32	33	42
	Silt	%	35	-	3	44	17	49	53	55	46
	Clay	%	6	13	-	56	22	20	12	12	12
Unconfined Compression Test	Unconfined Compressive Strength	MN/m ²	-	-	-	-	-	-	-	-	-
	Strain at failure.	%	-	-	-	-	-	-	-	-	-
Triaxial Compression Test	Internal friction	(^o)	@	@	-	24	-	31	-	-	-
	Cohesion Intercept.	kPa	@	@	-	4	-	0	-	-	-
	Condition of drainage		CU	CD	-	CU	-	CU	-	-	-
Consolidation Test	Preconsolidation Pressure	kPa	52	-	-	135	140	-	-	-	-
	Compression Index		0.878	-	-	0.438	0.21	-	-	-	-
Permeability Test	Coefficient of Permeability	m/s	-	-	-	-	-	-	-	-	-
Point Load Test	Point Load Index	MN/m ²	-	-	-	-	-	-	-	-	-
Porosity	Porosity		-	-	-	-	-	-	-	-	-
Abrasive Test	Paddle Abrasiveness		-	-	-	-	-	-	-	-	-
	Cherchar Abrasivity		-	-	-	-	-	-	-	-	-
Slake Dura. Index	Slake Durability Index	%	-	-	-	-	-	-	-	-	-
Chemical Test	pH value		-	-	-	-	-	-	-	-	-
	Organic Matter	%	##	-	-	-	-	-	-	-	-
	Water-soluble Sulphate	%	-	-	-	-	-	-	-	-	-
	Total sulphate content as SO ₃	g/l	-	-	-	-	-	-	-	-	-
	Chloride content as Cl	%	-	-	-	-	-	-	-	-	-
Toxicity Test	Arsenic	mg/kg	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	-	-	-	-	-	-	-	-	-
Cyanide	mg/kg	-	-	-	-	-	-	-	-	-	

Grain size analysis - *Silt&Clay

- @ Test abandoned; insufficient sample
- @@ Test abandoned due to too stiff sample
- # One specimen only; insufficient sample
- ## Test abandoned; insufficient good quality sample
- + Test abandoned; sand

Note:

Checked by :

SOIL & FOUNDATION (PTE) LTD