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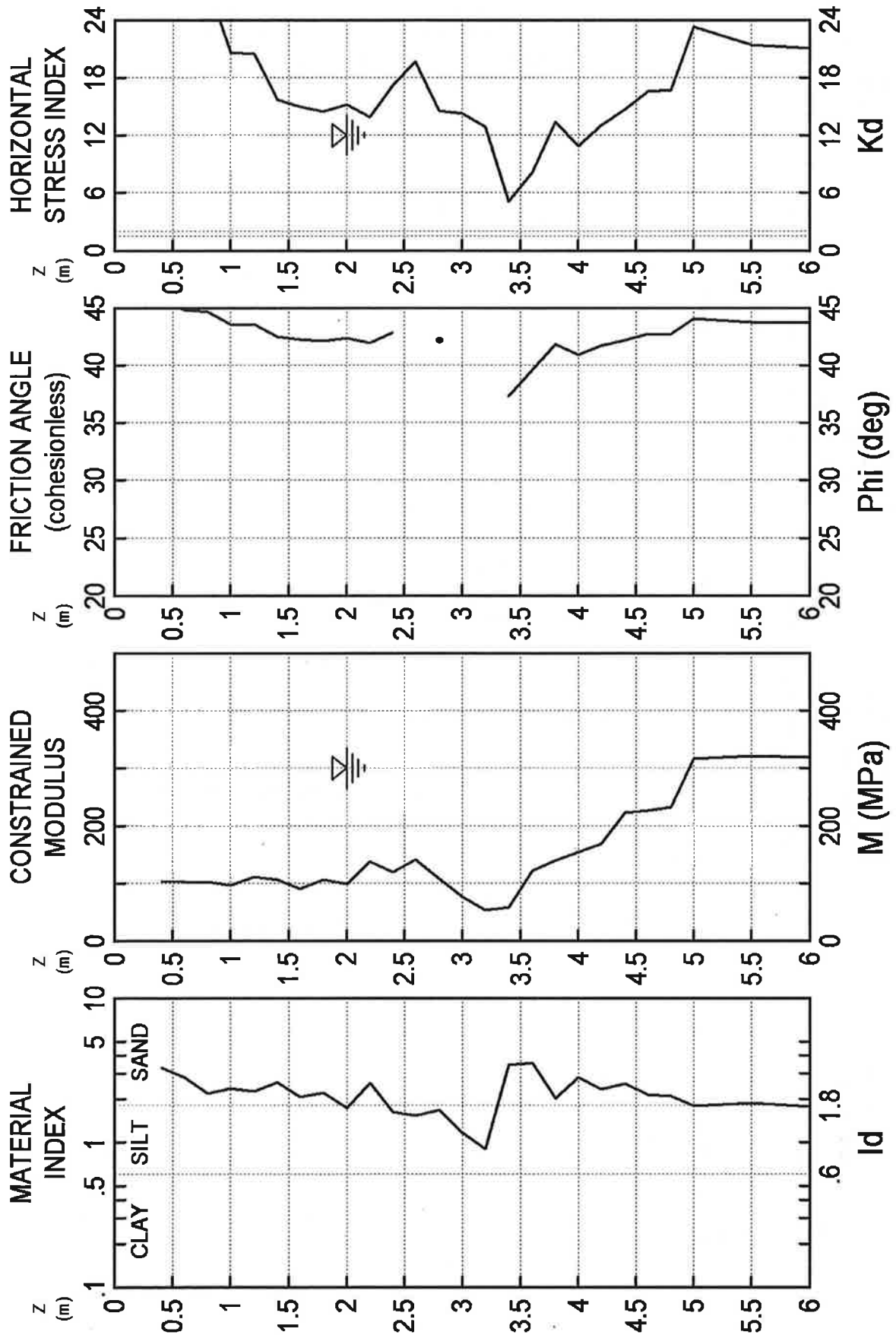
Insitu Geotech Services (IGS) Golder Associates
Rapid Transit Gold Coast, QLD

INTERPRETED GEOTECHNICAL PARAMETERS

TEST
D07

5 SEP 2011

DILATOMETER TEST (DMT)



D07	LEGEND Z = Depth Below Ground Level Po,P1,P2 = Corrected A,B,C readings Id = Material Index Ed = Dilatometer Modulus Ud = Pore Press. Index = (P2-Uo)/(Po-Uo) Gamma = Bulk unit weight Sigma' = Effective overb. stress Uo = Pore pressure	INTERPRETED PARAMETERS Phi = Safe floor value of Friction Angle Ko = In situ earth press. coeff. M = Constrained modulus (at Sigma') Cu = Undrained shear strength Ocr = Overconsolidation ratio (OCR = "relative OCR"- generally realistic. If accurate independent OCR available, apply suitable factor)	SOUNDING PARAMETERS DeltaA = 12 kPa DeltaB = 55 kPa GammaTop = 17.0 kN/m^3 FactorEd = 34.7 Zm = 0.0 kPa Zabs = 0.0 m Zw = 2.0 m
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WaterTable at 2.00 m
Reduction formulae according to Marchetti, ASCE Geot.Jnl.Mar. 1980, Vol.109, 299-321; Phi according to TC16 ISSMGE, 2001

Z (m)	A (kPa)	B (kPa)	C (kPa)	Po (kPa)	P1 (kPa)	P2 (kPa)	Gamma (kN/m^3)	Sigma' (kPa)	Uo (kPa)	Id	Kd	Ed (MPa)	Ud	Ko	Ocr	Phi (Deg)	M (MPa)	Cu (kPa)	D07 DESCRIPTION
0.4	270	1100		244	1045		18.6	7	0	3.29	35.9	27.8				46	103.1		SILTY SAND
0.6	330	1200		302	1145		18.6	11	0	2.79	28.7	29.3				45	102.3		SILTY SAND
0.8	420	1300		391	1245		18.6	14	0	2.18	27.5	29.6				45	102.4		SILTY SAND
1.0	400	1300		370	1245		18.6	18	0	2.36	20.6	30.4				44	96.6		SILTY SAND
1.2	480	1500		444	1445		19.6	22	0	2.25	20.5	34.7				44	110.4		SILTY SAND
1.4	440	1500		402	1445		18.6	26	0	2.59	15.7	36.2				42	105.9		SILTY SAND
1.6	470	1400		439	1345		19.6	29	0	2.06	14.9	31.4				42	90.6		SILTY SAND
1.8	520	1600		481	1545		19.6	33	0	2.21	14.5	36.9				42	105.2		SILTY SAND
2.0	600	1600		565	1545		19.1	37	0	1.73	15.2	34.0				42	98.4		SANDY SILT
2.2	600	2000		545	1945		19.6	39	2	2.58	13.9	48.6				42	136.6		SILTY SAND
2.4	750	1900		708	1845		19.1	41	4	1.62	17.2	39.5				43	118.8		SANDY SILT
2.6	900	2200		850	2145		19.1	43	6	1.53	19.7	44.9					141.1		SANDY SILT
2.8	700	1800		660	1745		19.1	45	8	1.66	14.6	37.6				42	107.5		SANDY SILT
3.0	700	1500		675	1445		19.1	47	10	1.16	14.3	26.7		2.3	21.5		75.8	120	SILT
3.2	650	1250		635	1195		19.1	48	12	0.90	12.9	19.4		2.1	18.3		53.2	109	SILT
3.4	300	1200		270	1145		18.6	50	14	3.41	5.1	30.4				37	58.1		SAND
3.6	500	2000		440	1945		19.6	52	16	3.54	8.1	52.2				40	121.2		SAND
3.8	800	2250		743	2195		19.6	54	18	2.00	13.4	50.4				42	140.0		SILTY SAND
4.0	700	2400		630	2345		19.6	56	20	2.81	10.9	59.5				41	153.6		SILTY SAND
4.2	850	2600		778	2545		19.6	58	22	2.34	13.0	61.3				42	168.7		SILTY SAND
4.4	1000	3200		905	3145		21.1	60	24	2.54	14.7	77.7				42	222.7		SILTY SAND
4.6	1150	3300		1058	3245		21.1	62	26	2.12	16.6	75.9				43	226.1		SILTY SAND
4.8	1200	3400		1105	3345		21.1	64	27	2.08	16.7	77.7				43	232.1		SILTY SAND
5.0	1700	4400		1580	4345		20.6	67	29	1.78	23.2	95.9				44	316.4		SANDY SILT
5.5	1700	4500		1575	4445		21.1	72	34	1.86	21.4	99.6				44	320.5		SILTY SAND
6.0	1800	4600		1675	4545		20.6	78	39	1.75	21.0	99.6				44	319.1		SANDY SILT