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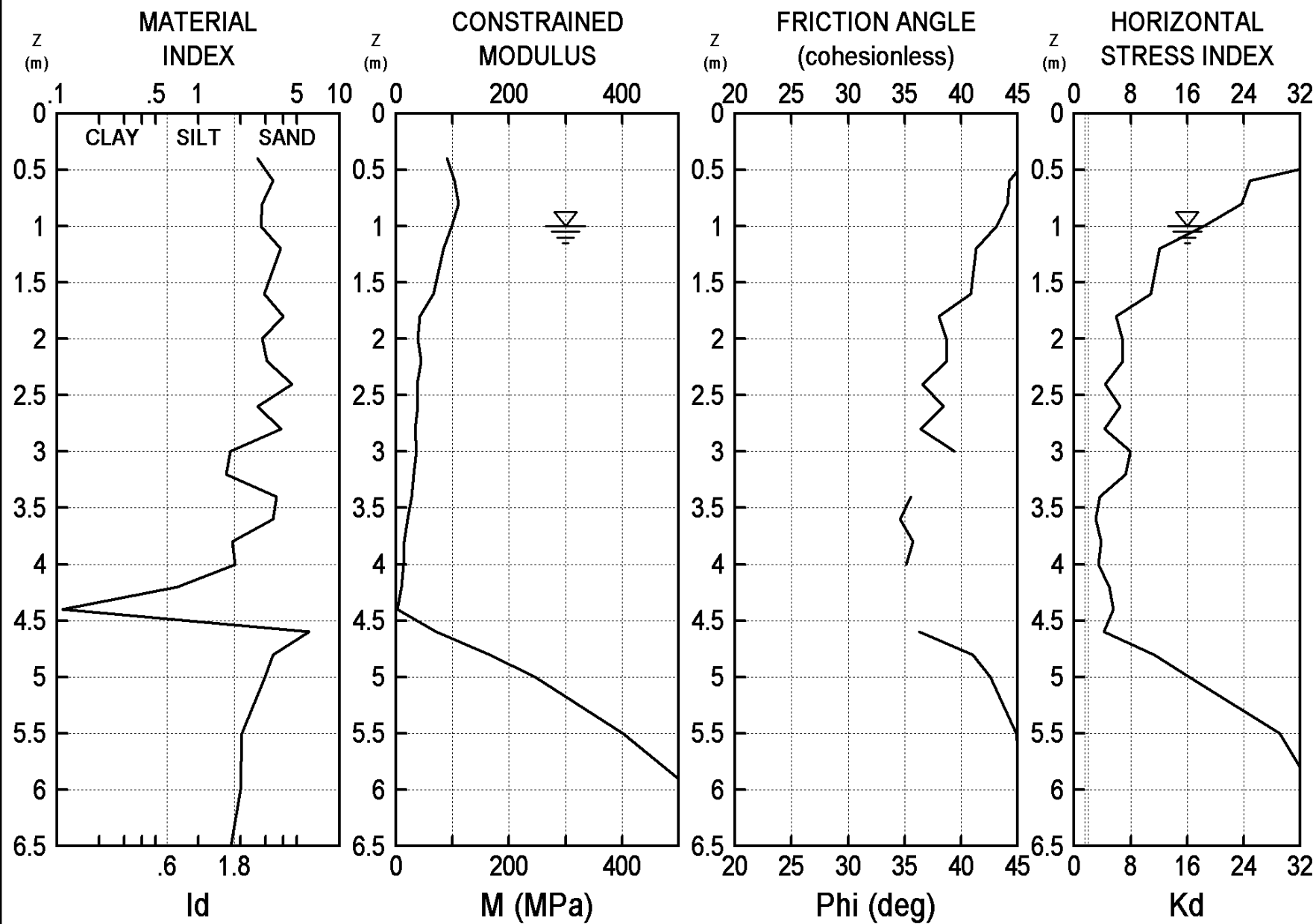
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Insitu Geotech Services (IGS)		Golder Associates
Rapid Transit	Gold Coast, QLD	
INTERPRETED GEOTECHNICAL PARAMETERS		TEST D10 6 SEP 2011



D10	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 = 14 kPa DeltaB = 50 kPa GammaTop = 17.0 kN/m^3 FactorEd = 34.7 Zm = 0.0 kPa Zabs = 0.0 m Zw = 1.0 m
6 SEP 2011			
Insitu Geotech Services (IGS) Golder Associates Rapid Transit Gold Coast, QLD GPS format - GDA			

WaterTable at 1.00 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)	D10 DESCRIPTION
0.4	280	1000		261	950		18.6	7	0	2.64	38.4	23.9				46	90.2		SILTY SAND
0.6	290	1200		262	1150		18.6	11	0	3.39	24.9	30.8				44	103.6		SAND
0.8	370	1350		338	1300		18.6	14	0	2.84	23.7	33.4				44	110.7		SILTY SAND
1.0	360	1300		330	1250		18.6	18	0	2.79	18.4	31.9				43	98.2		SILTY SAND
1.2	270	1200		241	1150		18.6	20	2	3.81	12.1	31.6				41	84.5		SAND
1.6	280	1050		259	1000		18.6	23	6	2.93	10.9	25.7				41	66.3		SILTY SAND
1.8	170	800		156	750		17.7	25	8	4.02	5.9	20.6				38	42.1		SAND
2.0	200	750		190	700		17.7	27	10	2.84	6.8	17.7				39	38.2		SILTY SAND
2.2	220	850		206	800		17.7	28	12	3.06	6.9	20.6				39	44.9		SILTY SAND
2.4	160	800		145	750		17.7	30	14	4.60	4.4	21.0				37	37.6		SAND
2.6	230	800		219	750		17.7	31	16	2.62	6.5	18.4				38	38.9		SILTY SAND
2.8	170	750		158	700		17.7	33	18	3.86	4.3	18.8				36	33.1		SAND
3.0	300	800		292	750		17.7	34	20	1.68	7.9	15.9				39	36.2		SANDY SILT
3.2	290	750		284	700		17.7	36	22	1.58	7.3	14.4					31.7		SANDY SILT
3.4	170	700		161	650		17.7	38	24	3.57	3.6	17.0				36	27.6		SAND
3.6	150	600		145	550		17.7	39	26	3.40	3.0	14.1				35	20.6		SAND
3.8	180	500		181	450		16.7	41	27	1.75	3.8	9.3				36	14.7		SANDY SILT
4.0	170	480		172	430		17.7	42	29	1.82	3.4	9.0				35	13.2		SILTY SAND
4.2	240	450		247	400		16.7	44	31	0.71	4.9	5.3		1.1	4.1		9.5	30	CLAYEY SILT
4.4	270	360		283	310		14.7	45	33	0.11	5.5	0.9		1.2	4.9		1.8	35	MUD
4.6	270	1450		228	1400		18.6	46	35	6.08	4.2	40.7				36	70.9		SAND
4.8	650	2450		577	2400		19.6	48	37	3.38	11.3	63.3				41	165.4		SAND
5.0	950	3300		850	3250		21.1	50	39	2.96	16.3	83.3				43	246.7		SILTY SAND
5.5	1800	5000		1657	4950		21.1	55	44	2.04	29.1	114.3				45	401.2		SILTY SAND
6.0	2300	6300		2117	6250		21.1	61	49	2.00	33.9	143.4				45	524.2		SILTY SAND
6.5	2700	6750		2515	6700		20.6	67	54	1.70	36.9	145.2				46	542.6		SANDY SILT