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Engineering Borehole Log

BHX2

Sheet: 1 of 4

Commenced: 22/09/2015
Completed: 23/09/2015
Logged By: DJ
Checked By: PM

Easting (MGA94 56): 530365.833
Northing (MGA94 56): 6918507.257
Surface RL (m): 17.764
Inclination (°): 90

Client: Seymour Whyte Constructions Pty Ltd
Project: M1 Exit 54 Coomera Interchange Upgrade
Project No.: 1831
Location: W202 pile P16

DRILLING INFORMATION					MATERIAL DESCRIPTION		STRENGTH		OBSERVATIONS AND TESTING		STRATA					
Groundwater	Method	(TCR) RQD	Samples	Depth (m)	USC / Weathering	Soil Description Soil type, colour, plasticity and particle characteristics, secondary and minor components Rock Description Rock type, colour, grain size, structure	Cons-Density Strength	Defect Spacing (mm)			Additional Comments Origin, Structure, Defect Descriptions	Testing Results	Graphic Log	Elevation (m)	Depth (m)	
Groundwater Not Encountered	Auger TC-bit			0	CL-CH	FILL: Sandy Gravelly CLAY (CL-CH): Orange brown, medium plasticity, fine to medium grained sand, fine to medium grained sub-angular gravel, moist	F	6	20	200	2m	600	Fill		0	
				1	CL-CH	FILL: Silty CLAY (CL-CH): Orange brown, medium plasticity, trace gravel, moist	St						SPT 1.00 2, 4, 5 N=9		1	
				2	CH	FILL: Silty CLAY (CH): Pale grey mottled orange brown, high plasticity, with sub-angular gravel, moist							SPT 2.50 3, 5, 6 N=11		2	
				3	CH	FILL: Silty CLAY (CH): Orange mottled grey, high plasticity, trace fine to medium grained sub-angular gravel, moist	VSt						SPT 4.00 3, 4, 7 N=11		3	
				4	CH								SPT 5.50 2, 4, 4 N=8		4	
				5	CH										5	
				6	CH	Silty CLAY (CH): Grey to dark grey mottled orange brown, high plasticity, moist						Colluvium		12	6	

Additional Remarks

Driller: Schneider Drilling
Drill Rig:

QMS-6021 0-A

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Groundwater Not Encountered	WB blade-bit		SPT	6	CH	(continued) Silty CLAY (CH): Grey to dark grey mottled orange brown, high plasticity, moist	VSt		(continued) Colluvium			6	6								
					CH	Silty CLAY (CH): Grey mottled dark grey and orange brown, high plasticity, moist			Residual Soil												
				7	XW	ARGILLITE: Grey, pale grey, dark grey, mottled orange brown, some interbedded sandstone and occasional ironstone gravel	ELS	Weathered Rock (Neranleigh Fernvale)	SPT 7.00 2, 14, 19 N=33		11	7									
						ARGILLITE: Pale grey mottled orange brown	VLS														
	NMLC	(100) 84		8	MW	IRONSTONE: Maroon, quartz infill SANDSTONE: Pale brown, fine to medium grained, many closed ironstained joints, some dark grey argillite inclusions	HS		7.66 Jo 45° Ir Ro cn 7.68-7.70 Cs 10-30mm 7.77 Jo x2 20-30° Pl Ro vn Fe clay			10	8								
					MS	8.06 Jo 10° Ir Sm cn															
						8.40 Jo 45° Pl Sm sn Fe 8.49 Jo 45° Pl Sm sn Fe 8.58 Jo 60° Pl cg clay 2-3mm															
				</																	

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Groundwater Not Encountered	NMLC	(100) 88		12	MW	(continued) SANDSTONE: Pale brown grey mottled orange brown, fine to medium grained, minor argillite inclusions, joints typically limonite coated	MS-HS		12.07 Jo 20° St Sm sn limonite			12	
									12.30 Jo 40° Ir Ro sn Fe				
									12.43 Jo 20° Ir Ro sn limonite				
									12.76 Jo 70° Pl Sm sn Fe				
									12.78 Jo 40° Pl cg clay 2-7mm				
				13					13.02 Jo 30° Ir Ro cn				
						SANDSTONE: Brown grey, fine to medium grained, some ironstained healed joints (probable foliation)			13.25 Jo 60° Ir clay 5-30mm				
									13.72 Jo 60° Un Ro sn Fe				
									13.76 Jo 20° Ir Sm sn Fe				
				14					13.94 Jo 20° Pl Ro sn Fe				
									14.04-14.08 Cs 40mm				
									14.17 Jo 30° Ir Ro cg clay 3mm				
				15	MW-SW	SANDSTONE: Pale grey to grey, fine to medium grained, ironstained joints	HS		14.65 Jo 45° Pl Sm sn Fe			15	
									14.70 Jo 45° Pl Sm sn Fe				
									14.87 Jo 80° St Ro cg clay 3mm				
									15.03 Jo 60° Ir Ro sn Fe Quartz				
									15.04 Jo 75° Ir Ro sn Fe Quartz				
									15.63 Jo 25° Ir Ro sn Fe				
									15.77 Jo 45° Pl Ro sn Fe				
				16					15.99 Jo 50° Pl Ro cn				
									16.09 Jo 15° St Ro sn Fe				
									16.24 Jo 10° Un Ro cn				
						16.40 m: 10 mm quartz vein at 80°			16.48 Jo 50° Pl cg clay 5-10mm				
									16.71 Jo 20° Pl Ro sn Fe				
				17	HS	17.10 to 17.10 m: minor dark grey argillite bands at 30-40°	HS		17.22 Jo 70° Pl Ro vn Fe clay			17	
									17.60 Jo 30° St Ro sn Fe				
									17.77 Jo 75° Un Sm sn Fe				
									17.90 Jo 75° Ir Ro sn Fe				
				18	HS-VHS	SANDSTONE (70%) and ARGILLITE (30%): Pale grey, dark grey, fine grained sandstone, argillite bedded at 20-60°	HS-VHS					18	

Additional Remarks

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Drill Rig:

QMS-6021 0-A

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ndwater Not Encour	NMLC	(100) 72		18	MW-SW	(continued) SANDSTONE (70%) and ARGILLITE (30%): Pale grey, dark grey, fine grained sandstone, argillite bedded at 20-60°	HS-VHS						

Additional Remarks

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Drill Rig:

QMS-6021.0-A

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Checked: JP

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Inclination (°): 90

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Project No.: 1831
Location: W202 pile P16

Start Depth (m): 7.62
End Depth (m): 18.55

Start RL (AHD): 10.14
End RL (AHD): -0.79

