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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH20
SHEET 1 of 3
REFERENCE No 11854

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Abutment B - Right Hand Side COORDINATES 286972.5 E; 7024365.6 N
PROJECT No FG6169 SURFACE R.L. 315.83m PLUNGE DATE STARTED 26/6/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING DATE COMPLETED 26/6/14 DRILLER North Coast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	315.83												
0.30	315.53				A	Silty CLAY (TOPSOIL) Dark grey black, moist, soft. Low plasticity. Some sand, gravel and organic matter.	(CL)						
1					B	Silty CLAY (ALLUVIAL) Dark grey, moist, firm to very stiff. High plasticity.	(CH)					1,2,2 N=4; LL = 54; PI = 35; LS = 16.4; %Pass 2.36mm = 97 %Pass 0.075mm = 70	SPT
2					C	Sandy CLAY (ALLUVIAL) Grey brown, moist, very stiff to hard. Low plasticity.	(CL)					3,6,10 N=16; LL = 57; PI = 35; LS = 17.4; %Pass 2.36mm = 100 %Pass 0.075mm = 77	SPT
2.90	312.93				D	4.00m: High content of fine to coarse grained sand.	(CL)					5,7,12 N=19	SPT
3					E	Clayey SAND (ALLUVIAL) Pale grey, brown, moist, dense. Fine grained sand.	(SC)					11,21,27 N=48	SPT
4					F	6.00m: Fine to medium grained sand.	(SC)					8,14,17 N=31	SPT
4.80	311.03				G	7.00m: Fine to coarse grained sand and trace fine gravel.	(SC)					13,18,24 N=42	SPT
5					H		(SC)					14,19,11 N=30	SPT
6					I		(SC)					9,12,18 N=30	SPT
7					J	CLAYSTONE (J_Kk) XW: Recovered as white, pale grey, moist to dry, hard, silty clay. Low plasticity.	XW					11,18,26 N=44	SPT
8													
8.50	307.33												
9													
10													

REMARKS J_Kk = Kumbarilla Beds

* For this specimen, the load cell used does not comply with the test method requirements.

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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH		DEFECT SPACING (mm)		GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
							EH	EH	VC	VC				
10	305.83				CLAYSTONE (J_Kk) XW: (Cont'd)	XW						10,17,29 N=46	SPT	
11				L									12,30/140mm	SPT
12				M									10,16,19 N=35	SPT
13				N									17,25,26 N=51	SPT
14				P			14.00m: Colour change to pale grey, brown, yellow. Some fine gravel sized HW rock fragments.						30/130mm	SPT
15	300.63			Q							30/120mm	SPT		
16			(100)		CLAYSTONE (J_Kk) HW: White, yellow, dark brown, fine grained, thickly bedded, very low to low strength. Some HW sandstone zones. Some dark brown patches of iron oxide precipitate. Defects: -Js; 5° (1/m); Defects are generally planar to irregular, rough, weathered and clay infilled.	HW					Is(50) = 0.03MPa; * Is(50) = 0.03MPa; *	D (15.50m) A (15.56m)	UCS	
17			100 (100)			HW								
18			100 (100)			XW						Is(50) = 0.12MPa; * Is(50) = 0.03MPa; *	D (17.56m) A (17.60m)	
19			100 (100)			XW HW XW HW					18.00m-18.20m: XW Claystone. Extremely low strength. 18.85m-19.00m: XW Claystone. Extremely low strength. 19.08m-19.24m: XW Claystone. Extremely low strength.			
20			100 (100)			XW						Is(50) = 0.02MPa; * Is(50) = 0.04MPa; *	D (19.69m) A (19.73m)	

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20	295.83					CLAYSTONE (J_Kk) HW: (Cont'd)		XW							
21	294.65		100			Borehole terminated at 21.18m .		HW							
21.18															
22															
23															
24															
25															
26															
27															
28															
29															
30															

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