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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH04
SHEET 1 of 3
REFERENCE No 11838

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 2 - Right Hand Side COORDINATES 287095.6 E; 7024279.4 N
PROJECT No FG6169 SURFACE R.L. 315.44m PLUNGE _____ DATE STARTED 15/6/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 16/6/14 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	315.44					Silty CLAY (TOPSOIL) Dark grey black, moist, soft. Medium to low plasticity. Some sand, gravel and organic matter.	(CL-CI)						
0.40	315.04				A	Silty CLAY (ALLUVIAL) Dark grey, moist, firm to stiff. High plasticity. Occasional organic matter.	(CH)					1,1,4 N=5	SPT
1					B							2,4,6 N=10	SPT
2					C	Sandy CLAY (ALLUVIAL) Grey brown, moist, stiff. Low plasticity. Fine grained sand.	(CL)					4,6,9 N=15	SPT
2.60	312.84				D	4.00m becoming clayey dense sand. Fine to medium grained sand.						9,17,20 N=37	SPT
3					E	Silty SAND (ALLUVIAL) Brown, moist, medium dense to dense. Fine to medium grained sand.	(SM)					11,24,22 N=46	SPT
4					F							8,14,15 N=29	SPT
4.90	310.54				G	CLAYSTONE (J_Kk) XW: Recovered as mottled grey brown, yellow, moist, hard, silty gravelly clay. Medium plasticity. Fine gravel sized rock fragments.	XW					15,27,30/100mm	SPT
5					H							17,30/100mm	SPT
6					J	9.00m some sand and high content of gravel sized rock fragments.						25,30/90	SPT
7.90	308.44												
8													
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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10	305.44				K	CLAYSTONE (J_Kk) XW: (Cont'd) Becoming pale grey cream. Minor gravel sized rock fragments.							10,17,30/130	SPT
11					L	11.00m Some coarse gravel.							24,30/70mm	SPT
12					M	No gravel.			XW				30/130	SPT
13					N								30/120mm	SPT
14	301.24				P								30/140mm	SPT
15			(90)			CLAYSTONE (J_Kk) HW: Pale grey cream, brown, fine grained, thickly bedded, extremely low to very low strength. Some zones of iron oxide precipitate. thin lenses of fine grained sandstone. Defects: - Js; 40° (1/m) - Js; 70° (1/m) Defects are generally irregular, rough, weathered with clay infill.			HW				Is(50) = 0.07MPa; * Is(50) = 0.04MPa; *	D (14.80m) A (14.85m)
16			100 (40)						XW				15.00m-15.76m: Dark brown iron oxide precipitate zone. 15.76m-15.85m: XW Claystone. Extremely low strength.	
17			100 (90)						HW				16.15m-16.50m: XW Claystone. Extremely low strength. 16.70m-17.10m: XW Claystone. Extremely low strength. 17.20m-17.30m: XW Claystone. Extremely low strength.	D (16.22m) A (16.26m)
18			100 (100)						HW				16.90m-19.50m: 30-50% iron oxide precipitate.	
19													Is(50) = 0.06MPa; * Is(50) = 0.02MPa; *	D (18.56m) A (18.60m)
20													UCS=625kPa	UCS

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20	295.44													
20.12	295.32			100									Is(50) = 0.07MPa; * Is(50) = 0.10MPa; *	D (19.96m) A (20.00m)
						Borehole terminated at 20.12m.								
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														

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