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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH12  
SHEET 1 of 3  
REFERENCE No 11846

PROJECT Jingi Jingi Creek Bridgesite Investigation  
LOCATION Pier 10 - Right Hand Side COORDINATES 287030.2 E; 7024325.5 N  
PROJECT No FG6169 SURFACE R.L. 315.27m PLUNGE \_\_\_\_\_ DATE STARTED 27/6/14 GRID DATUM MGA 94 Zone 56  
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 27/6/14 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	315.27												
0.40	314.87					<b>Silty CLAY (TOPSOIL)</b> Dark grey black, moist, soft. Low plasticity. Some sand, gravel and organic matter.	(CL)						
1					A	<b>Silty CLAY (ALLUVIAL)</b> Dark grey, moist, soft to firm. High plasticity. Trace organic matter.	(CH)					1,2,2 N=4	SPT
2					B	2.00m: Becoming stiff.						3,5,8 N=13	SPT
2.50	312.77												
3					C	<b>Sandy CLAY (ALLUVIAL)</b> Grey, brown, moist, very stiff. Mainly low to medium plasticity. Some fine gravel.	(CL-CI)					5,9,11 N=20	SPT
3.50	311.77												
4					D	<b>Clayey SAND (ALLUVIAL)</b> Dark grey brown, moist, medium dense to dense. Fine to medium grained sand.	(SC)					12,14,16 N=30	SPT
5	310.27												
5.90	309.37				E	<b>Silty CLAY (ALLUVIAL)</b> Dark grey, moist, very stiff. High plasticity.	(CH)					7,9,11 N=20	SPT
6					F	<b>Clayey SAND (ALLUVIAL)</b> Pale grey brown, moist, dense to very dense. Fine to medium grained sand.	(SC)					11,13,21 N=34	SPT
7					G							13,30/130mm	SPT
8	307.27												
8.90					H	<b>CLAYSTONE (J_Kk)</b> XW: Recovered as grey, dark brown, moist, hard, silty clay. Mainly low to medium plasticity. Some iron oxide precipitate.						8,24,28 N=52	SPT
9					J	9.00m: Colour change to pale cream, white. Low plasticity.	XW					16,29,30/40mm	SPT
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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BOREHOLE No BH12  
SHEET 2 of 3  
REFERENCE No 11846

PROJECT Jingi Jingi Creek Bridgesite Investigation  
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JOB No 222/18C/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 27/6/14 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
10	305.27												
11					K	CLAYSTONE (J_Kk) XW: (Cont'd)						14,30/145mm	SPT
12					L							8,14,16 N=30	SPT
13					M		XW					15,22,30/140mm	SPT
14					N							30/130mm	SPT
14.20	301.07				P							30/100mm	SPT
15			(71)			CLAYSTONE (J_Kk) HW: White, yellow, dark brown patches, fine grained, medium bedded, mainly very low strength. Some XW weathered zones. Some HW Sandstone patches. Dark brown patches of iron oxide precipitate throughout.	HW					UCS=527kPa	UCS
16			100 (33)			Defects: - Js; 15°-25° (1/m); Joints are irregular, rough, weathered with clay infill.	XW					14.90m-15.20m: XW Claystone. Extremely low strength. Is(50) = 0.01MPa; * Is(50) = 0.04MPa; *	A (15.21m) D (15.25m)
17			100 (77)				HW					15.80m-16.80m: XW Claystone. Extremely low strength. Is(50) = 0.10MPa; * Is(50) = 0.11MPa; *	D (16.76m) A (16.80m)
18							XW					17.10m-17.30m: XW Claystone. Extremely low strength.	
19			100 (45)				HW					18.55m-18.90m: XW Claystone. Extremely low strength. Is(50) = 0.10MPa; * Is(50) = 0.05MPa; *	D (18.35m) A (18.40m)
20							XW					19.60m-20.20m: XW Claystone. Extremely low strength.	

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BOREHOLE No BH12

SHEET 3 of 3

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PROJECT No FG6169 SURFACE R.L. 315.27m PLUNGE          DATE STARTED 27/6/14 GRID DATUM MGA 94 Zone 56

JOB No 222/18C/5 HEIGHT DATUM AHD BEARING          DATE COMPLETED 27/6/14 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
20	295.27													
20.20	295.07			100		CLAYSTONE (J_Kk) HW: (Cont'd) Borehole terminated at 20.2m. .		XW					Is(50) = 0.02MPa; * Is(50) = 0.01MPa; *	D (20.16m) A (20.19m)
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														

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