

## **COPYRIGHT NOTICE**

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

## **LIMITATION OF LIABILITY**

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>

# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH19  
SHEET 1 of 3  
REFERENCE No 11853

PROJECT Jingi Jingi Creek Bridgesite Investigation  
LOCATION Abutment B - Left Hand Side COORDINATES 286967.3 E; 7024357.5 N  
PROJECT No FG6169 SURFACE R.L. 315.58m PLUNGE \_\_\_\_\_ DATE STARTED 9/7/14 GRID DATUM MGA 94 Zone 56  
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 9/7/14 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	315.58												
0.30	315.28					<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, very stiff. High plasticity. Trace organics.	(CH)					4,6,11 N=17; LL = 57; PI = 35; LS = 15.4; %Pass 2.36mm = 100 %Pass 0.075mm = 75	SPT
2					B							4,7,10 N=17; LL = 50; PI = 36; LS = 16.2; %Pass 2.36mm = 100 %Pass 0.075mm = 64	SPT
2.60	312.98					<b>Sandy CLAY (ALLUVIAL)</b> Grey brown, moist, very stiff. Low plasticity.	(CL)						
3					C							5,9,15 N=24	SPT
3.60	311.98					<b>Clayey SAND (ALLUVIAL)</b> Pale grey, brown, moist, dense to very dense. Fine to medium grained sand. Trace fine gravel.	(SC)						
4					D							15,22,23 N=45	SPT
5					E							9,13,22 N=35	SPT
6					F							8,26,27 N=53	SPT
6.90	308.68					<b>Silty CLAY (ALLUVIAL)</b> Dark brown, moist, very stiff to hard. Low plasticity. 7.00m: Some fine sand.	(CL)					6,13,20 N=33	SPT
7					G								
8					H							8,13,16 N=29	SPT
8.60	306.98					<b>CLAYSTONE (J_Kk)</b> <b>XW:</b> Recovered as white, pale grey, moist, hard, silty clay. Low plasticity.	XW					15,30/140mm	SPT
9					J								
10													

REMARKS J\_Kk = Kumbarilla Beds

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

LOGGED BY  
MS

# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH19  
SHEET 2 of 3  
REFERENCE No 11853

PROJECT Jingi Jingi Creek Bridgesite Investigation  
LOCATION Abutment B - Left Hand Side COORDINATES 286967.3 E; 7024357.5 N  
PROJECT No FG6169 SURFACE R.L. 315.58m PLUNGE \_\_\_\_\_ DATE STARTED 9/7/14 GRID DATUM MGA 94 Zone 56  
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 9/7/14 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	305.58				K	CLAYSTONE (J_Kk) XW: (Cont'd)							14,30/140mm	SPT
11					L								11,25,30/130mm	SPT
12					M								14,22,30 N=52	SPT
13					N								15,30/120mm	SPT
14					P								30/140mm	SPT
15	300.38				Q	15.00m: Colour change to yellow, pale grey.							30/110mm	SPT
16			(100)			CLAYSTONE (J_Kk) HW: Yellow, white, dark grey, fine grained, thickly bedded, mainly very low strength. Some patches of iron oxide precipitate.							Is(50) = 0.04MPa; * Is(50) = 0.04MPa; *	A (15.55m) D (15.60m)
17			100 (100)			Defects: - Js; 20°-30° (1/m); Defects are generally irregular, rough, weathered and clay infilled.							Is(50) = 0.08MPa; * Is(50) = 0.03MPa; *	D (16.99m) A (17.03m)
18			100 (75)										17.05m-17.28m: XW Claystone. Extremely low strength.	
19			100 (60)										18.25m-18.75m: XW Claystone. Extremely low strength.	
20			100										UCS=122kPa	UCS
													19.15m-19.30m: XW Claystone. Extremely low strength.	

REMARKS J\_Kk = Kumbarilla Beds

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

LOGGED BY  
MS

# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH19

SHEET 3 of 3

REFERENCE No 11853

PROJECT Jingi Jingi Creek Bridgesite Investigation

LOCATION Abutment B - Left Hand Side COORDINATES 286967.3 E; 7024357.5 N

PROJECT No FG6169 SURFACE R.L. 315.58m PLUNGE          DATE STARTED 9/7/14 GRID DATUM MGA 94 Zone 56

JOB No 222/18C/5 HEIGHT DATUM AHD BEARING          DATE COMPLETED 9/7/14 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	295.58												
20.15	295.43			(15)				HW				Is(50) = 0.10MPa; * Ts(50) = 0.06MPa; *	D (20.00m) A (20.05m)
21						<b>CLAYSTONE (J_Kk)</b> <b>XW:</b> Generally exhibits the engineering properties of white with dark brown patches, dry, hard silty clay. Low plasticity.		XW					
21.20	294.38			100								Is(50) = 0.03MPa; * Is(50) = 0.06MPa; *	A (21.00m) D (21.04m)
						Borehole terminated at 21.2m.							
22													
23													
24													
25													
26													
27													
28													
29													
30													

REMARKS J\_Kk = Kumbarilla Beds

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

LOGGED BY  
MS