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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH25**

Sheet 1 of 2

REFERENCE No **H13346**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494794.72 E; 6955188.13 N	
PROJECT No	FG18012	SURFACE RL -5.53m	PLUNGE 90°	DATE STARTED 12/03/2019	GRID DATUM MGA94 56J
JOB No	498/05038	HEIGHT DATUM m AHD	BEARING	DATE COMPLETED 13/03/2019	DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER Casing WASH BORING CORE DRILLING CORE REC %	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY GROUP SYMBOL / WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
1	-6.43				Silty GRAVEL with clay, trace sand (Alluvium) Brown and dark grey, wet loose. 60% fine to coarse grained gravel. 15% silt, low plasticity. 10% clay, high plasticity. 15% fine grained sand. CLAY trace gravel and sand (Alluvium) Brown and grey-brown, wet, very soft to soft.	(GM)				
2				A	90% clay, medium plasticity. 5% fine grained sand. 5% fine grained gravel. From 2.3m: Becoming dark grey-brown, very soft-soft.	CI			hw, hw, 3 N=3 LL=44% PI= 25% MC=30.4% LS=13%	SPT
3				B					hw, hw, hw N<1	SPT
4	-9.93									
5	-10.19			C	Clayey Silty GRAVEL (Residual) Brown and grey, moist, very dense. 50% fine grained gravel, angular grains. 30% silt, low plasticity. 20% clay, low plasticity. ARGILLITE (DCf) MW: Grey and brown, fine grained, medium to high strength. With some quartz banding and quartz infill.	(GM)			30/80mm	SPT
6				100 (64)	Js1: 0-30° (12-14/m), Sm-Ro, TI, Cn. Js2: 30-50° (5-6/m), Sm, TI, Cn. Js3: 60-80° (1-2/m), Sm, TI, Cn. From 6.1m: Js1: (5-6/m) Js2: (10-12/m)	MW			Is(50)=0.40 MPa Is(50)=0.26 MPa	D (4.82m) A (4.87m)
7				100 (39)		MW			Is(50)=0.52 MPa Is(50)=0.40 MPa UCS=6.17 MPa	A (6.30m) D (6.42m) (6.57m)
8				100 (55)	From 8.4m: Js1: 0-30° (5-6m), Sm-Ro, TI-FL, Cn, Cly. Js2: 30-50° (10-12/m), Sm-Ro, TI-FL, Cn, Cly.	MW			Is(50)=0.82 MPa Is(50)=1.30 MPa	D (7.58m) A (7.68m)
9	-14.87				ARGILLITE (DCf) SW: Dark grey/blue grey, fine grained, medium to high strength.	SA			Is(50)=0.67 MPa Is(50)=0.44 MPa	D (9.41m) A (9.52m)

REMARKS: Barge deck at 2.87 m AHD, 8.4 m measured from barge deck to river bed

LOGGED BY

E. Maxwell

REVIEWED BY

S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH25**

Sheet 2 of 2

REFERENCE No **H13346**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494794.72 E; 6955188.13 N	
PROJECT No	FG18012	SURFACE RL	-5.53m	PLUNGE	90°
				DATE STARTED	12/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	13/03/2019
				DRILLER	Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY GROUP SYMBOL / WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11			100 (92)		ARGILLITE (Dcf) SW: Dark grey/blue grey, fine grained, medium to high strength. With quartz veining. Js1: 0-30° (4-5/m), Sm-Ro, TI, Cn. Js2: 30-50° (6-7m), Sm-Ro, TI, Cn. From 10.7m: Js1: (2/m), Ro, TI, Cn Js2: (1-2m), Ro, TI, Cn. Js3: 60-80° (1-2/m), Ro, TI, Cn.	SA	M	VC	Is(50)=0.31 MPa Is(50)=0.24 MPa	A (10.07m) D (10.10m)
12			100 (87)		From 12.3m: Js1: (3-4/m) Js2: (2-3m). With very high strength quartz veining.		MH	M	Is(50)=0.50 MPa Is(50)=0.15 MPa	D (12.14m) A (12.18m)
13			100 (90)		From 13.8m: Js1: (8-10/m) Js2: (1-2/m).		M	C	Is(50)=1.20 MPa Is(50)=2.50 MPa	A (13.25m) D (13.35m)
14			100 (87)		From 15.3m: Js1: (6-8/m) Js2: (2-3m).		H	C	Is(50)=1.70 MPa Is(50)=0.86 MPa	D (15.25m) A (15.28m)
15			100		Borehole completed at 16.88 m				Is(50)=2.20 MPa Is(50)=1.10 MPa	D (16.50m) A (16.60m)
16										
17										
18										
19										

REMARKS: Barge deck at 2.87 m AHD, 8.4 m measured from barge deck to river bed

LOGGED BY

E. Maxwell

REVIEWED BY

S. Foley

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade – Geotechnical Investigation		
Project No.	FG18012	Date	11/04/2019
Borehole No.	BH25	Reference No.	
Location	Brisbane River	Start Depth (m)	4.66
Submitted By	E.Maxwell	Finish Depth (m)	16.88

