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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 **BH06**

Sheet 1 of 3

REFERENCE No **H13326**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494742.89 E; 6955062.38 N	
PROJECT No	FG18012	SURFACE RL	-6.33m	PLUNGE	90°
				DATE STARTED	22/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	23/02/2019
				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
1	-7.63			A	Silty CLAY trace sand (Alluvium) Dark grey, wet, soft. 50% clay, low to medium plasticity 40% silt, low plasticity 10% sand, fine grained.	(CL)			1.20m-1.23m: Environmental sample 'A1'	Su(PP)=0 kPa U75
2				B	SAND trace gravel and silt (Alluvium) Dark grey and brown, wet, loose. 85% fine to coarse grained sand 10% fine to coarse grained gravels, sub-angular 5% silt, low plasticity.				2.00m-2.05m: Environmental sample 'B1'	3, 2, 3 N=5 SPT
3				C					3.00m-3.05m: Environmental sample 'C1'	2/450mm SPT
4				D	3.5-3.9m: Silty SAND layer. Dark grey, wet, very loose. From 3.9m: Becoming grey brown.	(SP)			4.00m-4.05m: Environmental sample 'D1'	1, 3, 5 N=8 SPT
5				E	From 4.5m: Decrease in gravel content.				5.00m-5.05m: Environmental sample 'E1'	4, 2, 4 N=6 SPT
6				F					6.00m-6.05m: Environmental sample 'F1'	1, 3, 2 N=5 SPT
7	-13.73			G					7.00m-7.05m: Environmental sample 'G1'	3, 1, hw N=1 SPT
8	-14.43			H	Silty CLAY trace sand (Alluvium) Dark grey, wet, very soft. 55% clay, medium plasticity 40% silt, low plasticity 10% sand, fine grained.	(CI)			8.00m-8.05m: Environmental sample 'H1'	6, 6, 9 N=15 MC=18.1% <75µm= 6% SPT
9				I	Gravelly SAND with clay (Alluvium) Grey to brown, wet, medium dense, 62% fine grained sand. 32% fine to coarse grained gravel, 6% fines, low plasticity.	SP			9.00m-9.05m: Environmental sample 'I1'	7, 7, 10 N=17 SPT
	-16.33								10.00m-10.05m: Environmental sample 'J1'	

REMARKS: Barge deck at 2.97 m AHD, 9.3 m measured from barge deck to river bed

LOGGED BY
E. Maxwell/M.
Hayes

REVIEWED BY
S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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BOREHOLE No **BH06**

Sheet 2 of 3

REFERENCE No **H13326**

PROJECT Centenary Bridge Upgrade

LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494742.89 E; 6955062.38 N

PROJECT No FG18012

SURFACE RL -6.33m

PLUNGE 90°

DATE STARTED 22/02/2019

GRID DATUM MGA94 56J

JOB No 498/05038

HEIGHT DATUM m AHD

BEARING

DATE COMPLETED 23/02/2019

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
					Gravelly silty CLAY (Residual) (DCf) Brown grey mottled orange, moist, very stiff-hard. 40% clay, medium plasticity 25% silt 35% fine to medium grained gravel, angular grains.	(CI)			10, 15, 14 N=29	SPT
11	-17.33				ARGILLITE (DCf) HW: Dark blue-grey mottled orange-brown, high strength with low to medium strength clay zones.	HW			11.20m-12.35m: Js: 0°-30° (12-20/m), Ro, OP, Cly Ct Js: 40°-60° (1/m), Sm, TI, Cly Ct 11.36m-11.44m: Cly BZ and Cly joint infill 11.57m-11.64m: Cly BZ	30/80mm D (11.50m) A (11.51m)
12	-18.68		100 (0) 100 (71)		ARGILLITE (DCf) SA: Dark green to grey with some iron staining, high strength, quartz veining throughout. Js: 0°-30° (6/m), Sm-Sl, Cly Ct Js: 45°-60° (2-5/m), Sm-Sl, Cn.	SA			12.20m-12.27m: Cly BZ	Is(50)=0.10 MPa Is(50)=0.39 MPa D (12.06m) A (12.07m)
13			100 (53)			FR				UCS=10.20 MPa Is(50)=0.30 MPa Is(50)=0.42 MPa (12.60m) D (12.75m) A (12.76m)
14			100 (26)						14.47m-14.62m: Extremely fractured zone	Is(50)=0.00 MPa Is(50)=0.63 MPa D (14.32m) A (14.33m)
15			(58)			SA			14.92m-14.97m: Extremely weathered band.	
16	-22.79		100 (88)						15.56m-15.58m: Extremely weathered band. 15.57m: 20mm clay seam/fault gouge.	Is(50)=1.00 MPa Is(50)=1.20 MPa D (15.65m) A (15.66m)
17					METAGREYWACKE (DCf) MA: Green to grey and pale grey, foliated throughout at 60°, high to very high strength, quartz veins throughout, greenschist facies alteration. Js: 30°-45° (2-3/m), Sm, Cn.	HA			16.37m-16.40m: Extremely weathered band. 16.37m: 30mm clay seam/fault gouge. 16.65m: 60mm BZ	Is(50)=0.34 MPa Is(50)=0.46 MPa D (16.74m) A (16.76m)
18			100 (0)		Js: 30°-45° (15-20/m), Sm, Cn. Js: 45°-60° (6-10/m), Sm, Cn.	MA				Is(50)=0.34 MPa Is(50)=1.30 MPa D (17.43m) A (17.44m)
19	-26.33		100 (55)		Js: 30°-45° (2-3/m), Sm, Cn. Js: 45°-60° (2-3/m), Sm, Cn.				19.20m-19.35m: 150mm BZ	Is(50)=1.90 MPa Is(50)=0.11 MPa D (19.48m) A (19.49m)

REMARKS: Barge deck at 2.97 m AHD, 9.3 m measured from barge deck to river bed

LOGGED BY

E. Maxwell/M.
Hayes

REVIEWED BY

S. Foley



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BOREHOLE No **BH06**

Sheet 3 of 3

REFERENCE No **H13326**

PROJECT Centenary Bridge Upgrade

LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494742.89 E; 6955062.38 N

PROJECT No FG18012 SURFACE RL -6.33m PLUNGE 90° DATE STARTED 22/02/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 23/02/2019 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
21			(84)		METAGREYWACKE (DCf) MA: Continued.					
22			100 (95)			MA			Is(50)=2.40 MPa Is(50)=0.80 MPa	D (20.80m) A (20.81m)
23	-29.33		100		Borehole completed at 23.00 m				Is(50)=1.60 MPa Is(50)=1.90 MPa	D (22.31m) A (22.32m)
24										
25										
26										
27										
28										
29										

REMARKS: Barge deck at 2.97 m AHD, 9.3 m measured from barge deck to river bed

LOGGED BY
E. Maxwell/M.
Hayes

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	22-23/02/2019
Borehole No.	BH06	Reference No.	H13326
Location	Brisbane River, Jindalee	Start Depth (m)	11.20
Submitted By	M. Hayes	Finish Depth (m)	23.00

