

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) 2026, 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://ggd.org.au/>



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH05**

Sheet 1 of 3

REFERENCE No **H13325**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494720.30 E; 6955106.40 N	
PROJECT No	FG18012	SURFACE RL	-11.30m	PLUNGE	90°
				DATE STARTED	16/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	18/02/2019
				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
	-12.15				Silty SAND (Alluvium)	(SM)			0.00m-0.85m: Inferred material. Not recovered or observed due to casing installation.	
1				A1	SAND trace silt (Alluvium) Grey to brown, wet, loose. 95% fine to coarse grained sand 5% silt.	(SW)			1.40m: Hole cave in. SPT result not recorded.	SPT
2				B1	Sandy GRAVEL (Alluvium) Grey-pale grey mottled brown, wet, medium dense. 60% fine grained gravel. 40% medium to coarse grained sand.				2.30m-2.35m: Environmental sample 'B1'	4, 3, 5 N=8 SPT
3	-13.80			C1					3.30m-3.35m: Environmental sample 'C1'	8, 6, 6 N=12 SPT
4				D		(GP)				12, 10, 6 N=16 SPT
5				E1	From 4.80m: Becoming grey to brown, dense to very dense, GRAVEL with sand. 80% fine to coarse grained gravel. 20% medium to coarse grained sand.				4.80m-5.78m: Gravels typically high to very high strength and comprised of quartz, chert, and argillite.	11, 25, 30/130mm SPT
6	-17.08				METAGREYWACKE (DCf)	MA			5.78m-6.20m: High strength.	
	-17.50			(64)	MA: Recovered as blue grey, dense, SAND.	MA			6.20m-6.26m: Cly BZ	
7					METAGREYWACKE (DCf)				6.20m: Js: 0°-20° (4/m), Ro, Ti, Cn Js: 30°-50° (4/m), Ro, Ti, Cn	Is(50)=0.61 MPa Is(50)=0.64 MPa UCS=15.60 MPa E=31.3 GPa D (7.17m) A (7.18m) (7.30m)
				100 (28)	SA: Grey, fine grained, massive, high strength Thin quartz veining typically <10mm throughout.					
8						SA			8.00m: Js: 0°-20° (12/m), Ro, Ti, Cn Js: 30°-50° (10/m), Ro, Ti, Cn Js: 60°-80° (2/m), Sm, Ti, Cn	Is(50)=1.90 MPa Is(50)=2.30 MPa Is(50)=0.97 MPa Is(50)=1.40 MPa D (8.75m) A (8.76m) D (9.06m) A (9.07m)
				100 (35)						
9										
	-21.30									

REMARKS: Barge deck at 3.00 m AHD, 14.3 m measured from barge deck to river bed

LOGGED BY

B. Knight/M.
Hayes

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 **BH05**

Sheet 2 of 3

REFERENCE No **H13325**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494720.30 E; 6955106.40 N	
PROJECT No	FG18012	SURFACE RL	-11.30m	PLUNGE	90°
				DATE STARTED	16/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	18/02/2019
				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 EH _VH _H _M _L _VL	DEFECT SPACING EC _VC _C _M _W _VW	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11			100 (64)		ARGILLITE (DCf) SA: Continued.			C M M C	Is(50)=0.91 MPa Is(50)=1.70 MPa	D (10.15m) A (10.16m)
12			100 (91)					C M	Is(50)=0.26 MPa Is(50)=1.50 MPa	D (11.34m) A (11.35m)
13			100 (96)					C H W	12.50m: Js: 0°-20° (2/m), Ro, Tl, Cn Is(50)=1.60 MPa Is(50)=0.84 MPa	D (12.69m) A (12.70m)
14			100 (96)					M	UCS=19.20 MPa E=55.3 GPa v= 0.331 Is(50)=2.40 MPa Is(50)=2.80 MPa	(13.40m) D (13.55m) A (13.56m)
15			100 (82)		From 15.0m: High to very high strength.	SA		M	Is(50)=1.90 MPa Is(50)=3.40 MPa	D (15.14m) A (15.15m)
17			100 (93)					M	Is(50)=2.10 MPa Is(50)=1.60 MPa Is(50)=3.50 MPa Is(50)=1.00 MPa	D (16.95m) A (16.96m) D (17.30m) A (17.31m)
18			100 (56)		17.46m: Healed Joint, 50°-70°.			H-VH	18.50m: Js: 30°-50° (5/m), Ro, Tl, Cn	
19								C	Is(50)=3.80 MPa Is(50)=4.60 MPa UCS=47.90 MPa	D (18.90m) A (18.91m) (19.10m)
-31.30									20.00m-20.08m: Highly fractured.	

REMARKS: Barge deck at 3.00 m AHD, 14.3 m measured from barge deck to river bed

LOGGED BY

B. Knight/M.
Hayes

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 **BH05**

Sheet 3 of 3

REFERENCE No **H13325**

PROJECT Centenary Bridge Upgrade

LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494720.30 E; 6955106.40 N

PROJECT No FG18012 SURFACE RL -11.30m PLUNGE 90° DATE STARTED 16/02/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 18/02/2019 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
								EH	VH	H	M	L	VL	EC	VC	C	M			W	VW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
-31.57			100		ARGILLITE (DCf) SA: Continued. Borehole completed at 20.27 m		SA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

REMARKS: Barge deck at 3.00 m AHD, 14.3 m measured from barge deck to river bed

LOGGED BY

B. Knight/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	16-18/02/2019
Borehole No.	BH05	Reference No.	H13325
Location	Brisbane River, Jindalee	Start Depth (m)	6.20
Submitted By	M. Hayes	Finish Depth (m)	20.27

