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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 **BH22**

Sheet 1 of 4

REFERENCE No **H13343**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494731.03 E; 6955000.18 N

PROJECT No FG18012 SURFACE RL 8.90m PLUNGE 90° DATE STARTED 07/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 08/03/2019 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
1				A	CLAY with sand (Alluvium) Pale brown, moist, stiff. 67% clay, medium plasticity. 33% fine grained sand.					7, 6, 8 N=14 LL=36% PI= 16% MC=9.5% LS=10%
2										
3				B	From 2.5m: Becoming very stiff	CI				7, 7, 8 N=15
4				C						6, 8, 10 N=18 <75µm= 67%
5										
6				D						7, 8, 13 N=21 <75µm= 65%
7	2.50			E	Sandy SILT trace clay (Alluvium) Pale brown and orange brown mottled grey, moist, very stiff. 58% fine to medium grained sand. 42% fines, low to medium plasticity.					7, 8, 14 N=22 <75µm= 42%
8						ML				
9				F	From 8.5m: Becoming firm to stiff					2, 3, 4 N=7
	-1.10									

REMARKS:

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REVIEWED BY

S. Manson

S. Foley



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BOREHOLE No **BH22**

Sheet 2 of 4

REFERENCE No **H13343**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorngal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494731.03 E; 6955000.18 N	
PROJECT No	FG18012	SURFACE RL	8.90m	PLUNGE	90°
				DATE STARTED	07/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	08/03/2019
				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
							EH _L_VH _H _M _L_VL				EC _VC _C _M _W _VW				
11 <															

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BOREHOLE No **BH22**

Sheet 3 of 4

REFERENCE No **H13343**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorngal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494731.03 E; 6955000.18 N	
PROJECT No	FG18012	SURFACE RL	8.90m	PLUNGE	90°
				DATE STARTED	07/03/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	08/03/2019
				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
21				N	Silty SAND trace clay (Alluvium) Continued. From 20.5m: Becoming very loose	SM			hw, 1, hw N=1	SPT
22	-13.40			O	Silty Gravelly CLAY trace sand (Alluvium) Dark grey, moist, very stiff. 30% clay, high plasticity 30% silt, medium plasticity 35% fine to medium grained gravel, sub-rounded to sub-angular. 5% fine to medium grained sand.	(CH)			1, 3, 12 N=15	SPT
23				P	23.70m: Organic material (tree roots).				4, 10, 11 N=21	SPT
24	-15.70									
25	-16.10			Q	Silty CLAY with gravel and sand (Residual) Blue-grey, moist, hard. 40% clay, medium to high plasticity. 20% silt, medium plasticity. 15% fine to medium grained gravel, sub-angular.	(CI)			25, 30/130mm	SPT
26	-16.90		(14)		15% fine to medium grained sand. ARGILLITE XW: Recovered as Gravelly CLAY. ARGILLITE	XW			Is(50)=0.15 MPa Is(50)=0.14 MPa	D (25.93m) A (25.94m)
27	-18.41		100 (49)		MW: Orange-brown and grey, fine grained, low to medium strength. Js: 10-25° (4-6/m), Ro, TI-OP, Cly Vr, Fe Stn. Js: 30-45° (1/m), Ro, TI-OP, Fe Stn. ARGILLITE SA: Blue-grey, fine grained, medium to high strength.	MW			26.60m: 40mm shear zone comprising Clayey GRAVEL. 26.74m: 20mm shear zone comprising Clayey GRAVEL.	
28									Is(50)=0.49 MPa Is(50)=0.55 MPa	D (27.56m) A (27.62m)
29									28.15m: With quartz inclusions. 28.35m: 90mm crushed zone.	
									UCS=24.60 MPa	(29.05m)
									Is(50)=0.93 MPa Is(50)=1.80 MPa	D (29.30m) A (29.42m)
	-21.10		100 (83)							

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BOREHOLE No **BH22**

Sheet 4 of 4

REFERENCE No **H13343**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494731.03 E; 6955000.18 N

PROJECT No FG18012 SURFACE RL 8.90m PLUNGE 90° DATE STARTED 07/03/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 08/03/2019 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
31					ARGILLITE SA: Blue-grey, fine grained, high strength. Js: 75-85° (1-2/m), Ro, FL-OP, Fe Stn.					
32			100 (63)			SA				
33										
34	-24.65		100		Borehole completed at 33.55 m					
35										
36										
37										
38										
39										

REMARKS:

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CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Centenary Bridge Upgrade – Geotechnical Investigation		
Project No.	FG18012	Date	7-8/03/2019
Borehole No.	BH22	Reference No.	
Location	Brisbane River	Start Depth (m)	25.8
Submitted By	M.Hayes	Finish Depth (m)	33.55

