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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH20**

Sheet 1 of 2

REFERENCE No **H13341**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorngal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494697.74 E; 6954860.77 N	
PROJECT No	FG18012	SURFACE RL	10.00m	PLUNGE	90°
				DATE STARTED	28/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	01/03/2019
				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 _T _M _J _VL	EC _VC _C _M _W _VW										
	9.75				Silty GRAVEL with sand (FILL) Grey and pale brown, moist, dense. 50% fine to coarse gravel, sub-angular grains. 20% silt, low to medium plasticity. 30% fine to coarse grained sand. Sandy SILT trace clay (Alluvium) Pale grey, moist, firm. 60% silt, low plasticity. 35% fine grained sand. 5% clay, low plasticity.	(GP)									0.00m: ASS samples collected at 0.5m intervals during augering and from SPT samples.			
	9.30					(ML)												
1				A	Silty CLAY trace sand (Alluvium) Brown, moist, stiff to very stiff. 87% fines, medium to high plasticity. 13% fine to medium grained sand.	CI									4, 6, 6 N=12	SPT		
2			B													6, 8, 10 N=18	SPT	
3				C											5, 3, 4 N=7 LL=46% PI= 29% LS=12%	SPT		
4				D											3, 5, 10 N=15 MC=21.3% <75µm= 87%	SPT		
5				E											7, 9, 12 N=21	SPT		
6				F											10, 11, 15 N=26	SPT		
7				G	From 7.0m: 75% clay, high plasticity. 20% silt, high plasticity 5% fine grained sand										8, 7, 6 N=13	SPT		
8				H											3, 4, 7 N=11	SPT		
9				I											2, 4, 7 N=11	SPT		
	0.00																	

REMARKS:

LOGGED BY

S. Manson

REVIEWED BY

S. Foley



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GEOTECHNICAL BOREHOLE LOG

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REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH20**

Sheet 2 of 2

REFERENCE No **H13341**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorinal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494697.74 E; 6954860.77 N	
PROJECT No	FG18012	SURFACE RL	10.00m	PLUNGE	90°
				DATE STARTED	28/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	01/03/2019
				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	-1.10			J	Silty CLAY with sand (Alluvium) Brown, moist, very stiff. 75% clay, high plasticity. 20% silt, high plasticity. 5% fine grained sand.	CH			4, 6, 9 N=15 LL=55% PI= 38% LS=10%	SPT
12				K	Silty Sandy CLAY with gravel (Residual) Pale brown/grey, moist, hard. 40% medium to high plasticity clay. 30% fine to coarse grained sand. 20% silt, medium plasticity.	(CI)			13, 13, 18 N=31	SPT
13	-3.00			L	10% fine to medium grained gravel, sub-angular grains.				12, 21, 25 N=46	SPT
14	-4.10			M	METAGREYWACKE XW: Recovered as orange brown, moist, very dense, Clayey GRAVEL with silt and sand.	XW			13, 24, 30/120mm	SPT
15				N	METAGREYWACKE HW: Orange/brown, fine grained, medium strength. Js: 5-25° (4-7/m), Ro, TI-OP, Fe Stn, Cly Vr. Js: 30-50° (3-5/m), Ro, TI-OP, Fe Stn, Cly Vr.				30/130mm	SPT
16			100 (26)			HW			15.10m: 40mm shear zone, comprising Gravelly CLAY.	D (14.35m) Is(50)=0.28 MPa
17			100 (13)						15.10m: 40mm shear zone, comprising Gravelly CLAY.	A (14.90m) Is(50)=0.53 MPa
18			100 ()						15.10m: 40mm shear zone, comprising Gravelly CLAY.	D (15.24m) Is(50)=0.36 MPa
19	-8.50								15.10m: 40mm shear zone, comprising Gravelly CLAY.	A (15.63m) Is(50)=0.55 MPa
20									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	D (16.48m) Is(50)=1.00 MPa
21									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	A (16.89m) Is(50)=0.84 MPa
22									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	D (17.45m) Is(50)=1.80 MPa
23									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	A (17.60m) Is(50)=1.20 MPa
24									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	A (17.89m) Is(50)=1.30 MPa
25									16.25m: 70mm fragmented zone. 16.37m: 50mm fragmented zone. 16.64m: 120mm fragmented zone.	D (18.15m) Is(50)=1.70 MPa
26	-9.97				METAGREYWACKE MW: Orange/brown, fine grained, high strength.	MA			18.42m: 80mm fragmented zone.	D (19.45m) Is(50)=7.20 MPa A (19.47m) Is(50)=4.80 MPa

Borehole completed at 19.97 m

REMARKS:

LOGGED BY

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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	1/03/2019
Borehole No.	BH20	Reference No.	H13341
Location	Koorinal Drive Park, Jindalee	Start Depth (m)	18.50
Submitted By	M. Hayes	Finish Depth (m)	19.97

