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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH07**

Sheet 1 of 4

REFERENCE No **H13327**

PROJECT Centenary Bridge Upgrade

LOCATION Koorlingal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494722.92 E; 6955017.12 N

PROJECT No FG18012 SURFACE RL 6.96m PLUNGE 90° DATE STARTED 20/02/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 22/02/2019 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	5.46			A	Silty SAND trace clay (FILL) Pale brown, moist, medium dense. 80% fine to medium grained sand 15% silt, low plasticity 5% clay, low plasticity.	(SM)			0.00m: ASS sample taken at 0.50m intervals and from every SPT sample. 0.30m-0.50m: Sandy GRAVEL with silt. Pale brown and grey, moist, dense. 55% fine to coarse gravel. 35% fine to medium grained sand. 10% low plasticity silt.	6, 7, 8 N=15 SPT
2				B	Sandy SILT with clay (Alluvium) Pale brown, moist, firm to stiff. 40% silt, low plasticity. 50% fine to medium grained sand. 10% clay, low plasticity.	(ML)				2, 1, 3 N=4 SPT
3				C						2, 4, 5 N=9 SPT
4	2.96			D	Silty Sandy CLAY (Alluvium) Pale brown, moist, stiff-very stiff. 30% clay, low plasticity 40% fine to coarse grained sand 30% silt, low plasticity.	(CL)				4, 8, 9 N=17 SPT
5				E						5, 8, 9 N=17 SPT
6				F						4, 6, 6 N=12 SPT
7				G	7.00m Becoming soft to firm.					2, 2, 2 N=4 SPT
8	-0.39			H	Silty SAND (Alluvium) Dark grey, moist, very loose. 80% fine to coarse grained sand 20% fines, low plasticity. Interbedded Silty CLAY with sand.	SM				1, hw, 1 N=1 MC=27.8% <75µm= 20% SPT
9				I						1, 1, 2 N=3 SPT
	-3.04									

REMARKS:

LOGGED BY

S. Manson

REVIEWED BY

S. Foley



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BOREHOLE No **BH07**

Sheet 2 of 4

REFERENCE No **H13327**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorngal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494722.92 E; 6955017.12 N	
PROJECT No	FG18012	SURFACE RL	6.96m	PLUNGE	90°
				DATE STARTED	20/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	22/02/2019
				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
11				J	Silty SAND with clay (Alluvium) Dark grey, moist, very loose-loose. 70% fine to coarse grained sand 30% fines, low plasticity. Interbedded Silty CLAY with sand.	SM			hw, 1, 3 N=4	SPT
				K					3, 1, 4 N=5	SPT
12				L					hw, hw, hw N<1 LL=65% PI= 47% LS=15%	SPT
13				M					Su(PP)=50 kPa	U75
14				N					Su(PP)=50 kPa	U75
15				O	15.00m Becoming medium dense - dense				5, 8, 16 N=24	SPT
16				P	16.00m Becoming very loose to loose.				3, 4, 2 N=6	SPT
17				Q					rw, rw, rw N<1	SPT
18	-11.14			R	Silty CLAY trace sand (Alluvium) Pale brown, moist, stiff. 50% clay, high plasticity 45% silt, high plasticity 5% fine grained sand.	(CH)			2, 3, 6 N=9	SPT
19				S					1, 6, 5 N=11	SPT
	-13.04									

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BOREHOLE No **BH07**

Sheet 3 of 4

REFERENCE No **H13327**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorngal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494722.92 E; 6955017.12 N	
PROJECT No	FG18012	SURFACE RL	6.96m	PLUNGE	90°
				DATE STARTED	20/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	22/02/2019
				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
							EH _VH _H _M _L _VL	EC _VC _C _M _W _VW				
21				T	Silty CLAY trace sand (Alluvium) Continued.	(CH)					2, 3, 4 N=7	SPT
				U		(CH)					2, 3, 4 N=7	SPT
22				V							3, 4, 8 N=12	SPT
	-15.74			W	Silty CLAY with gravel trace sand (Residual) Red-brown and dark grey mottled pale brown, moist, very stiff-hard.	(CH)					9, 11, 13 N=24	SPT
	-16.54				50% clay, medium to high plasticity 20% silt, medium to high plasticity 25% fine to coarse grained gravel, sub- rounded grains 5% fine to coarse grained sand.	HW						
	-16.74		(14)		METAGREYWACKE (DCf) HW: Blue grey and orange/brown, fine to medium grained, very low to low strength. METAGREYWACKE (DCf) MA: Blue grey with orange/brown staining, fine grained, high strength. Js: 20-35° (4-8/m), Ro, FL-OP, Cn, Fe Stn. Js: 40-50° (3-7/m), Ro, FL-OP, Cn, Fe Stn.	MA						
24					26.00m Becoming fresh.	HA					Is(50)=0.64 MPa Is(50)=0.09 MPa	D (23.96m) A (24.08m)
						MA					Is(50)=0.21 MPa Is(50)=0.64 MPa	D (24.72m) A (24.83m)
						HA					Is(50)=0.39 MPa Is(50)=0.92 MPa	D (25.38m) A (25.46m)
26			100 (28)			MA					Is(50)=0.79 MPa	D (26.38m)
						HA					Is(50)=0.85 MPa	A (26.70m)
27						XA					Is(50)=1.10 MPa Is(50)=0.86 MPa	D (27.56m) A (27.60m)
28			100 (32)		27.68-27.77m Shear zone, comprising Gravelly CLAY. 27.85-27.95m Shear zone, comprising Gravelly CLAY.	MA					Is(50)=0.44 MPa	D (29.15m)
29											Is(50)=1.00 MPa	A (29.45m)
	-23.04											

25.74m-26.00m:
Fragmented zone.

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BOREHOLE No **BH07**

Sheet 4 of 4

REFERENCE No **H13327**

PROJECT	Centenary Bridge Upgrade				
LOCATION	Koorlingal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore			COORDINATES 494722.92 E; 6955017.12 N	
PROJECT No	FG18012	SURFACE RL	6.96m	PLUNGE	90°
				DATE STARTED	20/02/2019
				GRID DATUM	MGA94 56J
JOB No	498/05038	HEIGHT DATUM	m AHD	BEARING	
				DATE COMPLETED	22/02/2019
				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
31			100 (51)		METAGREYWACKE (DCf) MA: continued.	MA		VC	Is(50)=0.38 MPa Is(50)=0.57 MPa	D (30.69m) A (30.75m)
32								C		
								C	UCS=14.20 MPa E=8.25 GPa Is(50)=0.45 MPa Is(50)=0.28 MPa	(31.70m) D (31.76m) A (31.90m)
							M			
							MH	VC	Is(50)=0.48 MPa Is(50)=0.18 MPa	D (32.30m) A (32.34m)
33					32.85m Fragmented.					
									Is(50)=0.40 MPa	A (33.10m)
								M	Is(50)=2.50 MPa	D (33.33m)
34			100 (70)					C		
							MH			
								M		
								C	Is(50)=0.64 MPa Is(50)=2.00 MPa	D (34.37m) A (34.42m)
35	-28.04		100		Borehole completed at 35.00 m					
36										
37										
38										
39										

REMARKS:

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S. Manson

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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	20-22/02/2019
Borehole No.	BH07	Reference No.	H13327
Location	Koorinal Drive Park, Jindalee	Start Depth (m)	23.70
Submitted By	M. Hayes	Finish Depth (m)	35.00

