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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH09**

Sheet 1 of 3

REFERENCE No **H13329**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494708.00 E; 6954942.94 N

PROJECT No FG18012 | SURFACE RL 10.70m | PLUNGE 90° | DATE STARTED 04/03/2019 | GRID DATUM MGA94 56J

JOB No 498/05038 | HEIGHT DATUM m AHD | BEARING | DATE COMPLETED 04/03/2019 | DRILLER Schneider Drillin

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
0					Silty CLAY trace sand (Alluvium) Pale brown, moist, very stiff. 60% clay, medium plasticity 35% silt, medium plasticity 5% fine grained sand.					0.00m: ASS samples collected at 0.5m intervals and from SPT samples.	
1				A						8, 9, 10 N=19	SPT
2				B						10, 12, 16 N=28	SPT
3				C	2.60m Becoming high plasticity, no sand.					9, 11, 15 N=26	SPT
4				D			(CI)			8, 15, 18 N=33	SPT
5				E						7, 11, 16 N=27	SPT
6				F						7, 10, 13 N=23	SPT
7				G						7, 11, 14 N=25	SPT
8				H						6, 12, 15 N=27	SPT
9	2.19			I	Silty SAND with clay (Alluvium) Pale brown and orange-brown, moist, medium dense. 65% fine grained sand 25% silt, high plasticity 10% clay, high plasticity.		(SM)			8, 11, 16 N=27	SPT
	0.94				Silty CLAY (Alluvium)		CH				
	0.70										

REMARKS:

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S. Manson	S. Foley

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH09**

Sheet 2 of 3

REFERENCE No **H13329**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494708.00 E; 6954942.94 N

PROJECT No FG18012 | SURFACE RL 10.70m | PLUNGE 90° | DATE STARTED 04/03/2019 | GRID DATUM MGA94 56J

JOB No 498/05038 | HEIGHT DATUM m AHD | BEARING | DATE COMPLETED 04/03/2019 | DRILLER Schneider Drillin

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
				J	Silty CLAY (Alluvium) Grey and orange-brown, moist, very stiff. 70% clay, high plasticity 30% silt, medium to high plasticity.					6, 7, 12 N=19	SPT
11				K						5, 6, 7 N=13	SPT
					11.80m Becoming dark grey, firm.						
12				L						1, 1, 4 N=5	SPT
13				M							U75
										Su(PP)=98 kPa	
14				N	14.00m Becoming very soft to soft.					hw, hw, 3 N=3 LL=85% PI= 65% LS=12%	SPT
15				O			CH				U75
										Su(PP)=100 kPa	
16				P	16.20m Sandy CLAY band. 58% fines, high plasticity 42% fine grained sand, sub-rounded grains.					hw, hw, hw N<1	SPT
17				Q						hw, hw, 5 N=5 MC=46% <75µm= 58%	SPT
18				R						1, hw, hw N<1	SPT
19				S	19.00m Becoming very stiff.					2, 6, 10 N=16	SPT
	-9.30										

REMARKS:

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH09**

Sheet 3 of 3

REFERENCE No **H13329**

PROJECT Centenary Bridge Upgrade

LOCATION Kooringal Drive Park, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494708.00 E; 6954942.94 N

PROJECT No FG18012 | SURFACE RL 10.70m | PLUNGE 90° | DATE STARTED 04/03/2019 | GRID DATUM MGA94 56J

JOB No 498/05038 | HEIGHT DATUM m AHD | BEARING | DATE COMPLETED 04/03/2019 | DRILLER Schneider Drillin

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
				T	Silty CLAY (Alluvium) continued.		CH			4, 7, 9 N=16	SPT
	-9.76				Borehole completed at 20.45 m						
21											
22											
23											
24											
25											
26											
27											
28											
29											

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH10**
Sheet 1 of 2
REFERENCE No **H13330**

PROJECT Centenary Bridge Upgrade
LOCATION 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore
COORDINATES 494770.04 E; 6955340.79 N
PROJECT No FG18012
SURFACE RL 27.12m
PLUNGE 90°
DATE STARTED 11/02/2019
GRID DATUM MGA94 56J
JOB No 498/05038
HEIGHT DATUM m AHD
BEARING
DATE COMPLETED 12/02/2019
DRILLER All Tech 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
0	26.82			A	Sandy Silty GRAVEL (FILL) brown, moist, dense. Fine grained gravel, rounded grains. Silt, Low plasticity. Fine to medium grained sand, sub-angular to angular grains.		(GP)				DIST
	26.12			B	Trace roots		(GP)				
1				C	Sandy GRAVEL (Residual) Yellow to brown, moist, dense. 65% fine to medium grained gravel, angular to sub-angular grains. 35% fine grained sand, rounded to subrounded grains. Trace fines.		(ML)			30/150mm MC=5.3% <75µm= 39%	SPT DIST
2				D						30/140mm	SPT
				E	Sandy SILT with gravel (Residual) Yellow to brown, hard. 39% fine, low plasticity.						DIST
3	24.02			F						30/100mm	SPT
	23.76		(0)		44% fine to medium grained sand, sub-rounded to sub-angular grains. 17% fine grained gravel, sub-angular to angular grains.		XW				
4				CORE LOSS	ARGILLITE XW: Recovered as red to grey, fine to medium grained, angular, low to medium plasticity Silty GRAVEL.						
	22.62		17.8								
			(25)		CORE LOSS 3.35-4.50m						D (4.75m)
5			100		ARGILLITE (DCf) HW: Red trace grey, fine grained, foliated, medium strength. Js: 20-30° (5/m), Sm, Tl, Fe Stn. Js: 0-20° (2-5/m), Sm, Tl, Fe Stn.					Is(50)=0.02 MPa Is(50)=0.10 MPa	A (4.76m)
			(0)		5.5m: Trace tree root.		HW			5.50m: Recovered as GRAVEL.	
6			100								
			(6)							Is(50)=0.27 MPa	A (6.20m)
	20.52									Is(50)=0.07 MPa Is(50)=0.08 MPa	D (6.36m) A (6.37m)
7					ARGILLITE (DCf) MW: Pale red to brown/grey, fine grained, foliated, low to medium strength. Quartz veins throughout up to 1cm thick.					Is(50)=0.17 MPa	D (6.80m)
			100								
			(18)								
8					From 8.25m: Becoming pale green to yellow with grey. 8.27-8.29m Clay seam. 8.72-8.79m Crushed seam.		MW			Is(50)=0.05 MPa Is(50)=0.39 MPa	D (7.94m) A (7.95m)
			100								
9			(98)							Is(50)=0.54 MPa Is(50)=0.13 MPa	D (9.15m) A (9.16m)
	17.11		100								
			(0)								

REMARKS:

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH10**

Sheet 2 of 2

REFERENCE No **H13330**

PROJECT Centenary Bridge Upgrade

LOCATION 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494770.04 E; 6955340.79 N

PROJECT No FG18012 | SURFACE RL 27.12m | PLUNGE 90° | DATE STARTED 11/02/2019 | GRID DATUM MGA94 56J

JOB No 498/05038 | HEIGHT DATUM m AHD | BEARING | DATE COMPLETED 12/02/2019 | DRILLER All Tech 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	16.72		100 (70)		ARGILLITE (DCf) MW: Continued. Becoming pale green-yellow with grey.		HW	L		10.25m-10.40m: Crushed seams with clay infill.	
					ARGILLITE (DCf) SW: Pale green to pale yellow, foliated, fine grained, medium to high strength. 0-10mm quartz veins throughout.					Is(50)=0.28 MPa Is(50)=0.66 MPa	D (10.45m) A (10.46m)
12			100 (66)							Is(50)=0.33 MPa Is(50)=0.49 MPa	D (11.43m) A (11.44m)
					12.40-12.50m: Clay seam.		SW	MH	CE	Is(50)=0.29 MPa Is(50)=0.57 MPa	D (12.08m) A (12.09m)
13			100 (73)							Is(50)=0.70 MPa Is(50)=0.83 MPa	D (13.20m) A (13.21m)
										Is(50)=0.97 MPa Is(50)=0.73 MPa	D (13.66m) A (13.67m)
14					14.40-14.53m Clay seam.						
15	12.16		100		14.86-14.88m Clay Seam.					Is(50)=0.98 MPa Is(50)=0.71 MPa	D (14.67m) A (14.68m)
					Borehole completed at 14.95 m						
16											
17											
18											
19											

REMARKS:

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DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

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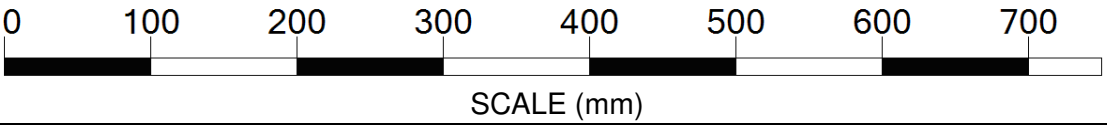
Project Name	**Centenary Bridge Upgrade - Geotechnical Investigation**		
Project No.	FG18012	Date	11-12/02/2019
Borehole No.	BH10	Reference No.	H13330
Location	27 Vidgen Lane, Kenmore	Start Depth (m)	3.10
Submitted By	M. Hayes	Finish Depth (m)	14.95



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