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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 **BH19**

Sheet 1 of 1

REFERENCE No **H13339**

PROJECT	Centenary Bridge Upgrade		
LOCATION	27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore		COORDINATES 494789.29 E; 6955410.47 N
PROJECT No	FG18012	SURFACE RL 34.68m	PLUNGE 90°
			DATE STARTED 12/02/2019
			GRID DATUM MGA94 56J
JOB No	498/05038	HEIGHT DATUM m AHD	BEARING
			DATE COMPLETED 13/02/2019
			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		DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH			
	34.65										
	34.48				ASPHALT	(GM)					
1				A	Sandy GRAVEL (SUBBASE) (FILL) Brown, dry, dense. Fine to medium grained gravel, sub- rounded to sub-angular grains. Sub-rounded sand grains.					4, 10, 9 N=19	SPT
				B	Sandy SILT with gravel (Alluvium) Pale brown, dry, very stiff-hard. 38% fines, low plasticity.					MC=5.3% <75µm= 38%	BULK
2				C	41% fine grained sand, sub-rounded to sub-angular.					30/130mm	SPT
				D	21% fine grained gravel, sub-angular. From 1.8m: Becoming brown.	SM					
3				E						30/130mm	SPT
				F							BULK
4	30.55			G						30/140mm	SPT
				(0)	ARGILLITE (DCf)						
				100	XW: Recovered as Silty GRAVEL with sand.	XW				Is(50)=0.01 MPa Is(50)=0.05 MPa	D (4.60m) A (4.61m)
5	29.47			(0)	Fine to medium grained gravel, angular grains. Low plasticity silt. Fine grained sand, sub-angular grains.					Is(50)=0.02 MPa Is(50)=0.02 MPa	D (4.97m) A (4.98m)
	29.18			65	CORE LOSS (5.21-5.50m)						
	28.93			(0)	ARGILLITE (DCf)	XW					
	28.58			43	XW: Continued.						
6				(40)	CORE LOSS (5.75-6.10m)						
					ARGILLITE (DCf)						
7					HW: Grey-green, fine to medium grained, foliated, low to medium strength, quartz veining throughout. Js: 0°-30° (4/m) Ro, FL-TI, Fe Stn	HW				Is(50)=0.04 MPa Is(50)=0.03 MPa	D (6.85m) A (6.86m)
	27.33				ARGILLITE (DCf)						
				100	MW: Grey to green, fine to medium grained, foliated, medium to high strength, quartz veining throughout (up to 40% quartz). Js: 60°-90° (4/m) Ro, FL, Fe Stn.					Is(50)=0.18 MPa Is(50)=0.11 MPa	D (7.40m) A (7.41m)
8				(0)							
				100		MW					
9	25.54			(100)						Is(50)=1.40 MPa Is(50)=0.46 MPa	D (9.04m) A (9.05m)
					Borehole completed at 9.14 m						

REMARKS: Hole terminated early at 9.1 m due to obstruction in hole stopped further drilling. BH19-1 commenced to reach target depth/criteria for location

LOGGED BY

H. Menon

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	12-13/02/2019
Borehole No.	BH19	Reference No.	H13339
Location	27 Vidgen Lane, Kenmore	Start Depth (m)	4.13
Submitted By	M. Hayes	Finish Depth (m)	9.14

