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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH01**

Sheet 1 of 2

REFERENCE No **H12323**

PROJECT Veloway (V1) Section D: Stage 2 (Juliette Street)

LOCATION _____ COORDINATES 503895.6 E; 6957733.1 N

PROJECT No FG6253b SURFACE RL 10.59m PLUNGE 90° DATE STARTED 24/06/2015 GRID DATUM MGA Zone 56

JOB No _____ HEIGHT DATUM AHD BEARING ° DATE COMPLETED 25/06/2015 DRILLER North Coast Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH											DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								EH	VH	H	M	J	VI	EL	EC	VC	C	M				W	VW
	10.39				Clayey SILT (Topsoil) Brown, dry, soft.	X	(ML)																
	9.89				Silty CLAY with Gravel (Fill) Grey mottled brown, moist, soft. Gravel is subrounded <5mm.	X	(CI)																
1				A	Silty CLAY (Residual) Grey mottled orange brown, moist, soft to firm. High plasticity. Trace medium grained sand. Minor clayey sand bands.	X	(CH)														1, 2, 3 N=5	SPT	
2						X																	
	7.99			B	Clayey GRAVEL (Residual) Mottled orange grey red, moist, medium dense.	X															4, 11, 12 N=23	SPT	
3	7.29				Gravel <15mm, angular. Silty CLAY lenses of low to medium plasticity. Interbedded SILTSTONE/ SANDSTONE (Ri)	X	(GP)																
4				C	XW: Recovered as red brown mottled brown to grey, moist, hard, Sandy CLAY. Medium plasticity. Sand is fine to medium grained. Trace gravel <5mm.	X															18, 30/100	SPT	
5						X																	
				D	Recovered as Clayey SAND interbedded with Silty CLAY.	X																18, 30/100	SPT
6						X																	
7				E		X																8, 12, 20 N=32	SPT
8					Becoming orange brown mottled dark grey and red. Organic Siltstone layers.	X																	
				F		X																11, 30/145	SPT
9						X																	
	0.59					X																26, 30/130	

Continued on next sheet

26, 30/130

REMARKS: Ri = Ipswich Coal Measures

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REVIEWED BY

C. Boyes

S. Foley



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BOREHOLE No **BH01**

Sheet 2 of 2

REFERENCE No **H12323**

PROJECT **Veloway (V1) Section D: Stage 2 (Juliette Street)**

LOCATION COORDINATES 503895.6 E; 6957733.1 N

PROJECT No **FG6253b** SURFACE RL **10.59m** PLUNGE **90°** DATE STARTED **24/06/2015** GRID DATUM **MGA Zone 56**
JOB No HEIGHT DATUM **AHD** BEARING **°** DATE COMPLETED **25/06/2015** DRILLER **North Coast Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORE CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH VH H M J VI EI		EC VC C M W VW EW		
11				G	SILTSTONE (Ri) XW: Recovered as pale brown mottled red grey, moist, hard, Silty CLAY. Medium to high plasticity. Trace organic gravel material, angular.						SPT
	-1.21			H	Organic content decreasing.					15, 30/140	SPT
12	-1.97		(11)		TUFF (Ri) HW: Grey to yellow brown, fine to medium grained, very thinly bedded, very low to low strength. Occasional carbonaceous lenses <200mm.		HW			11.98m: DI	
13			100 (79)		TUFFACEOUS SILTSTONE (Ri) HW: Grey brown to grey, very thinly to thinly bedded, generally very low to low strength. Some minor Sandstone interbeds of low strength. Some thin carbonaceous interbeds. -BP/LP: 0°-10° (<3/m), PI/Ro-Sm, OP-Ti, Some Cly Vr.		MW			12.27m-12.29m: Carbonaceous band, XW, Cly 12.29m-12.30m: XW Cly 12.30m-12.33m: Carbonaceous layer 12.44m-12.46m: J, 30°, PI/Ro, Cly Infill 20mm 12.54m-12.57m: Carbonaceous band 12.81m: J, 85°, Un/Ro, OP, some FeSt 12.88m: J, 70°, PI/Ro, OP, some FeSt 12.93m-12.95m: XW Cly Zone, FeSt 13.22m-13.59m: Sandstone interbed, fine to medium grained.	Is(50)=0.34 MPa D (12.63m) Is(50)=0.36 MPa A (12.74m)
14			100 (0)				HW				UCS=10.20 MPa (13.31m) Is(50)=0.19 MPa A (13.64m) Is(50)=0.05 MPa D (13.72m)
15			100 (63)				HW			14.35m-14.60m: XW Cly Zone, recovered as sand and gravel <5mm 14.82m-15.25m: DI BZ	Is(50)=0.24 MPa D (14.72m)
16					Grading into Sandstone.		HW				Is(50)=0.09 MPa A (15.29m)
17	-6.27		100 (51)		TUFFACEOUS SANDSTONE (Ri) HW: Pale grey to red brown, fine to coarse grained, thickly laminated to very thinly bedded, low to medium strength. Some Siltstone interlaminations. Becoming coarse sand with depth.		MW			15.46m-15.54m: XW Clayey Zone 15.64m-15.65m: Cly Zone 15.65m-15.87m: BZ, Cly 15.98m-16.02m: BZ 16.80m-16.83m: XW Cly zone	
18	-6.62				TUFFACEOUS SANDSTONE (Ri) MW: Pale grey, fine to coarse grained, thinly bedded to thickly laminated, high strength. BP/LP: 5°-10° (10/m), PI/Ro, TI-CD		HW			17.21m-17.24m: BZ 17.44m: J, 80°, PI/Ro, CD 17.58m-17.59m: BZ 17.63m-17.66m: DI BZ 17.66m-17.68m: Cly Zone	Is(50)=0.16 MPa A (17.21m) Is(50)=0.44 MPa D (17.32m)
19	-7.09		100		Borehole completed at 17.68m						

REMARKS: Ri = Ipswich Coal Measures

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