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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	<u>BH14</u>
SHEET	_ <u>1</u> _ of _ <u>2</u> _
REFERENCE No	<u>H9718</u>

JML

				t A, Approximate Chainage 498m, about 1m left of control N					DORDINATES <u>30041.1 E; 147326.1 I</u>	
		FG5404 148/17A/57				DATE STARTED <u>18/07</u> DATE COMPLETED <u>18/07</u>				
3 No	<u>148/</u>			DATUM <u>AHD</u>	DATE			<u>/05</u>	DRILLER <u>Drillsure</u>	_
R.L. (m)	UGER ASING VASH BORING ORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ISC VEATHERING	TFrankr	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	
20.80	4050	REC %	S	CLAYEY SAND (Fill)		· · · · · · · · · · · · · · · · · · ·		0		+
				Pale grey brown, orange-brown iron staining throughout, fine grained, moist, medium dense. Slightly cemented in parts.						
									5,8,7 N=15	
18.80				SANDY CLAY (Fill)						
				Pale grey-brown, minor orange iron staining, fine grained, moist, firm. Varies to clayey sand in parts. Contains Geofabric.					3,3,4 N=7	
17.30				SOFT SANDY CLAY or LOOSE CLAYEY SAND (Fill)						
				Pale grey, fine to medium grained, brown iron staining throughout, very moist, possibly slightly acidic.					RW,2,1 N=3	
15.30										
				SANDSTONE Pale grey, minor orange brown iron staining, fine to medium grained, moist.					10,14,17 N=31	
				Exhibits engineering properties of dense - very dense Clayey Sand. Fine grained.						
					xw				30/140mm N>50	
12.80				SHALE and SANDSTONE Interbeds Thin interbeds of fine grained sandstone						
12.00		(90)		throughout. Engineering properties of hard Sandy Clay. SHALE					11,30/50mm N>50 Is(50)=0.10 MPa) 1
		(50)		SHALE Brown becoming grey - dark grey with depth, subhorizontal bedding / lamination.	нw				Is(50)=0.17 MPa XW band, pale brown, trace Fest XW band	
		100							Jt, 0°, PL, SM, C, 1mm brown clay	

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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	<u>BH14</u>
SHEET	_2_ of _2_
REFERENCE No	<u>H9718</u>

JML

				<u>RWAY / LOGAN MOTORWAY GEOTECHNICAL I</u>						
LOCATION Near		Abutme	nt A	A, Approximate Chainage 498m, about 1m left of con		ntrol MCJ1-C.			OORDINATES <u>30041.1 E; 147326.1</u>	<u>N</u>
PROJECT N	o_ <u>FG5</u>	_FG5404		SURFACE R.L20.80		DATE STARTED _18/07/0			DATUM <u>lpswich Moto</u>	orway _
JOB No	<u> 148/</u>	17 <u>A/57</u>		DATUM <u>AHD</u>	DAT	E COMPLETE	D <u>18/07</u>	<u>/05</u>	DRILLER <u>Drillsure</u>	
(m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	AUGER CASING WASH BORING CORF DRII LING		SAMPLE	MATERIAL DESCRIPTION	USC	STRENGTH S	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
- - - - - - - - - - - - - - - - - - -		(100)		Shale Cont'd. Grey - dark grey, occasional subhorizontal bedding. bedding. Numerous drilling induced bedding plane partings. Defects mostly dip 50° or 70°. Defect surfaces are mostly PL, SM, C with a thin clay infill, tight or rehealed. Occasional XW bands which have engineering properties of stiff to very stiff clay.	HW				XW band Is(50)=0.12 MPa Is(50)=0.18 MPa Is(50)=0.13 MPa Is(50)=0.13 MPa Is(50)=0.21 MPa	
9.3(<u>100</u> (90)		As above.	MW		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Jt, 70°, PL, T Jt, 50°, PL, SM, T Jt, 50°, PL, rehealed Thin coal interlamination 2mm at 10° Is(50)=0.18 MPa Is(50)=0.17 MPa	
- 13 7.80		100 (86)		SANDSTONE Pale grey, fine to medium grained, thin Carb. interlaminations, occasional thin coal seams. Bedding 10°-20°. Defects mostly parallel bedding, 50°-70° with surfaces mainly	нw sw				= XW Siltstone band Is(50)=0.72 MPa Is(50)=0.36 MPa	
- <u>6.90</u> - 14				PL, SM-SR, with thin clayey film or Carb. deposits 1mm thick. SHALE Occasional bands of sandstone, defects as before, subhorizontal bedding.	MW				Jts, 20°, PL, thin coal 0.5-1mm thick MH strength siltstone band. Is(50)=0.33 MPa Is(50)=0.19 MPa	n x n o
		100		Borehole terminated at 14.4m						
	S No a	 roundwat		ported during drilling. See Additional Descriptive Coding		t for abbreviati	ons		LOGGED BY	

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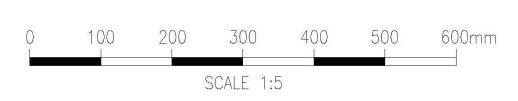
Project: Ipswich Motorway / Logan Motorway Interchange

Borehole No: **BH14**

Start Depth: Finish Depth: Project No: H No:

BH14 8.80m 14.40m FG5404 9718





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