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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION LOCATION PIER 1 - DOWNSTREAM/RIGHTHAND SIDE COORDINATES 10536.1 E; 167314.6 N PROJECT No _FG5388 _ _ _ SURFACE R.L. __8.60_ __. DATE STARTED _21/4/05__. DATUM SETP _____ 0405____ DATUM _AHD _. JOB No DATE COMPLETED _20/4/05_ DRILLER GEO DRILLING PTY LTC RI ROD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA DEPTH (m) MATERIAL (mm) LITHOLOGY AND SAMPLES DESCRIPTION SAMPLE AUGE CASIN WASH USC WEA TESTS CORE TEST RESULTS REC % 8.60 0 11111 SILT (TOPSOIL) - Grey 8.10 SILTY SAND - Pale Grey, fine grained. 7.80 SANDSTONE XW (100) PALE GREY MEDIUM TO COARSE GRAINED SEDIMENTARY ROCK Carbonaceous laminations parallel to MW - SW: Pale grey to prange brown, SW bedding. massive to slightly laminated, mainly Is(50)=0.06 MPa х medium to coarse grained, low to medium Is(50)=0.19 MPa х strength Is(50)=0.20 MPa o - 2 MW Minor orange iron staining and thin 31/8/05 carbonaceous interlaminations parallel to JT, 10°, PL, SM, iron \$(50)=0.16 MPa bedding in parts. 0 ENGINEERING BOREHOLE 09 04.GDT (100) Is(50)=0.19 MPa Defects: Bedding/lamiantion partings X Is(50)=0.22 MPa SW 0 10-20° Occasional joints 70-90° Defect surfaces are mostly planar, smooth Is(50)=0.12 MPa - slightly rough, clean or with a thin clayey ls(50)=0.32 MPa 0 film. Partings on carbonaceous Partings on carbonaceus faminations, 0-10°, rough.
Partings on Carb Lams 0-10°, Rough Is(50)=0.30 MPa JT, 0-10°, R, iron stal(\$450)=0.48 MPa ΜW (100)Х (s(50)=0.09 MPa 2005 - BORELOGS FOR SOUTHERN APPROACH PIERS AND ABUT A.GPJ Is(50)=0.17 MPa 0 Is(50)=0.22 MPa Х Is(50)=0.23 MPa o ls(50)=0.52 MPa ls(50)=0.27 MPa 0 (100)SW JT, 80-90°, T, thin clay infill, minor iron stains Is(50)=0.61 MPa Is(50)≂0.28 MPa ٥ (100)(s(50)=0.05 MPa Minor yellow iron staining. Becoming coarse grained with minor fine gravel and ls(50)=0.06 MPa SW wispy carbonerous interlaminations. Is(50)=0.36 MPa Is(50)=0.28 MPa Is(50)=0.56 MPa JT, 70°, PL, T, 5mm (\$50)=0.18 MPa displacement 0.71 INTERBEDDED MUDSTONE& 0 SANDSTONE (MUDSTONE DOMINANT) displacement WITH LITHOLOGY 24_5 SW: Pale grey to dark grey, laminated, fine Is(50)=0.01 MPa Is(50)=0.52 MPa grained, very low to low strength. 0 Minor carbonerous interlaminations in JT, 30°, PL, SR, CN. (s(50)=0.04 MPa (100)SW Is(50)=0.28 MPa 2 Joints, 70°, PL, SM, CN. 0 Defects: Bedding/lamiantion partings 10-20° ls(50)=0.02 MPa Occasional joints @ 30° or 70° BOREHOLE ls(50)=0.03 MPa -1.02 Defects are mostly parallel to bedding Is(50)=0.24 MPa (some may be lamination partings). Defect Is(50)=0.23 MPa surfaces are mostly planar, smooth -REMARKS LOGGED BY J. LESTER & A. DISSANAYAKE (DIS



ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No	BH3	
SHEET	_2_ of _2_	
REFERENCE No	H9552	

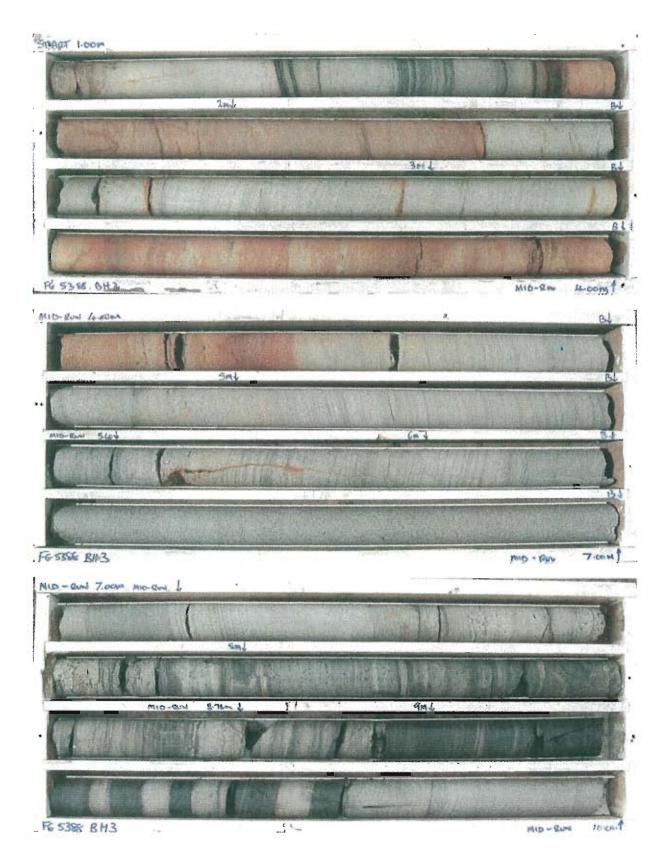
PROJECT No FG		<u> BRADE PROJECT - GATEWAY BRIDGE FOL</u>			
JOB No040 R.L. (m)		STREAM/RIGHTHAND SIDE		COORDINATES 10536.1 E; 167314.6 N	
(m) SHEAD 10 -1.40 P 11 -11 -3.20					
(m)	0405	DATUM <u>AHD</u>	DATE COMPLETED 20/4/05	DRILLER GEO DRILLING P	JA FI
-3.20	MASSING CORE DRILLING M() M BANDO SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY USC C(ww) DSHIDAGS ELF FILTHOLOGY WEATHERING FILTHOLOGY C(ww) DSHIDAGS SSO SSO SSO SSO SSO SSO SSO SSO SSO S	ADDITIONAL DATA AND TEST RESULTS	TESTS
- 12 - 3.800 - 13 - 4.400 - 13 - 4.400 - 13 - 14 - 6.12 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	(98)	slightly rough and clean. SANDSTONE SW: Pale grey to minor yellow iron staining (see next page). SANDSTONE SW: Fine to medium grained, laminated, low to .medium strength. Defects: Bedding/lamination partings10-20°, occasionally @ 30°.	sw	Is(50)=0.35 MPa Is(50)=0.43 MPa Is(50)=0.52 MPa Is(50)=0.74 MPa	x .
-6.122 - 6.122 - 6.122 - 6.122 - 6.122 - 6.122 - 6.122 - 6.12	(42)	HW: Brown and dark grey. Fractured and sheared in parts. Contains some day or extremely weathered bands. INTERBEDDED MUDSTONE& SANDSTONE SW: Dark grey and grey, fine grained. SANDSTONE SW: Grey and dark grey, thinly laminated, fine grained, low strength. Frequent thin mudstone interbeds and some thin coal interlaminations.	HW Sw	Is(50)=0.02 MPa	x x 0
12 4 9 2000 - BOXELOOS FOUN SOUTHERN APPROACH PIERS AND ABOX 12 12 12 12 12 12 12 12 12 12 12 12 12		Defects: Lamination/bedding partings 10-20°. Defects mostly lamination partings parallel to bedding.		Is(50)=0.04 MPa	× 0
2010H11H10H10H10H10H10H10H10H10H10H10H10H		Borehole terminated at 14.72m			
			;		
REMARKS				LOGGED BY J. LESTER & A. DISSANAYAKI	

Gateway Upgrade Project - Gateway Bridge Project:

Borehole No: BH 3 1.00m Start Depth: Finish Depth: 14.72m Project No: FG 5388

H No:

9552



Project: Gateway Upgrade Project - Gateway Bridge

Borehole No: BH 3
Start Depth: 1.00m
Finish Depth: 14.72m
Project No: FG 5388

Project No: FG 53 H No: 9552



