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Queensland
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Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH2

SHEET 1 of 2

REFERENCE No H9551

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION

LOCATION ABUTMENT A

COORDINATES 10543.8 E; 167251.3 N

PROJECT No FG5388

SURFACE R.L. 21.32

DATE STARTED 24/4/05

DATUM SETP

JOB No 0405

DATUM AHD

DATE COMPLETED 24/4/05

DRILLER GEO DRILLING PTY LTD

DEPTH (m)	R.L. (m)	AUGER CASING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	21.32					SILTY GRAVEL Grey.									
	21.12					SANDSTONE MEDIUM GRAINED MAINLY MASSIVE TO SLIGHTLY LAMIONATED POORLY CEMENTED SEDIMENTARY ROCK									
			(100)			MW : Pale grey to mottled red brown, medium grained, mainly massive to laminated, mainly low to medium strength.							Is(50)=0.10 MPa Is(50)=0.07 MPa	x	o
			100 (85)			Occasional interbeds of mudstone up to 80mm thick. Minor orange brown iron staining in parts with some high strength iron cemented sands.							XW Clayey band. Jt, 70-80°, PL, 5mm clay infill.		
						Defects : - Lamination/ bedding partings < 10°(5/m). - Occasional joints @ 70-80° (1//m)							Is(50)=0.10 MPa Is(50)=0.25 MPa	x	o
			(100)			Defects are planar, smooth to slightly rough, clean or occasionally with 5mm thick clay infill.							Jt, 30°, PL, R, T, Ir. Is(50)=0.21 MPa Jt, 20°, PL, R, C, 1mm clay infill. Is(50)=0.57 MPa	x	o
													Is(50)=0.13 MPa Is(50)=0.04 MPa	x	o
	17.62					INTERBEDDED MUDSTONE & SANDSTONE (SANDSTONE DOMINANT)							Is(50)=0.95 MPa	o	
			(86)			MW : Dark grey and grey with red iron staining, fine to medium grained very low to low strength.							Jt, 40°, St, SR, Ir. Is(50)=0.01 MPa Is(50)=0.19 MPa Is(50)=0.10 MPa Is(50)=0.49 MPa	x	o
	16.87					SANDSTONE							Jt, 10°, PL, SM, 2mm clay infill. Is(50)=0.19 MPa Is(50)=0.54 MPa	x	o
						MW : Pale grey with orange-red iron staining, very coarse grained, low to medium strength.							Jt, 70°, PL, SM, T, Ir. Is(50)=0.06 MPa Is(50)=0.14 MPa	x	o
	16.07					Occasional pebbles and thin mudstone interbeds.							Contact, 10°, PL, SM, 2mm clay infill, iron stained. Is(50)=0.12 MPa	o	
			(100)			INTERBEDDED MUDSTONE & SANDSTONE							Is(50)=0.10 MPa Is(50)=0.48 MPa	x	o
						SW : Fine grained, low strength.							Is(50)=0.16 MPa Is(50)=0.14 MPa	x	o
	15.42					SANDSTONE							Jt, 70°, PL, C.		
						MW : Pale grey with orange iron staining, coarse grained, mainly low to mdium strength.							Jt, 30°, PL, SR, CN, minor clayey weathering. Is(50)=0.03 MPa	x	
			(97)			Occasional mudstone or fine grained sandstone interbeds.							Jt, 30°, PL, T, 1mm clay infill. Is(50)=0.12 MPa	o	
						Defects : Bedding partings 10 - 20°. Joints @ 30° and 70°							Jt, 70°, PL, 2mm clay infill.		
						Clayey weathering zone.							2 Jts, 70°, PL, T, 2mm clay infill, 40mm vertical displacement.		
			(100)			Pale grey with orange iron staining, medium - coarse grained.									
						Defects mostly 30° or 70°, PL, Closed, or occasionally with clay infill up to 2mm thick.									
10	11.32														

REMARKS

LOGGED BY

J. LESTER & A. DISSANAYAKE (DIS)



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ENGINEERING BOREHOLE

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

BOREHOLE No BH2
SHEET 2 of 2
REFERENCE No H9551

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION
LOCATION ABUTMENT A COORDINATES 10543.8 E; 167251.3 N
PROJECT No FG5388 SURFACE R.L. 21.32 DATE STARTED 24/4/05 DATUM SETP
JOB No 0405 DATUM AHD DATE COMPLETED 24/4/05 DRILLER GEO DRILLING PTY LTD

BOREHOLE WITH LITHOLOGY 24.5.2005 - BORELOGS FOR SOUTHERN APPROACH PIERS AND ABUT A.G.P.J. ENGINEERING BOREHOLE 09.04.GDT 31/8/05

DEPTH (m)	R.L. (m)	AUGER CASING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	11.32								EH VH EH MH VL	20 60 200 600 2000			
					(70)	SANDSTONE MW : (As above). Contains some extremely weathered clayey zones.		MW				Clayey weathering zone. XW Clayey sand. Clay seam, 10°, brown.	
	10.47							XW-HW					
								MW				Clay seam, 10°, brown. Is(50)=1.62 MPa Is(50)=0.72 MPa	x o
11						INTERBEDDED MUDSTONE & SILTSTONE (MUDSTONE DOMINANT) SW : Grey and dark grey, fine grained, laminated, very low to low strength. Thin carbonaceous laminations throughout. Defects : - Mostly lamination partings parallel to bedding (10°) - Occasional joints @70°, Defects are PL, SM & CN.		SW				Clay seam, 10°, dark grey, stiff. Jt,70°,PL,SM,CN. Sheared seam,10°, 20mm thick.	
					(100)							Is(50)=0.05 MPa Is(50)=0.19 MPa	x o
12	9.37					SANDSTONE SW : Pale grey, medium grained, generally massive, mainly medium strength. Occasional mudstone interbands. Defects : Faint bedding partings ~10°.		SW				Jt,70°,Un,R,T.	
												Is(50)=0.35 MPa Is(50)=0.33 MPa	x o
13	7.97					INTERBEDDED MUDSTONE & SANDSTONE (MUDSTONE DOMINANT) SW : Pale grey to dark grey, laminated and interbedded, low to medium strength. Occasional siltstone bands. Defects : - lamination Bedding partings <10°. - Occasional Joints @ 70°.		SW				Jt,80°,Cu,R,CN. Jt,70-80°,PL-Cu,R,T,CN.	
												Is(50)=0.08 MPa Is(50)=0.41 MPa Is(50)=0.38 MPa Is(50)=0.02 MPa Is(50)=0.04 MPa Is(50)=0.16 MPa Is(50)=0.02 MPa Is(50)=0.07 MPa	x o o o x o o o
14	6.80				(100)	SANDSTONE SW : Pale grey, fine to medium grained, mainly medium strength. Minor mudstone interbands ; occasional carbonaceous laminations.		SW				Is(50)=0.55 MPa Is(50)=0.56 MPa	x o
15	5.98												
16						Defects: Mostly lamination/bedding partings (10-20°). Borehole terminated at 15.34m							
17													
18													
19													
20													

REMARKS

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J. LESTER & A. DISSANAYAKE (DIS)

Project: **Gateway Upgrade Project - Gateway Bridge**

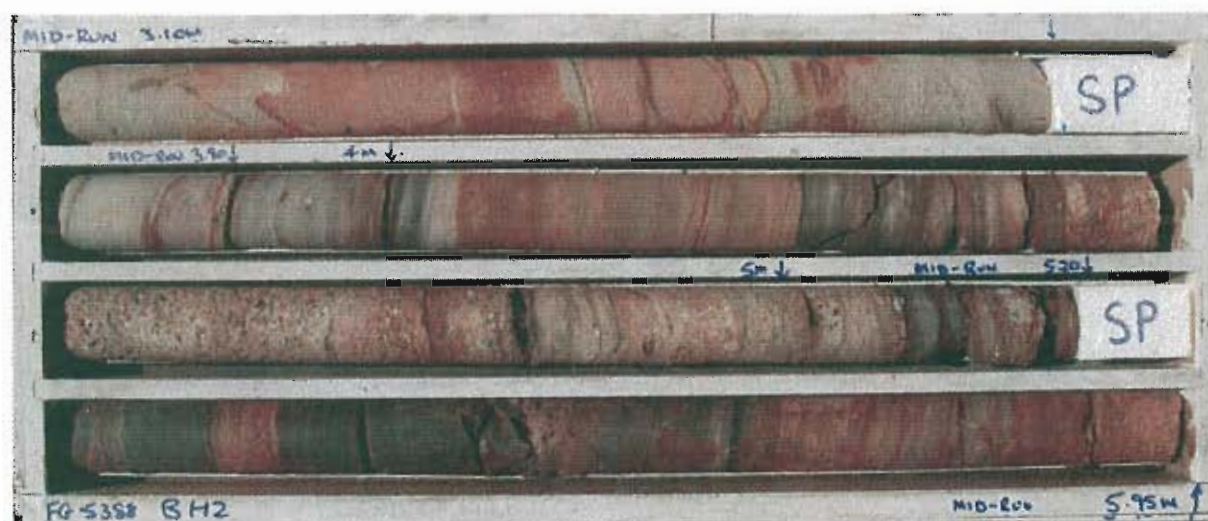
Borehole No: **BH 2**

Start Depth: 0.7m

Finish Depth: 15.34m

Project No: FG 5388

H No: 9551



Project: **Gateway Upgrade Project - Gateway Bridge**

Borehole No: **BH 2**

Start Depth: 0.7m

Finish Depth: 15.34m

Project No: FG 5388

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