Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH8
SHEET 1 of 2
REFERENCE No H9557

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION
LOCATION PIER 5 - DOWNSTREAM/RIGHTHAND SIDE COORDINATES 10397.3 E; 167581.7 N
PROJECT No FG5388 SURFACE R.L. 9.44 DATE STARTED 18/04/05 DATUM SETP
JOB No 0405 DATUM AHD DATE COMPLETED 18/04/05 DRILLER GEO DRILLING PTY LTD

DEPTH (m)	R.L. (m)	MATERIAL DESCRIPTION	USC	WEATHERING	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	9.44	**FILL** Grey to mottled grey, dry, stiff clayey silt. Some gravels in the upper area of the profile.	CL			6,4,6 N=10		SPT
2	7.44	**SANDSTONE** **MEDIUM TO COARSE GRAINED** **MAINLY MASSIVE TO SLIGHTLY** **LAMINATED POORLY CEMENTED** **SEDIMENATARY ROCK** HW : Pale grey to pink to mottled red, dry, very dense silty sand rapidly grading into very low to low strength rock.	HW			30/110 N>50		SPT
3	6.52	(56)	MW			Is(50)=0.01 MPa Is(50)=0.01 MPa	x o	
	6.14	MW : Pale grey to pink to mottled red, mainly medium to coarse grained mainly very low to low strength. Core appears to be highly erodable and friable especially around defect planes & exhibits sandy properties with excessive wetting.				Is(50)=0.06 MPa	x	
4	5.34	**SILTSTONE** **FINE GRAINED THINLY LAMINATED** **SEDIMENTARY ROCK** MW : Pale grey to white, fine grained, thinly laminated, very low to low strength.	MW			Is(50)=0.06 MPa Is(50)=0.06 MPa	x o	
5		73 (19) Core crumbles with excessive drying and exhibits high plastic clay properties with excessive wetting ; gradually grading into sandstone with depth.			Coreloss	Is(50)=0.06 MPa Is(50)=0.03 MPa	x o	
6		**SANDSTONE** **MEDIUM TO COARSE GRAINED** **MAINLY MASSIVE TO SLIGHTLY** **LAMINATED POORLY CEMENTED** **SEDIMENATARY ROCK** MW : Pale grey to pink to mottled red, mainly medium to coarse grained, mainly very low to low strength. Core appears to be highly erodable and crumbles and exhibits sandy properties with excessive wetting.	MW			Is(50)=0.12 MPa Is(50)=0.08 MPa	x o	
7					Coreloss			
8	1.20	28 (74)						
9		**INTERBEDDED SANDSTONE AND MUDSTONE (SANDSTONE DOMINANT)** MW : Dark grey and white banded, fine to medium grained, interbedded/laminated very low to medium strength.	MW			Is(50)=0.30 MPa Is(50)=0.39 MPa Is(50)=0.48 MPa	x o o	
10	-0.56	100 (67)			Clay band			

BOREHOLE WITH LITHOLOGY 24_5_2005 - BORELOGS FOR SOUTHERN APPROACH PIERS AND ABUT A.GPJ ENGINEERING BOREHOLE 09_04.GDT 31/08/05

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)

Queensland Government
Department of Main Roads

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BOREHOLE No BH8
SHEET 2 of 2
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DRILLER GEO DRILLING PTY LTD

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	-0.56				**INTERBEDDED SANDSTONE AND MUDSTONE** MW : (As above).		MW					Is(50)=0.10 MPa Is(50)=0.06 MPa Is(50)=0.08 MPa Is(50)=0.42 MPa Is(50)=0.09 MPa Is(50)=0.10 MPa	x o x o x o	
11	-1.81		100 (84)		**SILTSTONE - FINE GRAINED THINLY LAMINATED SEDIMENTARY ROCK** MW : Pale grey to grey fine grained thinly laminated mainly very low to low strength. Gradually grading into interbedded sandstone and mudstone.		MW					Is(50)=0.16 MPa Is(50)=0.11 MPa Is(50)=0.18 MPa Is(50)=0.17 MPa Is(50)=0.16 MPa Is(50)=0.09 MPa	x o o x x o	
12	-3.26		100 (100)		**INTERBEDDED SANDSTONE AND MUDSTONE (MUDSTONE DOMINANT)** MW : Dark grey and white banded, fine to medium grained, interbedded/laminated mainly low strength. Two healed fault planes @ 12.45m (75°) and 12.65m (65°).		MW					Is(50)=0.23 MPa Is(50)=0.14 MPa Is(50)=0.10 MPa Is(50)=0.12 MPa Is(50)=0.10 MPa Is(50)=0.13 MPa	x o x o x o	
13														
14	-4.66		100 (91)		**SANDSTONE** **FINE TO MEDIUM GRAINED MAINLY SLIGHTLY LAMINATED TO MASSIVE POORLY CEMENTED SEDIMENATARY ROCK** SW : Pale grey to white, fine to medium grained mainly mainly very low to low strength.		SW					Is(50)=0.03 MPa Is(50)=0.05 MPa	o x	
15	-5.96		100									Is(50)=0.03 MPa Is(50)=0.01 MPa	x o	
16					Clay infilled subvertical fault features throughout, becoming erodable and friable with depth. Borehole terminated at 15.4m									
17														
18														
19														
20														

BOREHOLE WITH LITHOLOGY 24_5_2005 - BORELOGS FOR SOUTHERN APPROACH PIERS AND ABUT A.GPJ ENGINEERING BOREHOLE 09_04.GDT 31/08/05

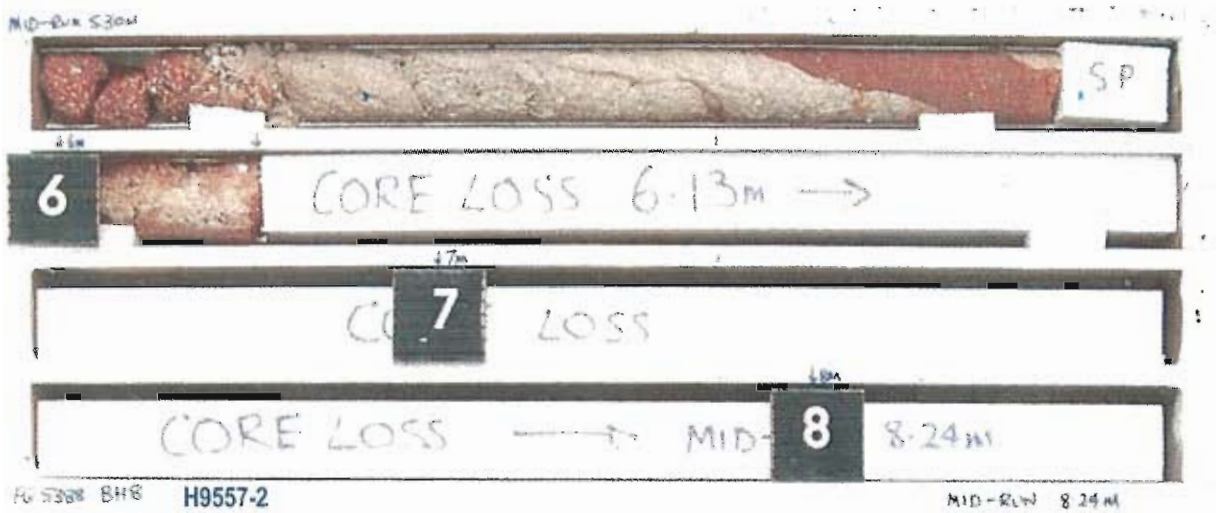
REMARKS

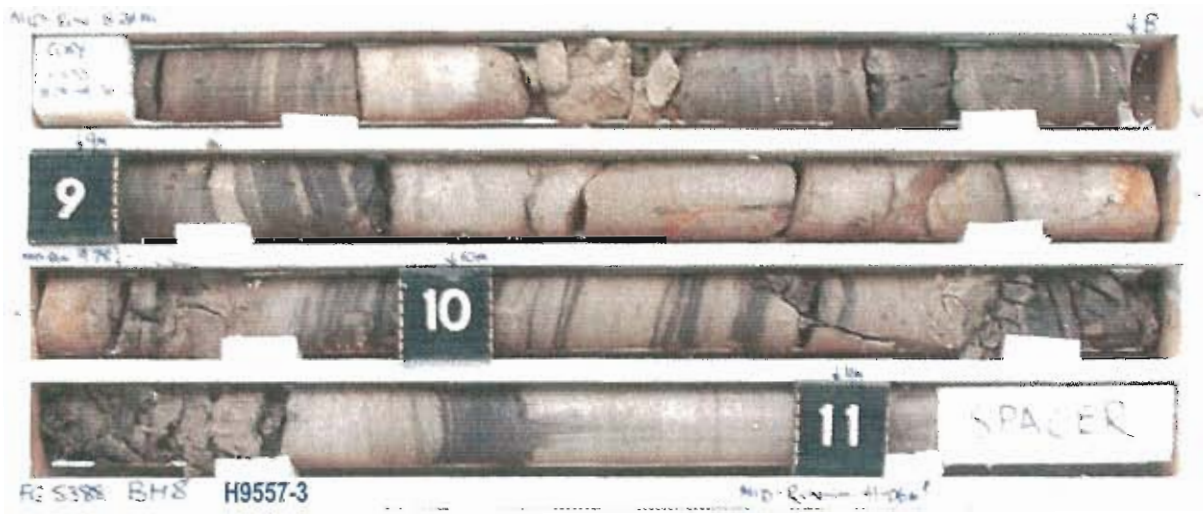
LOGGED BY
A. DISSANAYAKE (DISS)

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

Borehole No: **BH 8**

Start Depth: 2.70m
Finish Depth: 15.40m
Project No: FG 5388
H No: 9557





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