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**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)	AUGER Casing Wash Boring 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	9.44					FILL Grey to mottled grey, dry, stiff clayey silt. Some gravels in the upper area of the profile.							
1							CL					6.4,6 N=10	SPT
2	7.44					SANDSTONE MEDIUM TO COARSE GRAINED MAINLY MASSIVE TO SLIGHTLY LAMINATED POORLY CEMENTED SEDIMENTARY 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 : 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.	MW					Is(50)=0.01 MPa Is(50)=0.01 MPa Is(50)=0.06 MPa Is(50)=0.06 MPa	x o x o
4	6.14					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)=0.03 MPa	x o
5	5.34		73 (19)			Core crumbles with excessive drying and exhibits high plastic clay properties with excessive wetting ; gradually grading into sandstone with depth.							
6						SANDSTONE MEDIUM TO COARSE GRAINED MAINLY MASSIVE TO SLIGHTLY LAMINATED POORLY CEMENTED SEDIMENTARY 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													
8	1.20		28 (74)			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
9													
10	-0.56		100 (67)										

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)



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ENGINEERING BOREHOLE

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SYMBOLS REFER FORM F:GEOT 017/2-2004

BOREHOLE No **BH8**

SHEET **2** of **2**

REFERENCE No **H9557**

PROJECT **GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION**

LOCATION **PIER 5 - DOWNSTREAM/RIGHTHAND SIDE**

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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 31/08/05

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING 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	-0.56					INTERBEDDED SANDSTONE AND MUDSTONE MW : (As above).								
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.		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 o o x o
12	-3.26		100 (100)			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
13						INTERBEDDED SANDSTONE AND MUDSTONE (MUDSTONE DOMINANT) MW : Dark grey and white banded, fine to medium grained, interbedded/laminated mainly low strength.		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
14	-4.66		100 (91)			Two healed fault planes @ 12.45m (75°) and 12.65m (65°).								
15	-5.96		100			SANDSTONE FINE TO MEDIUM GRAINED MAINLY SLIGHTLY LAMINATED TO MASSIVE POORLY CEMENTED SEDIMENTARY ROCK SW : Pale grey to white, fine to medium grained mainly very low to low strength.		SW					Is(50)=0.03 MPa Is(50)=0.05 MPa Is(50)=0.03 MPa Is(50)=0.01 MPa	o x x o
16						Clay infilled subvertical fault features throughout, becoming erodable and friable with depth. Borehole terminated at 15.4m								
17														
18														
19														
20														

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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Borehole No: **BH 8**
Start Depth: 2.70m
Finish Depth: 15.40m
Project No: FG 5388
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