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ENGINEERING BOREHOLE

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

BOREHOLE No BH28
SHEET 1 of 4
REFERENCE No H9577

PROJECT GATEWAY BRIDGE DUPLICATION FOUNDATION INVESTIGATION - GATEWAY UPGRADE PROJECT
LOCATION PIER 16 - DOWN STREAM END COORDINATES 9889.1 E; 168596.5 N
PROJECT No FG5388 SURFACE R.L. 3.77 DATE STARTED 09/02/05 DATUM SETP
JOB No DATUM AHD DATE COMPLETED 10/02/05 DRILLER R&D DRILLING PTY LTD

DEPTH (m)	R.L. (m)	ALUSER 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	3.77					FILL Brown to grey, moist, stiff, gravelly clay. Occasional lithic fragments.		GC				Drilling records only	
1	3.02					ESTUARINE WEATHERED OC CRUST Dark grey to mottled grey, slightly moist, soft to mainly firm.		OL				1,2,2 N=4	SPT
2	2.02					ESTUARINE SILTY CLAY Dark grey to dark brown, moist, very soft. High plasticity, slightly organic.						1,1,- N<1	SPT
3												HW,-,- N<1	SPT
4												HW,-,- N<1	SPT
5							OH					RW,HW,- N<1	SPT
6													
7													
8	4.23					SANDY SILT Dark grey to black, wet, very soft to soft. Very fine grained sand.							
9							SM					RW,-,2 N<1	SPT
10	-6.23												

REMARKS Defect angles have been measured with respect to a horizontal plane.

LOGGED BY
A. DISSANAYAKE (DISS)



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BOREHOLE No BH28

SHEET 2 of 4

REFERENCE No H9577

PROJECT GATEWAY BRIDGE DUPLICATION FOUNDATION INVESTIGATION - GATEWAY UPGRADE PROJECT

LOCATION PIER 16 - DOWN STREAM END COORDINATES 9889.1 E; 168596.5 N

PROJECT No FG5388 SURFACE R.L. 3.77 DATE STARTED 09/02/05 DATUM SETP

JOB No DATUM AHD DATE COMPLETED 10/02/05 DRILLER R&D DRILLING PTY LTD

DEPTH (m)	R.L. (m)	ADGER 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
									SH	CH	VI	IN	VL	EL				
10	-6.23					SANDY SILT (As above)		SM									HW, -1 N<1	SPT
11	-7.23					SILTY SAND Dark grey to black, wet, medium dense. Occasional calcareous concretions and shell fragments.		SM									8.7.4 N=11	SPT
12																		
13	-8.73					ESTUARINE SILTY CLAY Dark grey to dark brown, moist to slightly wet, very soft. Partly decomposed shell fragments, minor fine grained sand fraction towards bottom.											RW, -1 N<1	SPT
14																		
15																	HW, -1 N<1	SPT
16								OH									RW, -1 N<1	SPT
17																		
18																	RW, -1 N<1	SPT
19																		
20	-16.23																RW, -1 N<1	SPT

BOREHOLE WITH LITHOLOGY GATEWAY UPGRADE PROJECT.GPJ ENGINEERING BOREHOLE 09 04.GDT 31/08/05

REMARKS Defect angles have been measured with respect to a horizontal plane.

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BOREHOLE No **BH28**

SHEET **3** of **4**

REFERENCE No **H9577**

PROJECT GATEWAY BRIDGE DUPLICATION FOUNDATION INVESTIGATION - GATEWAY UPGRADE PROJECT

LOCATION PIER 16 - DOWN STREAM END

COORDINATES 9889.1 E; 168596.5 N

PROJECT No FG5388

SURFACE R.L. 3.77

DATE STARTED 09/02/05

DATUM SETP

JOB No

DATUM AHD

DATE COMPLETED 10/02/05

DRILLER R&D 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
20	-16.23					ESTUARINE SILTY CLAY (As above)								
21													RW, HW N<1 N<1	SPT
22													RW, HW N<1	SPT
23													RW, HW N<1	SPT
24													RW, HW N<1	SPT
25								OH					RW, HW N<1	SPT
26													RW, HW N<1	SPT
27													RW, HW N<1	SPT
28													1, HW N<1	SPT
29														
30	-26.23												RW, HW N<1	SPT

REMARKS Defect angles have been measured with respect to a horizontal plane.

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BOREHOLE No **BH28**

SHEET **4** of **4**

REFERENCE No **H9577**

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

LOCATION **PIER 16 - DOWN STREAM END** COORDINATES **9889.1 E; 168596.5 N**

PROJECT No **FG5388** SURFACE R.L. **3.77** DATE STARTED **09/02/05** DATUM **SETP**

JOB No **---** DATUM **AHD** DATE COMPLETED **10/02/05** DRILLER **R&D DRILLING PTY LTD**

DEPTH (m)	R.L. (m)	ALGER 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
30	-26.23					ESTUARINE SILTY CLAY (As above)		OH					
31	-26.73					INTERBEDDED MUDSTONE AND SANDSTONE HW : Medium to high strength sandstone, rock kernels in silty sand matrix. Gradually grading into very low to low strength rock.		HW				High strength sandstone interbed	
32	-28.30					MUDSTONE FINE GRAINED, THINLY LAMINATED, WEAK, SEDIMENTARY ROCK. SW : Dark grey to black, thinly laminated, very low to mainly low strength. Defects - - Frequent drilling induced lamination partings 30° (<5/m). - Joints at 60° (4-5/m).		SW				Core loss	
33			53 (73)									Is(50)=1.60 MPa Is(50)=1.06 MPa	x o
34			100 (70)									High strength sandstone interbed	
35			100 (72)									Is(50)=0.31 MPa Is(50)=0.25 MPa	o x
36	-31.53		100 (70)										
37						Borehole terminated at 35.3m							
38													
39													
40													

REMARKS **Defect angles have been measured with respect to a horizontal plane.**

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Project: **Gateway Bridge Duplication Investigation**

Borehole No: **BH 28**

Start Depth: 31.00m

Finish Depth: 35.30m

Project No: FG5388

H No: 9459

