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## ENGINEERING BOREHOLE

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

GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION PROJECT PIER 5 - UPSTREAM/LEFT HAND SIDE LOCATION COORDINATES 10385.3 E; 167575.7 N PROJECT No \_FG5388 \_ \_ \_ \_ SURFACE R.L. \_\_9.82 \_\_\_ DATE STARTED 19/04/05 DATUM SETP\_\_\_\_\_ JOB No 0405 DATUM \_AHD \_\_ DATE COMPLETED 19/04/05 DRILLER GEO DRILLING PTY LTC R.L. RQD INTACT DEFECT (m) ()% SPACING ADDITIONAL DATA STRENGTH DEPTH (m) 9 MATERIAL (mm) AND AUGER CASING CORED SAMPLE SAMPLES DESCRIPTION TESTS CORE TEST RESULTS REC % 0 Dark grey to black, dry, very stiff clayey silt. CŁ 6,12,15 SPT 7.82 -2 ENGINEERING BOREHOLE 09 04.GDT 31/08/05 SANDSTONE MEDIUM TO COARSE GRAINED MAINLY LAMINATED TO SLIGHTLY MASSIVE POORLY CEMENTED 30/110 SPT SEDIMENTARY ROCK N>50 (73) HW: Pale grey to mottled red, mainly dry, very dense silty sand rapidly grading into very low to low strength rock. Is(50)=0.02 MPa Is(50)=0.02 MPa Some clayey siltstone bands up to 50mm; HW core appears to be erodable and crumble. (69)A.GPJ 100 (60) PIERS AND ABUT 4.77 -5 MW: Pale grey to mottled red, fine to ls(50)=0.01 MPa medium grained, massive to mainly 100 (s(50)=0.01 MPa laminated, low to medium strength. 0 (96) ls(50)=0.11 MPa ls(50)=0.04 MPa ls(50)=0.03 MPa SOUTHERN APPROACH 0 - 6 ls(50)=0.01 MPa BORELOGS FOR S (64) Clayey sand MW Coreloss 2005 (96)Is(50)=0.02 MPa Is(50)=0.13 MPa -8 0 Is(50)=0.03 MPa Is(50)=0.03 MPa 24 0 BOREHOLE WITH LITHOLOGY ls(50)=0.02 MPa ls(50)=0.01 MPa ls(50)=0.03 MPa 100 (89) - 9 Is(50)=0.02 MPa ٥ 0.55 CARBONACEOUS MUDSTONE - FINE Is(50)=0.10 MPa Is(50)=0.03 MPa **GRAINED THINLY LAMINATED FISSILE** 0 CARBONACEOUS SEDIMENTARY MW (s(50)=0.10 MPa Sandstone interbed ROCK ls(50)=0.07 MPa 0 Is(50)=0.03 MPa REMARKS LOGGED BY A. DISSANAYAKE (DISS)



## ENGINEERING BOREHOLE

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

BOREHOLE No	BH9
SHEET	_2_ of _2_
REFERENCE No	H9558

GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION PROJECT PIER 5 - UPSTREAM/LEFT HAND SIDE LOCATION COORDINATES 10385.3 E; 167575.7 N PROJECT No FG5388 SURFACE R.L. \_ 9.82 DATE STARTED 19/04/05 DATUM SETP JOB No 0405 DATUM \_AHD \_. DATE COMPLETED 19/04/05 DRILLER GEO DRILLING PTY LTC R.L ROD DEFECT INTACT ()% ADDITIONAL DATA STRENGTH SPACING Ξ 8 MATERIAL (mm) DEPTH ( AND SAMPLES DESCRIPTION TESTS CORE TEST RESULTS nsc REC % 10 -0.18 11111 CARBONACEOUS MUDSTONE Is(50)=0.02 MPa MW: Grey to black, laminated, fine to Is(50)=0.03 MPa X O Silty clay bed. (81)medium grained, very low to low strength. Is(50)=0.04 MPa MM Becoming more carbonaceous and contains coarse to very coarse quarztitic -1.03gravel along the profile; appers to be ls(50)=0.04 MPa erodable with depth. х SANDSTONE ls(50)=0.04 MPa FINE TO MEDIUM GRAINED MAINLY Is(50)=0.09 MPa Is(50)=0.02 MPa o LAMINATED TO SLIGHTLY MASSIVE POORLY CEMENTED SEDIMENTARY ls(50)=0.01 MPa 0 ROCK (100)Is(50)=0.28 MPa MW: Pale grey to mottled red, fine to ٥ medium grained, massive to mainly ls(50)=0.10 MPa laminated, mainly low to medium strength. 04.GDT Defects: Generally rare. MW - Lamination partings - 10°-30° (1-2/m) ENGINEERING BOREHOLE 09 (87) Is(50)=0.14 MPa 0 Is(50)=0.36 MPa Х -4.33 ls(50)=0.30 MPa ls(50)=0.27 MPa (100) SW: Pale grey to white mainly massive to slightly laminated, very low to mainly low ABUT A.GPJ strength. Is(50)=0.14 MPa Is(50)=0.28 MPa 0 Minor red brown iron staining in and SW - 15 around some defects. Is(50)=0.07 MPa х SOUTHERN APPROACH PIERS AND A Clay seam Is(50)=0.05 MPa o Defects: Generally rare. Is(50)=0.22 MPa Is(50)=0.09 MPa - Lamination partings - 10°-30° (1-2/m) Coal seam X O -5.93 100 ls(50)=0.03 MFa ls(50)=0.15 MPa ls(50)=0.14 MPa Borehole terminated at 15.75m BORELOGS FOR BOREHOLE WITH LITHOLOGY 24 5 2005 REMARKS LOGGED BY A. DISSANAYAKE (DISS)

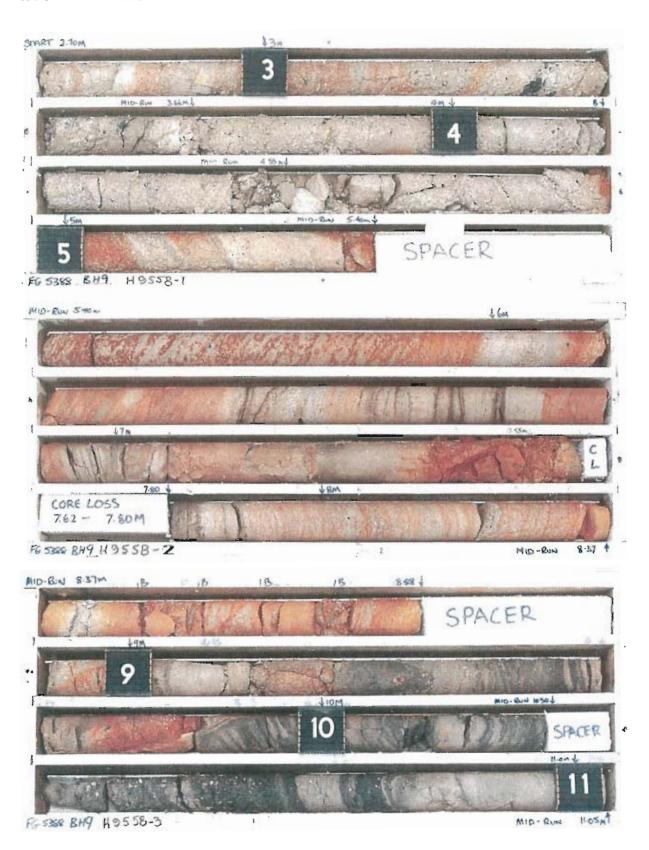
Project: Gateway Upgrade Project - Gateway Bridge

Borehole No: BH9

Start Depth: Finish Depth: 2.70m 15.75m FG 5388

Project No: H No:

9558



Project: Gateway Upgrade Project - Gateway Bridge

Borehole No: BH 9
Start Depth: 2.70m
Finish Depth: 15.75m
Project No: FC 5288

Project No: FG 5388 H No: 9558

