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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 BH4
SHEET 1 of 2
REFERENCE No H9553

PROJECT GATEWAY UPGRADE PROJECT - GATEWAY BRIDGE FOUNDATION INVESTIGATION

LOCATION PIER 1 - UPSTREAM/LEFTHAND SIDE

COORDINATES 10507.3 E; 167300.1 N

PROJECT No FG5388

SURFACE R.L. 18.63

DATE STARTED 26/04/05

DATUM SETP

JOB No 0405

DATUM AHD

DATE COMPLETED 26/04/05

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 | 18.63 | | | | | | | | | | | | |
| 1 | 18.33 | | | | | FILL - SILTY GRAVEL Grey | | GC | | | | Driller's record only. | |
| | | | | | | RESIDUAL SANDY SILT Pale grey, dry, stiff to very stiff. | | RS | | | | Driller's record only. | |
| | 17.73 | | | | | | | | | | | | |
| | | | (100) | | | SILTSTONE FINE GRAINED THINLY LAMINATED SEDIMENTARY ROCK HW : Pale grey to mottled red, massive, very low strength. | | HW | | | | Is(50)=0.05 MPa Is(50)=0.02 MPa | x o |
| | 16.83 | | | | | MW : Pale grey to grey brown to mottled red, mainly massive to laminated, very low to low strength. | | | | | | Is(50)=0.05 MPa Is(50)=0.12 MPa | x o |
| | | | 100 (100) | | | Some healed shearing and tectonic features; gradually grading into sandy towards bottom; minor sandstone interbeds. | | | | | | Is(50)=0.05 MPa Is(50)=0.04 MPa Is(50)=0.03 MPa Is(50)=0.09 MPa Is(50)=1.81 MPa Is(50)=0.02 MPa | x o o x x x |
| | | | | | | | | MW | | | | Is(50)=0.12 MPa Is(50)=0.16 MPa | x o |
| | | | 100 (100) | | | | | | | | | Is(50)=0.06 MPa Is(50)=0.01 MPa | x o |
| | | | | | | | | | | | | Is(50)=0.01 MPa Is(50)=0.06 MPa | x o |
| | 13.13 | | | | | SANDSTONE MEDIUM TO COARSE GRAINED POORLY CEMENTED SEDIMENTARY ROCK MW : Pale grey to pink to mottled red, mainly medium to coarse grained mainly low to medium strength. | | | | | | Is(50)=0.03 MPa Is(50)=0.02 MPa | x o |
| | | | 100 (100) | | | Defects : Generally rare. - Lamination partings 10-20° (1/m) - Occasional joints @ 50-60° (1/m). | | | | | | Is(50)=0.01 MPa Is(50)=0.03 MPa | x o |
| | | | | | | | | MW | | | | Is(50)=0.05 MPa Is(50)=0.05 MPa Is(50)=0.03 MPa Is(50)=0.08 MPa Is(50)=0.09 MPa Is(50)=0.02 MPa | x o x o x o |
| | | | 100 (80) | | | | | | | | | Clay seam. Is(50)=0.15 MPa Is(50)=0.07 MPa | o x |
| | 9.43 | | | | | CARBONACEOUS SILTSTONE AND MUDSTONE FINE GRAINED THINLY LAMINATED SEDIMENTARY ROCK SW: (As below) | | HW | | | | Is(50)=0.11 MPa Is(50)=0.43 MPa | x o |
| | | | 100 (95) | | | | | SW | | | | Is(50)=0.07 MPa | o |
| 10 | 8.63 | | | | | | | | | | | | |

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)



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BOREHOLE No BH4

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REFERENCE No H9553

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|-----------|----------|--|----------|------------|--------|--|-----------|----------------|-----------------|---------------------|-------------|--|--------------------------------------|
| 10 | 8.63 | | | | | SW : Pale grey to black, fine grained, thinly laminated low to mainly low strength. Rehealed sheared and tectonic features throughout. Defects : Generally rare. Occasional drilling induced lamintation partings <30° (1-2/2m) | | | | | | Is(50)=0.09 MPa Is(50)=0.06 MPa | x o |
| 11 | | | | | | | | | | | | Is(50)=0.07 MPa Is(50)=0.24 MPa Is(50)=0.09 MPa Is(50)=0.13 MPa | x o x o |
| 12 | | | | | | | | | | | | Is(50)=0.03 MPa Is(50)=0.06 MPa Is(50)=0.19 MPa Is(50)=0.17 MPa Is(50)=0.12 MPa Is(50)=0.15 MPa Is(50)=0.18 MPa Is(50)=0.16 MPa | x o x o x o x o |
| 13 | | | 100 (95) | | | | | SW | | | | Is(50)=0.14 MPa Is(50)=0.16 MPa Is(50)=0.08 MPa Is(50)=0.10 MPa Is(50)=0.19 MPa Is(50)=0.07 MPa Is(50)=0.12 MPa | x o x o x x o |
| 14 | | | | | | | | | | | | Is(50)=0.05 MPa Is(50)=0.03 MPa Is(50)=0.06 MPa | x o o |
| 15 | 3.53 | | 100 | | | Borehole terminated at 15.1m | | | | | | Is(50)=0.13 MPa | x |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |

REMARKS

LOGGED BY
A. DISSANAYAKE (DISS)

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

Borehole No: **BH 4**

Start Depth: 0.9m

Finish Depth: 15.10m

Project No: FG 5388

H No: 9553



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

Borehole No: **BH 4**

Start Depth: 0.9m

Finish Depth: 15.10m

Project No: FG 5388

H No: 9553

