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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No BH136
SHEET 1 of 2
REFERENCE No H10938

PROJECT WALKERSTON BYPASS PROJECT GEOTECHNICAL INVESTIGATION - BERGMANS ROAD OVERPASS
LOCATION Abutment A - RHS (Ch.74518.1, 23.4m R of Control Line) COORDINATES 711766.6 E; 7655436.4 N
PROJECT No FG5635 SURFACE R.L. 32.49m PLUNGE -90° DATE STARTED 21/11/10 GRID DATUM _____
JOB No 242/33B/6 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 21/11/10 DRILLER Drillsure Pty Ltd

| DEPTH (m) | R.L. (m) | AUGER CASING ROCK ROLLER CORE DRILLING | RQD (%) | CORE REC % | SAMPLE | MATERIAL DESCRIPTION | USC WEATHERING | INTACT STRENGTH | | | | | DEFECT SPACING (mm) | GRAPHIC LOG | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|--|---------|------------|--------|---|----------------|-----------------|----|----|----|----|---------------------|-------------|---------------------------------------|---------------|
| | | | | | | | | EH | VH | HM | JL | VL | | | | |
| 0 | 32.49 | | | | | Silty GRAVEL (RESIDUAL) Dark grey, moist to wet. Gravel sizing <26.5mm. | (GP) | | | | | | | | -Based on Driller's logs only | |
| 1 | 31.59 | | | | A | VOLCANICLASTIC SANDSTONE Fine to medium grained, predominately massive, crystalline, sedimentary rock. HW: Grey, moist, hard sandy silt gradually grading into extremely low to mainly low strength rock with depth. | HW | | | | | | | | 30/100mm N>50 | SPT |
| 2 | 30.69 | | (46) | | | SW: Grey, fine to medium grained, indurated, generally very high to extremely high strength. | SW | | | | | | | | Is(50) = 1.38MPa Is(50) = 1.51MPa | x o |
| | | | 100 | | | Heavily altered (sericite), relict bedding @ 10-20°, occasionally thinly laminated. | MW | | | | | | | | - Cly seam, 60mm, 10° | |
| | | | (96) | | | Defects: - Bedding @ 10-20° (4/m) - Joints @ 40-90° (1-2/m) Defects are generally planar, smooth and closed to open. | SW MW | | | | | | | | Is(50) = 0.38MPa | o |
| 3 | | | | | | | | | | | | | | | Is(50) = 7.26MPa Is(50) = 4.68MPa | x o |
| 4 | | | 100 | | | | | | | | | | | | Is(50) = 6.61MPa Is(50) = 4.12MPa | x o |
| | | | (84) | | | | | | | | | | | | - Cly BZ | |
| 5 | | | | | | | | | | | | | | | Is(50) = 14.37MPa Is(50) = 3.40MPa | x o |
| | | | 100 | | | | | | | | | | | | | |
| | | | (100) | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | Is(50) = 10.90MPa Is(50) = 7.27MPa | x o |
| | | | 100 | | | | SW | | | | | | | | | |
| | | | (91) | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | | | | | | | | Is(50) = 5.45MPa | o |
| | | | (94) | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | | | | | | | | Is(50) = 13.24MPa | x |
| | | | (94) | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | | | | | | | | | |
| | | | (94) | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | | | | | | | | | |
| | | | (94) | | | | | | | | | | | | | |

REMARKS _____

LOGGED BY
ME / AD

Project: **Walkerston Bypass Bergman Rd**

Borehole No: **BH136**

Start Depth: **1.80m**

Finish Depth: **10.70m**

Project No: **FG5635**

H No:



SCALE 1:5

F:GEO043/1