# GEOTECHNICAL BOREHOLE LOG BH01

*In Accordance with AS1726:2017*

Geotechnical Investigation
B-N Rd and Maudsland Rd
Mount Nathan, QLD
17820.000.001

**Client** : Roadtek
**Date** : 1/10/2020
**Hole Depth** : 6.1 m
**Core Diameter** : 52 mm
**Drilling Method** : Mud Rotary

**Drilling Contractor** : Redlands Ltd
**Logged/Reviewed By** : AK/SF
**Easting/Northing (MGA94)** : 526854.25 / 6906970.49
**Page** :
**Datum/Surface RL** : GHD/51.9 m

| Depth (m BGL) | Drilling Method | Water Level | Elevation (RL) | TCR (%) / RQD (%) | Stratigraphic Unit | Group Symbol (USCS) | MATERIAL DESCRIPTION | Log Symbol | Weathering | Estimated Intact Strength | Average Defect Spacing (ISO14689:2017) | Additional Comments | Test Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | T | ML | **Clayey SILT trace rootlets (Topsoil)**<br>Dark brown, dry, stiff. | | | | | | |
| | Auger | | | | Residual | ML | **Sandy SILT trace gravel (Residual)**<br>Pale brown, dry, very stiff. | | | | | | |
| 1 | SPT | | 51 | 95 / 6 | Neranleigh - Fernvale Beds (DCf) | | **Interbedded METAGREYWACKE and ARGILLITE (DCf)**<br>XW: Recovered as clayey SILT trace gravel.<br>Pale grey mottled brown-orange, hard, dry, low plasticity. | | XW<br>XW<br>HW<br>XW<br>HW | | | 1.14 m - 1.23 m: No recovery<br>2.0 m: HW 70 mm<br>2.31 m: Shear zone 40 mm | SPT: 30 for 140 mm<br>HB<br>PI = 9.8%<br>LL = 27.4%<br>LS = 6.4%<br>EC No. = 2 |
| 2 | | | 50 | | | | **Interbedded METAGREYWACKE and ARGILLITE (DCf)**<br>HW: Orange-brown, dark grey and pale grey, fine to coarse grained, thickly laminated to thinly bedded, typically low strength, RQD (per RMU) = 12%.<br>Extremely weathered zones encountered throughout.<br>BP: 20° to 35°, (8-10/m), Sm, Tl, Fe Stn. | | XW<br>HW<br>XW<br>HW<br>XW | | | 2.42 m: XW 100 mm<br>2.8 m: XW zone 150 mm<br>3.05 m: XW zone 320 mm | |
| 3 | NMLC | | 49 | | | | | | | | | | |
| 4 | | | 48 | 100 / 6 | | | **Interbedded METAGREYWACKE and ARGILLITE (DCf)**<br>MW: Pale grey-brown, dark grey and orange-brown, fine to coarse grained, thickly laminated to thinly bedded, medium to high strength, RQD (per RMU) = 28%.<br>BP: 15° to 30°, (7-9/m), Sm, Tl, Fe Stn<br>Js: 40° to 60°, (1-2/m), Ro, Tl, Fe Stn. | | MW<br>HW<br>MW | | | | $I_{s(50)}(D)$ = 0.42 MPa |
| 5 | | | 47 | | | | | | | | | | |

**Notes:**

Borehole met target depth

T = TOPSOIL

GEOTECHNICAL BOREHOLE LOG - AU BH LOGS.GPJ NZ DATA TEMPLATE 2.GDT 2/11/20

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| Depth (m BGL) | Drilling Method | Water Level | Elevation (RL) | TCR (%) / RQD (%) | Stratigraphic Unit | Group Symbol (USCS) | MATERIAL DESCRIPTION | Log Symbol | Weathering | Estimated Intact Strength (Very Low / Low / Medium / High / Very High / Extremely High) | Average Defect Spacing (ISO14689:2017) (Extremely Close / Very Close / Close / Medium / Wide / Very Wide) | Additional Comments | Test Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | NMLC | | 46 | 100 / 29 | Neranleigh - Fernvale Beds (DCf) | | **Interbedded METAGREYWACKE and ARGILLITE (DCf)**<br>MW: Pale grey-brown, dark grey and orange-brown, fine to coarse grained, thickly laminated to thinly bedded, medium to high strength, RQD (per RMU) = 28%.<br>BP: 15° to 30°, (7-9/m), Sm, TI, Fe Stn<br>Js: 40° to 60°, (1-2/m), Ro, TI, Fe Stn. | | MW | | | 5.2 m: Shear zone 30 mm<br>5.54 m: Shear zone 30 mm | $I_{s(50)}(D) = 0.35$ MPa |

End of Hole Depth : 6.1 m

**Notes:**

Borehole met target depth

T = TOPSOIL

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