

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH09
SHEET 1 of 2
REFERENCE No 11843

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 8 - Left Hand Side COORDINATES 287040.8 E; 7024306.1 N
PROJECT No FG6169 SURFACE R.L. 315.27m PLUNGE _____ DATE STARTED 28/6/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 29/6/14 DRILLER North Coast Drilling

| 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 | 315.27 | | | | | | | | | | | | |
| 0.40 | 314.87 | | | | | Silty CLAY (TOPSOIL) Dark grey black, moist, soft. Low plasticity. Some sand, gravel and organic matter. | (CL) | | | | | | |
| 1 | | | | | A | Silty CLAY (ALLUVIAL) Dark grey, moist, stiff to very stiff. High plasticity. Trace organic matter. | (CH) | | | | | 3,4,8 N=12 | SPT |
| 2 | | | | | B | | | | | | | 4,7,9 N=16 | SPT |
| 3.90 | 312.27 | | | | C | Sandy CLAY (ALLUVIAL) Grey brown, moist, hard. Low plasticity. Fine grained sand. | (CL) | | | | | 10,15,17 N=32 | SPT |
| 3.90 | 311.37 | | | | D | Clayey SAND (ALLUVIAL) Grey brown, moist, medium dense to mainly dense. Fine to medium grained sand. Some gravel. | (SC) | | | | | 9,14,15 N=29 | SPT |
| 4 | | | | | E | | | | | | | 10,14,15 N=29 | SPT |
| 5 | | | | | F | 6.00m: Becoming fine to coarse grained sand with some fine gravel. | | | | | | 11,21,18 N=39 | SPT |
| 6 | | | | | G | 7.00m: Becoming dark brown. | | | | | | 12,16,22 N=38 | SPT |
| 7.90 | 307.37 | | | | H | CLAYSTONE (J_Kk) XW: Recovered as grey, dark brown, moist, hard, gravelly silty clay. Medium plasticity. Dark brown iron oxide precipitate. Medium gravel sized rock fragments. | XW | | | | | 14,30/140mm | SPT |
| 8 | | | | | J | | | | | | | 20,29,30/90mm | SPT |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |

REMARKS J_Kk = Kumbarella Beds

* For this specimen, the load cell used does not comply with the test method requirements.

LOGGED BY
MS

ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH09
SHEET 2 of 2
REFERENCE No 11843

PROJECT Jingi Jingi Creek Bridgesite Investigation
LOCATION Pier 8 - Left Hand Side COORDINATES 287040.8 E; 7024306.1 N
PROJECT No FG6169 SURFACE R.L. 315.27m PLUNGE _____ DATE STARTED 28/6/14 GRID DATUM MGA 94 Zone 56
JOB No 222/18C/5 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 29/6/14 DRILLER North Coast Drilling

| 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 |
|-----------|----------|----------------------------------------|-----------|------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|-----------------|---------------------|-------------|---------------------------------------------------------|--------------------------|
| 10 | 305.27 | | | | | | | | | | | | |
| 11 | | | | | K | CLAYSTONE (J_Kk) XW: (Cont'd) Becoming pale grey, white moist hard silty clay. (No rock fragments) | | | | | | 25,30/120mm | SPT |
| 12 | | | | | L | | | | | | | 13,25,30/130mm | SPT |
| 13 | | | | | M | | | | | | | 30/140mm | SPT |
| 13.20 | 302.07 | | | | N | 12.80m colour change to pale yellow cream. | | | | | | 30/100mm | SPT |
| 14 | | | (54) | | | CLAYSTONE (J_Kk) HW: Pale yellow, dark brown, fine grained, medium bedded, extremely low to mainly very low strength. Some zones of XW rock. Thin lenses of sandstone. Dark brown patches of iron oxide precipitate throughout. Defects: - Js; 60° (1/m); - Js; 40° (1/m); Defects are irregular, rough, weathered, open with clay infill. | | HW | | | | Is(50) = 0.05MPa; * Is(50) = 0.07MPa; * | D (13.30m) A (13.35m) |
| 15 | | | 100 (53) | | | | | XW | | | | 13.75m-14.10m: XW Claystone. Extremely low strength. | |
| 16 | | | | | | | | HW | | | | 14.30m-14.48m: XW Claystone. Extremely low strength. | |
| 17 | | | | | | | | XW | | | | 14.80m-15.15m: XW Claystone. Extremely low strength. | |
| 18 | | | 100 (86) | | | | | HW | | | | Is(50) = 0.04MPa; * Is(50) = 0.08MPa; * | D (15.30m) A (15.34m) |
| 19 | | | 100 (63) | | | | | XW | | | | 17.10m-17.30m: XW Claystone. Extremely low strength. | |
| 20 | | | 100 (70) | | | | | HW | | | | Is(50) = 0.08MPa; * Is(50) = 0.11MPa; * | D (17.99m) A (18.03m) |
| 19.20 | 296.07 | | 100 | | | Borehole terminated at 19.2m. | | | | | | 18.30m-18.75m: XW Claystone. Extremely low strength. | |
| 20 | | | | | | | | | | | | | |

REMARKS J_Kk = Kumbarilla Beds

* For this specimen, the load cell used does not comply with the test method requirements.

LOGGED BY
MS