

## **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) 2026, 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://ggd.org.au/>

# GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS  
REFER TO TMB FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH02A**

Sheet 1 of 3

REFERENCE No **H13322**

|         |                          |
|---------|--------------------------|
| PROJECT | Centenary Bridge Upgrade |
|---------|--------------------------|

|          |                                                                     |
|----------|---------------------------------------------------------------------|
| LOCATION | 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore |
|----------|---------------------------------------------------------------------|

COORDINATES 494752.24 E; 6955251.64 N

PROJECT No FG18012

SURFACE RL 18.11m

PLUNGE 90°

DATE STARTED 07/05/2019

GRID DATUM MGA94 56J

JOB No 498/05038

HEIGHT DATUM m AHD

BEARING

DATE COMPLETED 09/05/2019

DRILLER All Tech Drilling

| DEPTH (m) | R.L. (m) | ALGER CASING | WASH BORING CORE DRILLING | RQD (%) | CORE REC % | SAMPLE | MATERIAL DESCRIPTION                              | LITHOLOGY | GROUP SYMBOL / WEATHERING | INTACT STRENGTH |    |   |   |    | DEFECT SPACING |    |   |   |   | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|--------------|---------------------------|---------|------------|--------|---------------------------------------------------|-----------|---------------------------|-----------------|----|---|---|----|----------------|----|---|---|---|----------------------------------|---------------|
|           |          |              |                           |         |            |        |                                                   |           |                           | EH              | VH | I | M | VL | EC             | VC | O | M | W |                                  |               |
|           | 17.96    |              |                           |         |            | AS-1   | Silty SAND with organics (TOPSOIL)                |           | (SM)                      |                 |    |   |   |    |                |    |   |   |   |                                  | ES            |
|           |          |              |                           |         |            | AS-2   | Dark brown, moist, loose.                         |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | ES            |
|           |          |              |                           |         |            | AS-3   | 70% fine grained sand, subrounded to subangular.  |           |                           |                 |    |   |   |    |                |    |   |   |   | 7, 9, 10<br>N=19                 | SPT           |
| 1         |          |              |                           |         |            | AS-4   | 20% silt.                                         |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | ES            |
|           |          |              |                           |         |            | AS-5   | 10% organics (grass roots, charcoal).             |           | (CI)                      |                 |    |   |   |    |                |    |   |   |   | 10, 24, 25<br>N=49               | SPT           |
|           |          |              |                           |         |            | AS-6   | CLAY trace gravel (Residual)                      |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-7   | Brown mottled red-yellow, moist, very stiff-hard. |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | SPT           |
|           |          |              |                           |         |            | AS-8   | 85% clay, medium plasticity                       |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | SPT           |
| 2         | 16.11    |              |                           |         |            | AS-9   | 15% fine grained gravel, angular.                 |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-10  | Gravelly CLAY trace sand (Residual)               |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | ES            |
|           |          |              |                           |         |            | AS-11  | Brown with pale yellow-orange, dry, hard.         |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  | ES            |
|           |          |              |                           |         |            | AS-12  | 60% clay, low plasticity                          |           |                           |                 |    |   |   |    |                |    |   |   |   | 30/140mm                         | SPT           |
| 3         |          |              |                           |         |            | AS-13  | 35% fine grained gravel, angular.                 |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-14  | 5% medium to coarse grained sand, angular.        |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-15  | From 3.0m: Becoming pale yellow.                  |           | (CL)                      |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-16  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-17  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   | 30/100mm                         | SPT           |
| 4         |          |              |                           |         |            | AS-18  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-19  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-20  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-21  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-22  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-23  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-24  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-25  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-26  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-27  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-28  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-29  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-30  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-31  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-32  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-33  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-34  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-35  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-36  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-37  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-38  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-39  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-40  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-41  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-42  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-43  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-44  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-45  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-46  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-47  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-48  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-49  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-50  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-51  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-52  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-53  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-54  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-55  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-56  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-57  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-58  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-59  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-60  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-61  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-62  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-63  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-64  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-65  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-66  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-67  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-68  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-69  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-70  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-71  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-72  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-73  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-74  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-75  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-76  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-77  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-78  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-79  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-80  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-81  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-82  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-83  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-84  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-85  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-86  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-87  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-88  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-89  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-90  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-91  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-92  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-93  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-94  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-95  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-96  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-97  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-98  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-99  |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-100 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-101 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-102 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-103 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-104 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-105 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-106 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-107 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-108 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-109 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-110 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-111 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-112 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-113 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-114 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-115 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-116 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-117 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-118 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-119 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-120 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-121 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-122 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |
|           |          |              |                           |         |            | AS-123 |                                                   |           |                           |                 |    |   |   |    |                |    |   |   |   |                                  |               |

REMARKS: Borehole coordinated measured with handheld GPS device accurate to +/-5 m. Surface level estimated from nearby survey information

LOGGED BY

REVIEWED BY

H. Menon

S. Foley



**Queensland  
Government**

## GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS  
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH02A**

Sheet 2 of 3

REFERENCE No **H13322**

|            |                                                                     |              |        |             |                           |                           |
|------------|---------------------------------------------------------------------|--------------|--------|-------------|---------------------------|---------------------------|
| PROJECT    | Centenary Bridge Upgrade                                            |              |        | COORDINATES | 494752.24 E; 6955251.64 N |                           |
| LOCATION   | 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore |              |        |             |                           |                           |
| PROJECT No | FG18012                                                             | SURFACE RL   | 18.11m | PLUNGE      | 90°                       | DATE STARTED 07/05/2019   |
| JOB No     | 498/05038                                                           | HEIGHT DATUM | m AHD  | BEARING     |                           | DATE COMPLETED 09/05/2019 |
|            |                                                                     |              |        |             |                           | GRID DATUM MGA94 56J      |
|            |                                                                     |              |        |             |                           | DRILLER All Tech Drilling |

| DEPTH (m) | R.L. (m) | AUGER CASING WASH BORING CORE DRILLING | RQD (%)<br>CORE REC % | SAMPLE | MATERIAL DESCRIPTION                                                                                                                        | LITHOLOGY<br>GROUP SYMBOL / WEATHERING | INTACT STRENGTH | DEFECT SPACING | ADDITIONAL DATA AND TEST RESULTS | SAMPLES TESTS |
|-----------|----------|----------------------------------------|-----------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------|----------------|----------------------------------|---------------|
|           |          |                                        |                       |        |                                                                                                                                             |                                        |                 |                |                                  |               |
| 7.36      |          |                                        |                       |        | ARGILLITE (DCf)<br>XW: Continued.                                                                                                           | XW                                     |                 |                |                                  |               |
| 11        |          |                                        | (40)                  |        | ARGILLITE (DCf)<br>HW: Pale green - green, fine grained, weakly foliated (10°-20°), medium strength.                                        | HW-MW                                  |                 |                |                                  |               |
| 12        | 6.11     |                                        | 100 (60)              |        | Slightly metamorphosed, trace quartz within rockmass, some XW bands.                                                                        | HW                                     |                 |                |                                  |               |
|           |          |                                        |                       |        | ARGILLITE (DCf)<br>MW: Pale green - green, fine grained, weakly to moderately foliated (20°-50°), medium strength.                          | MW                                     |                 |                |                                  |               |
| 13        |          |                                        |                       |        | Slightly metamorphosed, presence of quartz (increasing with depth).                                                                         |                                        |                 |                |                                  |               |
| 14        | 4.71     |                                        | 100 (85)              |        | ARGILLITE (DCf)<br>SA: Green - dark green, fine grained, weakly to moderately foliated (10°-50°), high strength.                            | SA                                     |                 |                |                                  |               |
| 15        |          |                                        | 100 (36)              |        | Trace quartz within rockmass, some HW bands.<br>FP/BP: 10-50° (3-5/m), Sm, Pln-Cvd, OP-TI, Fe Stn.<br>Js: 60° (1-2/m), Sm, Pln, TI, Fe Stn. | MA                                     |                 |                |                                  |               |
| 16        |          |                                        | 100 (20)              |        | From 15.9m: Becoming dark green.                                                                                                            | HA                                     |                 |                |                                  |               |
| 17        |          |                                        | 100 (45)              |        |                                                                                                                                             | MA                                     |                 |                |                                  |               |
| 18        |          |                                        |                       |        |                                                                                                                                             | SA                                     |                 |                |                                  |               |
| 19        |          |                                        | 100 (69)              |        |                                                                                                                                             | HA                                     |                 |                |                                  |               |
|           |          |                                        |                       |        |                                                                                                                                             | SA                                     |                 |                |                                  |               |
| -1.89     |          |                                        |                       |        |                                                                                                                                             |                                        |                 |                |                                  |               |

REMARKS: Borehole coordinated measured with handheld GPS device accurate to +/-5 m. Surface level estimated from nearby survey information

LOGGED BY

H. Menon

REVIEWED BY

S. Foley



**Queensland  
Government**

## GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS  
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH02A**

Sheet 3 of 3

REFERENCE No **H13322**

PROJECT Centenary Bridge Upgrade

LOCATION 27 Vidgen Lane, Kenmore, M5 Centenary Motorway, Jindalee to Kenmore COORDINATES 494752.24 E; 6955251.64 N

PROJECT No FG18012 SURFACE RL 18.11m PLUNGE 90° DATE STARTED 07/05/2019 GRID DATUM MGA94 56J

JOB No 498/05038 HEIGHT DATUM m AHD BEARING DATE COMPLETED 09/05/2019 DRILLER All Tech Drilling

| DEPTH (m) | R.L. (m) | AUGER<br>CASING<br>WASH BORING<br>CORE DRILLING | RQD<br>(%)<br>CORE<br>REC % | SAMPLE | MATERIAL DESCRIPTION                                                                                                                                                                                                                                                                 | LITHOLOGY<br>GROUP SYMBOL /<br>WEATHERING | INTACT<br>STRENGTH | DEFECT<br>SPACING | ADDITIONAL DATA<br>AND<br>TEST RESULTS | SAMPLES<br>TESTS |
|-----------|----------|-------------------------------------------------|-----------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------|-------------------|----------------------------------------|------------------|
| 21        |          |                                                 | 100<br>(66)                 |        | ARGILLITE (DCf)<br>SA: Dark green, fine grained,<br>moderately foliated (35°-50°), high to<br>very high strength, RQD: 60 - 80%.<br>Slightly metamorphosed, quartz seams<br>throughout.<br>FP/BP: 30-50° (4-5/m), Sm, Pln-Cvd, TI,<br>Cn.<br>Js: 5-20° (4-6/m), Sm, Cvd-Und, TI, Cn. |                                           |                    |                   |                                        |                  |
| 22        |          |                                                 | 100<br>(70)                 |        |                                                                                                                                                                                                                                                                                      |                                           |                    |                   |                                        |                  |
| 23        |          |                                                 | 100<br>(76)                 |        |                                                                                                                                                                                                                                                                                      |                                           |                    |                   |                                        |                  |
| 24        |          |                                                 | 100<br>(79)                 |        |                                                                                                                                                                                                                                                                                      | SA                                        |                    |                   |                                        |                  |
| 25        |          |                                                 | 100<br>(78)                 |        | From 25.0m: Joints infilled with red<br>CLAY.                                                                                                                                                                                                                                        |                                           |                    |                   |                                        |                  |
| 26        |          |                                                 | 100<br>(78)                 |        |                                                                                                                                                                                                                                                                                      |                                           |                    |                   |                                        |                  |
| 27        |          |                                                 | 100                         |        |                                                                                                                                                                                                                                                                                      |                                           |                    |                   |                                        |                  |
| 28        | -9.82    |                                                 |                             |        | Borehole completed at 27.93 m                                                                                                                                                                                                                                                        |                                           |                    |                   |                                        |                  |
| 29        |          |                                                 |                             |        |                                                                                                                                                                                                                                                                                      |                                           |                    |                   |                                        |                  |

REMARKS: Borehole coordinated measured with handheld GPS device accurate to +/- 5 m. Surface level estimated from nearby survey information

**LOGGED BY**

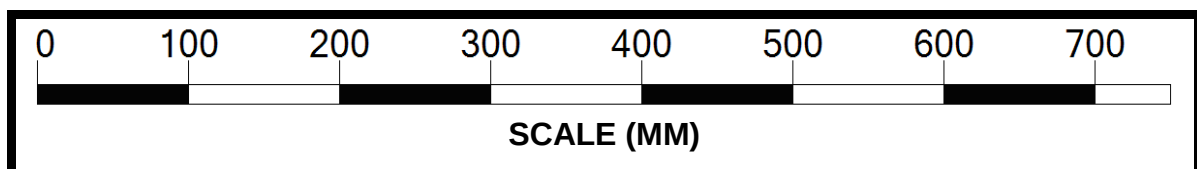
H. Menon

**REVIEWED BY**

S. Foley

**CORE PHOTO LOG**  
 DEPARTMENT OF TRANSPORT AND MAIN ROADS  
 GEOTECHNICAL SECTION

|              |                                                              |                  |            |
|--------------|--------------------------------------------------------------|------------------|------------|
| Project Name | <b>Centenary Bridge Upgrade – Geotechnical Investigation</b> |                  |            |
| Project No.  | FG18012                                                      | Date             | 07/05/2019 |
| Borehole No. | BH02A                                                        | Reference No.    | H13322     |
| Location     | 27 Vidgen Lane                                               | Start Depth (m)  | 18.11m     |
| Submitted By | H.Menon                                                      | Finish Depth (m) | -9.82m     |



**CORE PHOTO LOG**  
DEPARTMENT OF TRANSPORT AND MAIN ROADS  
GEOTECHNICAL SECTION

|              |                                                              |                  |            |
|--------------|--------------------------------------------------------------|------------------|------------|
| Project Name | <b>Centenary Bridge Upgrade – Geotechnical Investigation</b> |                  |            |
| Project No.  | FG18012                                                      | Date             | 07/05/2019 |
| Borehole No. | BH02A                                                        | Reference No.    | H13322     |
| Location     | 27 Vidgen Lane                                               | Start Depth (m)  | 18.11m     |
| Submitted By | H.Menon                                                      | Finish Depth (m) | -9.82m     |

