

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Housing and Public Works 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 and author as follows: "(c) State of Queensland (Department of Housing and Public Works) 2020, licensed under the CC BY 4.0 Licence, prepared by Arup". This licence does not apply to logos 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/>

This log has been contributed to the Queensland Geotechnical Database with the permission of Arup.

BOREHOLE RECORD

SHEET **1**
OF **4**







HOLE **BH103**

PROJECT **CAIRNS CONVENTION CENTRE**

LOCATION see Fig. 2.
GROUND LEVEL 101.5

CONTRACTOR **WALKER DRILLING**
DRILL MODEL **DB1000**
MOUNTING **TRUCK**
ANGLE **90 degrees**
BEARING **-**
DIAMETER **100mm**

LOGGED BY **BJS**
DATE/S **28 & 29 JUNE '94**

| DRILLING | | STRATA | | MATERIAL DESCRIPTION | | CONDITION | | OBSERVATIONS | |
|--------------------------------------|-----|--------|--------------|---|---|--------------------|-------------|--------------|---------------------------------|
| SAMPLE, TEST, BIT, SUPPORT ETC | R.L | DEPTH | GROUP SYMBOL | LEGEND | SOIL TYPE Colour, Plasticity, Grain Size, Minor Components | WATER/ MOISTURE | CONSISTENCY | | SOIL ORIGIN STRUCTURE, ETC |
| | AHD | m | | | | | Stiff | Hard | |
| WR | | 0.2 | GM |  | Silty GRAVEL: brown, fine to medium gravel, silt and trace of fine to medium sand. | D | | | FILL (bitumen and road base) |
| | | M | | | | | | | |
| | | 0.6 | CL |  | Silty CLAY: grey, low to medium plasticity, silt and trace of fine to coarse sand, hydrocarbon odour. | W | | | HOLOCENE MARINE SEDIMENTS |
| | | 1.0 | | | | | | | |
| | | 1.8 | SC |  | Clayey SAND: grey, fine to medium sand, low plasticity clay, some silt, abundance of calcareous fragments throughout. | | | | |
| | | 2.0 | | | | | | | |
| | | 3.0 | | | | | | | |
| U50 qp: <50 | | | | | | | | | |
| WR | | 3.9 | CL |  | Sandy CLAY: grey, medium plasticity, fine to medium sand, some silt and trace of fine to medium gravel, calcareous fragments throughout. | | | | |
| | | 4.0 | | | | | | | |
| | | 4.5 | | | | | | | |
| U50 qp: <50 | | | | | | | | | |
| WR | | 5.0 | |  | As Above: | | | | |
| | | 6.0 | | | | | | | |
| U50 qp: <50 | | | | | | | | | |
| WR | | 6.7 | SP |  | SAND: grey, fine to coarse grained, some silt and trace of low plasticity clay and fine gravel, trace of shell grit (major decrease) and some wood chips present. | | | | |
| | | 7.0 | | | | | | | |
| | | 7.5 | | | | | | | |
| SPT: 6,7,8 *N=15 | | 8.0 | | | | | | | |

NOTES

FIGURE

JCS

8151

BOREHOLE RECORD

HOLE **BH103**

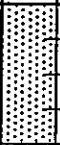





SHEET **2**
OF **4**

PROJECT **CAIRNS CONVENTION CENTRE**

LOCATION see Fig. 2.
GROUND LEVEL 101.5

CONTRACTOR **WALKER DRILLING**
DRILL MODEL **DB1000**
MOUNTING **TRUCK**
ANGLE **90 degrees**
BEARING **-**
DIAMETER **100mm**

LOGGED BY **BJS**
DATE/S **28 & 29 JUNE '94**

| DRILLING | | STRATA | | | MATERIAL DESCRIPTION | | CONDITION | | OBSERVATIONS | | | | |
|--------------------------------------|-----|--------|--------------|---|--|--------------------|-------------|----|--------------|----|----|--|---------------------------------|
| SAMPLE, TEST, BIT, SUPPORT ETC | R.L | DEPTH | GROUP SYMBOL | LEGEND | SOIL TYPE Colour, Plasticity, Grain Size, Minor Components | WATER/ MOISTURE | CONSISTENCY | | | | | SOIL ORIGIN STRUCTURE, ETC | |
| | AHD | m | | | | | VS | SL | ST | YL | MD | | OS |
| WR | | | SP |  | SAND: grey, fine to coarse grained, some silt and trace of low plasticity clay and fine gravel, very little shell content. | W | | | | | | | HOLOCENE MARINE SEDIMENTS |
| SPT: 3,3,7 *N=10 | | 8.8 | SW |  | SAND: grey, medium grained, some fine and coarse grains, high organic content (alternating bands, 50-100mm thick, of wood and sand). | | | | | | | | |
| WR | | 9.0 | | | | | | | | | | | |
| | | 10.0 | | | | | | | | | | | |
| | | 10.5 | | | | | | | | | | | |
| SPT: 3,6,8 *N=14 | | 11.0 | | | | | | | | | | | |
| WR | | 11.5 | CL |  | CLAY: grey, medium to high plasticity, some fine to coarse sand and fine gravel, thinly laminated (<1mm), thin band of organic material (10mm) at 12.3m. | | | | | | | | |
| | | 12.0 | | | | | | | | | | | |
| SPT: 1,1,2 *N=3 | | 12.2 | | | | | | | | | | | |
| WR | | 12.8 | CH |  | CLAY: light grey, high plasticity, trace of fine to coarse sand and fine gravel, increase in plasticity, thinly laminated. | | | | | | | | |
| | | 13.0 | | | | | | | | | | | |
| | | 13.4 | SC |  | Sandy CLAY: mottled grey and brown, medium plasticity, fine sand and some medium sand, some shell grit. | | | | | | | | |
| U50 -no recovery | | 13.5 | | | | | | | | | | | |
| | | 13.8 | CH |  | Silty CLAY: mottled brown and grey, high plasticity clay, some fine sand. | M | | | | | | | |
| WR | | 14.0 | | | | | | | | | | | |
| | | 15.0 | | | | | | | | | | | |
| U50 qp: 300 | | | | | As Above: | | | | | | | CONSOLIDATED PLEISTOCENE SEDIMENTS | |
| WR | | 16.0 | | | | | | | | | | | |

NOTES

FIGURE

JOB

8151

BOREHOLE RECORD

SHEET **3**
OF **4**

| | | | | | | | |
|--------------------------|--|--|--|-------------------------|--|--|--|
| PROJECT | | | | HOLE BH103 | | | |
| CAIRNS CONVENTION CENTRE | | | | | | | |
| CONTRACTOR | | | | LOCATION see Fig. 2. | | | |
| RILL MODEL | | | | GROUND LEVEL 101.5 | | | |
| MOUNTING | | | | LOGGED BY BJS | | | |
| WALKER DRILLING | | | | DATE/S 28 & 29 JUNE '94 | | | |
| DB1000 | | | | ANGLE 90 degrees | | | |
| TRUCK | | | | BEARING - | | | |
| | | | | DIAMETER 100mm | | | |

| DRILLING | | STRATA | | | MATERIAL DESCRIPTION | | CONDITION | | | OBSERVATIONS |
|-------------------------------------|-----|--------|--------------|--------|--|--------------------|-------------|--|--|--|
| SAMPLE, TEST, IT, SUPPORT ETC | R.L | DEPTH | GROUP SYMBOL | LEGEND | SOIL TYPE Colour, Plasticity, Grain Size, Minor Components | WATER/ MOISTURE | CONSISTENCY | | | SOIL ORIGIN STRUCTURE, ETC |
| | AHD | m | | | | | | | | |
| | | | | | | | | | | |
| WR | | | CH | | Silty CLAY: mottled brown and grey, high plasticity, some fine sand. | M | | | | CONSOLIDATED PLEISTOCENE SEDIMENTS |
| | | 17.0 | | | | | | | | |
| | | | | | | | | | | |
| | | 18.0 | | | | | | | | |
| PT: 3,3,9 *N=12 | | | CH | | CLAY: brown and grey, high plasticity, some silt and fine sand, some friable quartz content, thinly laminated. | | | | | |
| WR | | | | | | | | | | |
| | | 19.0 | | | | | | | | |
| | | | | | | | | | | |
| | | 20.0 | | | | | | | | |
| | | | | | | | | | | |
| | | 21.0 | | | CLAY: brown and grey, high plasticity, some silt, thinly laminated. | | | | | |
| PT: 4,4,7 *N=11 | | | | | | | | | | |
| WR | | | | | | | | | | |
| | | 22.0 | | | | | | | | |
| | | | | | | | | | | |
| | | 23.0 | | | | | | | | |
| | | | | | | | | | | |
| | | 24.0 | | | | | | | | |

FIGURE JOB

BOREHOLE RECORD

SHEET **4**
OF **4**

PROJECT **CAIRNS CONVENTION CENTRE**

CONTRACTOR **WALKER DRILLING**

RILL MODEL **DB1000**

OUNTING **TRUCK**

ANGLE **90 degrees**

BEARING **-**

DIAMETER **100mm**



HOLE **BH103**

LOCATION **see Fig. 2.**

GROUND LEVEL **101.5**

LOGGED BY **BJS**

DATE/S **28 & 29 JUNE '94**

| DRILLING | | STRATA | | | MATERIAL DESCRIPTION | | CONDITION | | | | | OBSERVATIONS | |
|------------------------------|-----|--------|--------------|--|---|----------------|-------------|----|----|----|----|--|----|
| SAMPLE, TEST, T, SUPPORT ETC | R.L | DEPTH | GROUP SYMBOL | LEGEND | SOIL TYPE Colour, Plasticity, Grain Size, Minor Components | WATER/MOISTURE | CONSISTENCY | | | | | SOIL ORIGIN STRUCTURE, ETC | |
| | AHD | m | | | | | VS | SL | ST | HS | ND | | SS |
| | | | | | | | | | | | | | |
| SPT: 5,8,9 *N=17 | | | CH |  | CLAY: grey, high plasticity, some silt and fine sand content. | D | | | | | | CONSOLIDATEE PLEISTOCENE SEDIMENTS | |
| | WR | 25.0 | | | | | | | | | | | |
| | | 25.5 | | | | | | | | | | | |
| | | 26.0 | SP |  | SAND: grey, fine to coarse grained, some medium plasticity clay and fine gravel (predominantly quartz composition). | W | | | | | | | |
| | | 27.0 | | | As Above: | | | | | | | | |
| SPT: 4,10,14 N=24 | | | | | | | | | | | | | |
| | WR | 28.0 | | | | | | | | | | | |
| | | 29.0 | | | | | | | | | | | |
| | | 30.0 | | | | | | | | | | | |
| | | | | | End BH103 at depth 30.0m. | | | | | | | | |
| | | 31.0 | | | | | | | | | | | |
| | | 32.0 | | | | | | | | | | | |

Hole caved while pulling rods out at 30.0m, therefore BH103 was abandoned without an SPT at that depth.

2. Interbedded lens of clayey sand from 25.5m.

FIGURE

JOB

8151