

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](https://creativecommons.org/licenses/by/4.0/) (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

BH104







OF 4

PROJECT CAIRNS CONVENTION CENTRE

HOLE LOCATION see Fig. 2.
GROUND LEVEL 101.0

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

LOGGED BY BJS
DATE/S 29 & 30 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					Very Soft	Soft	
AD-T		0.5	SC		Clayey Silty SAND: brown, fine to coarse sand, low plasticity clay and silt, some fine to medium gravel.	D			FILL
		1.0	CL		Silty Sandy CLAY: light grey, medium plasticity, silt and fine sand, some medium to coarse sand and fine gravel.	M			HOLOCENE MARINE SEDIMENTS
		1.2							
		1.5	CL		Silty CLAY: dark grey, low plasticity, silt and some fine sand, some organic material.				
WR(C)		2.0							
		3.0							
U50 qp: <50									
WR(C)		3.8							
		4.0	CL		CLAY: grey, low to medium plasticity, some silt and fine sand, trace of calcareous material (shell grit).				
		4.5							
U50 qp: <50		5.0							
WR(C)									
		6.0			CLAY: dark grey, low plasticity, some silt and a trace of fine sand and shell grit.				
U50 qp: <50									
WR(C)		7.0							
		7.5	CL		Silty CLAY: grey, low plasticity, silt and some fine sand, increase in shell content.				
U50 qp: 50-60		8.0	CL		CLAY: dark grey, medium plasticity, some silt and trace of fine sand.				

OTES
1. Rotary auger used from the surface to 1.5m depth. Washboring continued for remainder of BH104.

FIGURE

JOB

8151

BOREHOLE RECORD

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





HOLE **BH104**

PROJECT **CAIRNS CONVENTION CENTRE**

LOCATION **see Fig. 2.**
GROUND LEVEL **101.0**

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

LOGGED BY **BJS**
DATE/S **29 & 30 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	ST	
WR(C)			CL		CLAY: dark grey, medium plasticity, some silt and trace of fine sand.	M			HOLOCENE MARINE SEDIMENTS
		9.0	CL						
U50 :40-60			CL		Sandy CLAY: grey, low to medium plasticity, fine grained sand and some silt.				CONSOLIDATED PLEISTOCENE SEDIMENTS
WR(C)		9.8	CH		Silty Sandy CLAY: mottled brown and grey, high plasticity, silt and fine sand, trace of medium to coarse sand and fine gravel.				
		10.0							
		10.5							
U50 no recovery		11.0							
WR(C)									
		12.0			As Above: no fine gravel.				
PT:6,7,10 *N=17									
WR(C)		13.0							
		13.4			As Above: a lens of material containing medium to coarse gravel (<30mm).	D			
		14.0				M			
		15.0			Sandy CLAY: grey and brown, high plasticity, fine to medium sand, some coarse sand and fine gravel.				
T:7,13,13 *N=26									
WR(C)		16.0							

NOTES
1. No sample recovered from U50 test at 10.5m. Attempt to recover material was unsuccessful.

FIGURE
JOB
8151

BOREHOLE RECORD

SHEET **3**

OF **4**

PROJECT

CAIRNS CONVENTION CENTRE

HOLE

BH104

LOCATION see Fig. 2.
GROUND LEVEL 101.0

CONTRACTOR

WALKER DRILLING

ANGLE

90 degrees

DRILL MODEL

DB1000

BEARING

DIAMETER

100mm

MOUNTING

TRUCK

LOGGED BY

BJS

DATE/S

29 & 30 JUNE '9.

100mm		29 & 30 JUNE '9							
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					Very Soft	Soft	
WR(C)			CH		Sandy CLAY: grey and brown, high plasticity, fine to medium sand, some coarse sand.	D - M			CONSOLIDATE PLEISTOCENE SEDIMENTS
		17.0			As Above: decrease in sand content.				
		18.0							
PT:7,10,12 *N=22									
WR(C)									
		19.0							
		20.0							
		21.0							
T:7,13,15 *N=28					Sandy CLAY: mottled grey and brown with veins of red, high plasticity, fine sand and some silt and medium to coarse sand.				
		22.0							
		23.0							
		23.1							
WR(C)			CL		Sandy CLAY: mottled grey, brown and red, medium to high plasticity, fine sand and some medium sand.	M			
		24.0							

FIGURE

JOB

8151

BOREHOLE RECORD

SHEET 4

HOLE BH104

OF 4

PROJECT

CAIRNS CONVENTION CENTRE

LOCATION

see Fig. 2.

GROUND LEVEL

101.0

CONTRACTOR

WALKER DRILLING

ANGLE

90 degrees

DRILL MODEL

DB1000

BEARING

-

MOUNTING

TRUCK

DIAMETER

100mm

LOGGED BY

BJS

DATE/S

29 & 30 JUNE '9.

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	HS	JD		OS
SPT:6,8,12 *N=20			CL		Sandy CLAY: mottled grey, brown and red, medium to high plasticity, fine sand and trace of medium to coarse sand.	M							CONSOLIDATED PLEISTOCENE SEDIMENTS
WR(C)		25.0											
		26.0											
		26.5											
		27.0	SP		SAND: grey and yellow-brown, fine to coarse grained, some fine gravel and a trace of low plasticity clay, sand mostly of quartz composition.								
SPT:15,15,16 *N=31													
WR(C)		28.0											
		29.0											
		30.0											
					End BH104 at depth 30.0m.								
		31.0											
		32.0											

NOTES

1. The sand unit encountered at 26.5m changed colour from light grey to predominantly yellow-brown at 27.15m.
2. After drilling to 30.0m, the hole collapsed to 27.0m when the rods were pulled to the surface, therefore no SPT was performed at that depth.

FIGURE

JOB

8151