

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 and author as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence, prepared by Jacobs*". 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/>

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



BOREHOLE ENGINEERING LOG

HOLE NO : N071B_BH06

CLIENT : TRANSPORT AND MAIN ROADS	POSITION : E: 358648, N: 8137302 (56 MGA94)	PAGE : 1 OF 1
PROJECT : TNRP	SURFACE ELEVATION : 337.8 (AHD)	DATE DRILLED : 7/24/13 TO 7/24/13
JOB NO : CB27000.F687	DIP / AZIMUTH : 90°	LOGGED BY : JP
LOCATION : KENNEDY HWY (CAIRNS - MAREEBA)		CHECKED BY : AJ

DRILLING					MATERIAL							
DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	STRUCTURE & Other Observations
AD/T		F	NOT OBSERVED		337.8	0.0		0.05m	ASPHALT: (0.05 m).			FILL
								GP	SANDY GRAVEL (GP): Grey, fine to medium gravel, angular, fine to coarse grained sand, with fines.			
					337.3	0.5		CI	SILTY CLAY (CI): Orange brown, medium plasticity, with fine grained sand.	D	St	RESIDUAL SOIL
		H	1.00m SPT 18, 32/140mm HB N=R		336.8	1.0			QUARTZITE: Orange brown, extremely weathered, extremely low to low strength, appears as CLAYEY GRAVEL (CG), fine to coarse grained angular gravel, comprising of quartzite.			EXTREMELY TO HIGHLY WEATHERED ROCK
		VH	1.29m						From 1.30 m becoming highly weathered, low to medium strength Practical refusal on estimated high strength material End of Borehole			
					336.3	1.5						
					335.8	2.0						
					335.3	2.5						
					334.8	3.0						
					334.3	3.5						
					333.8	4.0						

DRILLING			SAMPLES & FIELD TESTS			DENSITY (SPT N-value)		CONSISTENCY (Su) {N-value}					
HA	Hand Auger	RR	Rock Rolling	DS	Disturbed Sample	SPT	Standard Penetration Test	VL	Very Loose	0 - 4	VS	Very Soft	< 12 kPa {0-2}
AS	Auger Screw	AT	Air Track	ES	Env Soil Sample	U	Undisturbed Tube Sample	L	Loose	4 - 10	S	Soft	12 - 25 {2-4}
AD/T	Auger Drill TC-bit	HQ	HQ Coring	EW	Env Water Sample	W	Water Sample	MD	Medium Dense	10 - 30	F	Firm	25 - 50 {4-8}
AD/V	Auger Drill V-bit	NQ	NQ Coring	HP	Hand Penetrometer	MOISTURE CONDITION		D	Dense	30 - 50	St	Stiff	50 - 100 {8-15}
WB	Washbore	NMLC	NMLC Coring	HV	Hand Vane Shear	D = Dry M = Moist W = Wet		VD	Very Dense	50 - 100	VSt	Very Stiff	100 - 200 {15-30}
DRILLING PENETRATION			N SPT blows per 300mm			CO	Compact	>50/150mm	H	Hard	> 200 kPa {>30}		
VE	Very Easy	F	Firm	VH	Very Hard	HW SPT penetration by hammer weight							
E	Easy	H	Hard	RW SPT penetration by rod weight									
GROUNDWATER SYMBOLS													
			= Water level (static)										
			= Water level (during drilling)										