

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://qgd.org.au/>

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO : BH-A15

CLIENT : QTMR/Aurecon

POSITION : E: 492023, N: 7037653 (56 MGA94)

PAGE : 1 OF 2

PROJECT : Sunshine Coast Landslips

SURFACE ELEVATION :

DATE DRILLED : 8/8/13 to 8/8/13

JOB NO : QE09860.810

DIP / AZIMUTH : 90°

LOGGED BY : LN

LOCATION : R494 Approx CH 6668

CONTRACTOR : Drillsure

CHECKED BY : DWL

DRILLING					MATERIAL							
PROGRESS		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
DRILLING & CASING	WATER											
						0.0			0.05m ASPHALT: 50 mm.			
				0.50m D-1		0.5		SP	GRAVELLY SAND (SP): Red brown, fine to coarse grained sand, fine to medium gravel, trace silt.		D	
									0.50m BASALT: Grey brown, extremely to highly weathered (recovered as Sandy GRAVEL).		M	
				1.50m D-2		1.5						
									1.80m - becoming grey			
						2.0						
				2.70m D-3		2.5						
				3.00m D-4		3.0			3.00m - becoming red, moderate to slightly weathered		D	
						3.5						
						4.0						
				4.50m D-5		4.5			4.50m - becoming dark brown			
						5.0			5.00m			

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO : BH-A15

CLIENT : QTMR/Aurecon

POSITION : E: 492023, N: 7037653 (56 MGA94)

PAGE : 2 OF 2

PROJECT : Sunshine Coast Landslips

SURFACE ELEVATION :

DATE DRILLED : 8/8/13 to 8/8/13

JOB NO : QE09860.810


DIP / AZIMUTH : 90°

LOGGED BY : LN

LOCATION : R494 Approx CH 6668

CONTRACTOR : Drillsure

CHECKED BY : DWL

DRILLING					MATERIAL							
PROGRESS		WATER	PENETRATION	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
DRILLING & CASING												
				5.50m D-6		5.0			BASALT: Grey brown, extremely to highly weathered (recovered as Sandy GRAVEL). (continued) - increased fines content, increased consistency of rockmass (>RQD)			
					5.5							
					6.0							
					6.5							
					7.0			7.00m	- becoming red, moderately to slightly weathered	D		
					7.5							
					8.0							
					8.5			8.50m	- dark brown, slightly weathered (recovered as fine, trace medium gravel, elongated, angular, fresh faces, increased fine percentage)			
				9.00m D-7		9.0		9.00m	BH-A15 Terminated @ 9.00mbgl, termination depth			
						9.5						
						10.0						

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