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# BOREHOLE ENGINEERING LOG

BOREHOLE NO : BH-A07

CLIENT : QTMR/Aurecon	POSITION : E: 492015, N: 7037662 (56 MGA94)	PAGE : 1 OF 2
PROJECT : Sunshine Coast Landslips	SURFACE ELEVATION :	DATE DRILLED : 5/8/13 to 5/8/13
JOB NO : QE09860.810	DIP / AZIMUTH : 90°	LOGGED BY : LN
LOCATION : R494 Approx CH 6683	CONTRACTOR : Drillsure	CHECKED BY : DWL

DRILLING					MATERIAL						
PROGRESS	DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	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				0.0			0.04m ASPHALT			
				0.80m D-1	0.04m		SP	GRAVELLY SAND (FILL) (SP): Brown, fine to coarse grained sand, fine to medium gravel, trace silt.	M	D	
					0.5			BASALT: Brown, extremely to highly weathered (recovered as Sandy GRAVEL).			
					1.0			- high percentage of gravel with cuttings, up to 63mm diameter			
				2.00m D-2	2.00m			- grey brown, with increased high plasticity fines, highly weathered (recovered as Sandy GRAVEL)	M		
					2.5						
					3.0						
					3.5						
					3.60m			- yellow brown, increased gravel content			
					3.75m			- red brown, moderately weathered (recovered as Sandy GRAVEL)			
				4.00m D-3	4.0					D	
					4.5						
					5.0						

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



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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					5.0			5.20m	BASALT: Brown, extremely to highly weathered (recovered as Sandy GRAVEL). <i>(continued)</i>	D		
									BHA7 Terminated @ 5.2mbgl, TC drill bit refusal			
					5.5							
					6.0							
					6.5							
					7.0							
					7.5							
					8.0							
					8.5							
					9.0							
					9.5							
					10.0							

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