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BOREHOLE ENGINEERING LOG

BOREHOLE NO : BH-A04

CLIENT : QTMR/Aurecon	POSITION : E: 492038, N: 7037611 (56 MGA94)	PAGE : 1 OF 2
PROJECT : Sunshine Coast Landslips	SURFACE ELEVATION :	DATE DRILLED : 6/8/13 to 6/8/13
JOB NO : QE09860.810	DIP / AZIMUTH : 90°	LOGGED BY : LN
LOCATION : R494 Approx CH 6628	CONTRACTOR : Drillsure	CHECKED BY : DWL

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					0.0	0.05		SP	ASHPHALTT GRAVELLY SAND (FILL) (SP): Orange-brown, fine to coarse grained sand, fine to medium gravel, trace fines.	D	D / VD	
					0.5	0.50			BASALT: Red brown, extremely to highly weathered (recovered as Sandy GRAVEL). - becoming grey - becoming dark red-brown, some high plasticity clay - colour now red - with some coarse gravel			0.50: More difficult to drill
					2.5	2.50			- brown, moderately weathered (recovered as fine to coarse grained sand, fine to medium rounded gravel, trace clay)	M		2.50: Easier to drill
					3.5	3.50			- brown, slightly weathered (recovered as fine to coarse grained sand, fine to medium gravel, trace silt)			3.50: Slightly harder to drill

DRILLING 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				SAMPLES & FIELD TESTS 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				DENSITY (SPT N-value) 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		CONSISTENCY (Su) {N-value} 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}	
GROUNDWATER SYMBOLS = Water level (static) = Water level (during drilling)				MOISTURE CONDITION D = Dry M = Moist W = Wet							



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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
					5.0				BASALT: Red brown, extremely to highly weathered (recovered as Sandy GRAVEL). (continued)			
					5.5					M		
					6.0				6.00m - pale brown, slightly weathered (recovered as fine platy gravel, fresh faces, high fines (30%) content)	D / M		6.00: Increasingly difficult to drill
					6.20m				BH-A04 Terminated @ 6.2mbgl, TC drill bit refusal			
					6.5							
					7.0							
					7.5							
					8.0							
					8.5							
					9.0							
					9.5							
					10.0							

DRILLING 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)				SAMPLES & FIELD TESTS 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				DENSITY (SPT N-value) 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		CONSISTENCY (Su) {N-value} VS Very Soft < 12 kPa {0-2} S Soft 12 - 25 {2-4} MD Medium Dense 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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