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CLIENT : QTMR/Aurecon

POSITION : E: 492022, N: 7037649 (56 MGA94)

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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 6668

CONTRACTOR : Drillsure

CHECKED BY : DWL

DRILLING					MATERIAL							
PROGRESS		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											
AD/T												
						0.0			0.04m ASHPALT	M	MD / D	
						0.5			0.55m GRAVELLY SAND (FILL): Red-brown, fine to coarse grained sand, fine to medium angular gravel, trace silt.			
						1.0			BASALT: Dark red-brown, extremely weathered (recovered as Sandy GRAVEL, fine to medium grained, sub-rounded to sub-angular, little to no fines recovered).			
1.50m D-1						1.00m - becoming brown in colour, extremely to highly weathered						
						2.5			2.50m - red brown, red, moderately weathered, lenses of increased fines content (likely infilled seams within rockmass) (Recovered as Sandy GRAVEL fine to medium, trace coarse gravel, sub-rounded to subangular)	M		
2.80m D-2						3.60m - grey brown, moderately to slightly weathered (recovered as Sandy GRAVEL)						
						4.5						
4.50m D-3						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	MOISTURE CONDITION		VD	Very Dense	50 - 100	VSt	Very Stiff	100 - 200 {15-30}
DRILLING PENETRATION				HV	Hand Vane Shear	D = Dry M = Moist W = Wet		CO	Compact	>50/150mm	H	Hard	> 200 kPa {>30}
VE	Very Easy	F	Firm	(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-A06

CLIENT : QTMR/Aurecon

POSITION : E: 492022, N: 7037649 (56 MGA94)

PAGE : 2 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 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											
AD/T						5.0			BASALT: Dark red-brown, extremely weathered (recovered as Sandy GRAVEL, fine to medium grained, sub-rounded to sub-angular, little to no fines recovered). (<i>continued</i>) - red, moderately weathered with high plasticity clay fines (likely extremely weathered lense within rockmass) (Recovered as Sandy GRAVEL)			
					5.5							
					6.0	6.00m		- grey brown, moderately to slightly weathered				
					6.5							
					7.0	7.00m		- with increased high plasticity clay fines (likely increased fracture zone)	M			
					7.5							
					8.0							
					8.5							
					9.0	8.90m 9.00m		- dark brown, slightly weathered (recovered as fine, trace medium gravel, elongated, angular, fresh faces, increased fine percentage) BH-A06 Terminated @ 9.0mbgl, TC drill bit refusal				
					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}
F Firm 25 - 50 {4-8}
St Stiff 50 - 100 {8-15}
VSt Very Stiff 100 - 200 {15-30}
H Hard > 200 kPa {>30}

CORE PHOTO LOG

SINCLAIR KNIGHT MERZ

32 Cordelia Street, SOUTH BRISBANE Qld 4101
Phone 07 3026 7553



Project Name	Sunshine Coast		
Project No	QE06710.810	Date	09/10/2013
Borehole No	BH-A06	No. of Boxes	N/A
Easting		Start Depth (m)	2.80m
Northing		Finish Depth (m)	6.50m
Driller	Drillsure	Core Size	N/A
Remarks	Tungsten Auger samples	Submitted By	A Stratford

