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File: QE09860.810 BH-A13 Page 1 OF 3

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CLIENT : QTMR/Aurecon	MGA94) PAGE : 2 OF 3									
PROJECT : Sunshine Coast Landslips	SURFACE ELEVATION :	DATE DRILLED : 8/8/13 to 8/8/13								
JOB NO : QE09860.810										
DRILLING	MA									
HLLING ASING ASING ASING ASING AETRATION MPLES & LD TESTS LLD TESTS RL (m) RL (m)	CONTROL MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Charac Secondary and Minor Components	cteristic								
Image: Subscription of the second o	O Material Description Soil Type, Colour, Plasticity or Particle Charac Secondary and Minor Components BASALT: Dark red-brown, extremely weath (recovered as Sandy GRAVEL), fine to me grained, sub-rounded to sub-angular, little fines recovered. (continued) 6.00m	Lefe Lefe STRUCTURE & Other Observations nered dium to no VD								
DRILLING AS Auger Screw HQ HQ Coring AS Auger Screw HQ HQ Coring AD/T Auger Drill V-bit PQ PQ 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)	Junct Interface SAMPLES & FIELD TESTS D Disturbed Sample SPT Standard Penetration Test ES EN Soil Sample U Undisturbed Tube Sample EW Env Soil Sample U Undisturbed Tube Sample HP Hand Penetrometer MOISTURE CONDITION HV Hand Vane Shear D = Dry M = Moist 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) CONSISTENCY (Su) {N-value} VL Very Loose 0 - 4 VS Very Soft <12 kPa								

BOREHOLE ENGINEERING LOG

CIMND

BRISBANE_OFFICE_LIBRARY_CURRENT.GLB Log BOREHOLE QE09860.810_R494_CH6.6_130813_V2.GPJ <<DrawingFile>> 02/10/2013 17:25

File: QE09860.810 BH-A13 Page 2 OF 3

BOREHOLE NO : BH-A13

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	SKM CORED BOREHOLE ENGINEERING LOG BOREHOLE NO : BH-A13																							
Ī	CLIENT : QTMR/Aurecon POSITION : E: 492019, N: 7037653 (56 MGA94) PAGE : 3 OF 3																							
4	PRO	DJECT : Sunshine Coast Landslips SURFACE ELEVATION : DATE DRILLED :							8/8/13 to 8/8	3/13														
ŀ	JOE	B NO : QE09860.810 DIP / AZIMUTH : 90° LOGGED BY : L																						
ľ	DRILLING																							
┢										ESTIMATED STRENGTH				DEF	ECT	-		MENTS MENTS						
	DRILLING	WATER	TCR/RQD	AMPLES &	RL (m)	ROC C C C C C C C C C C C C C C C C C C C			CTYPE : Colour, Grain size, Structure , fabric, mineral composition, hardness ation, cementation, etc as applicable)		Weathering	is(50) ●-Axial O-Diametral			H 10	SPACING (mm)			Description of defects, observations a	of joints, seams, s, additional s and comments	INSTALLAT DETAIL	10N -		
u.E. CE09860.810_R494_CH6.8_130813_V2.6PJ < <drawingfile>> 02/10/2013 17:15</drawingfile>		Run 1	100% 48% RQD 7.00 100% RQD 8.50	C C C				START COR BASALT: pak subvertical and - with minor c - dark grey, h 8.30m - pale grey, s BHA13 Term	ING AT 6.00m e grey, fine graine d subhorizontal jo lay infills of defec	ts	high strengt	1, with	SW SW								JT 20° UN 3 JT 45° PR 5 JT 45° PR 6 JT 50° PR 6 JT 60° UN CS 60° JT 45° UN 3 JT 20° PR 5 JT 20° PR 5 JT 35° UN JT 35° UN JT 35° UN JT 35° Clay JT 20° PR 5 JT 20° PR 5 JT 35° UN JT 35° UN JT 35° UN JT 35° UN	S S S S S S S S S S S S S S S S S S S		
IBRARY_CURRENT.GLB Log CORED BORE	NN	ALC N Q N T		Coring ring % core	RILL	-9.5 - - ING	HQ I PQ F rered	HQ Coring PQ Coring	D Disturb W Water S SPT SPT Sa U Undistu	SAMPLES ed Sample ample imple rbed Tube Sa	& FIELD TE ES Env EW Env ample	STS Soil Sample Water Sample	e C F	S Cru Z Cru B Dri Z Fra	I I I Dushec	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	T AE m Cl e St ne Vf	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	 VIAT an ting n eer		IS Cu Curved R Irregular 'R Planar T Stepped	ROCK STREN 0-0.03 E 0.03-0.1 V 0.1-0.3 L 0.3-1.0 N 1-0.3 0 E	GTH (Is50 M xtremely Low ery Low ow ledium ich	IPa)
BRISBANE_OFFICE_LI	RQD % core run > 100mm long (rock fraction only measured) GROUNDWATER SYMBOLS ■ Water level (static)					(d) .S 1)	PHOTOGRAPH	HS	YES	NO		/S Weathered Seam F Joint PO S Infilled Seam RF Z Shear Zone S N Vein SL				l DL Polished F Rough Smooth L Slickenside			d	3.0-10 V	ery High			

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File: QE09860.810 BH-A13 3 OF 3



SK M

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-A13	No. of Boxes	1
Easting		Start Depth (m)	6.50m
Northing		Finish Depth (m)	8.50m
Driller	Drillsure	Core Size	N/A
Remarks	Tungsten Auger samples	Submitted By	A Stratford

