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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No    BH103     
SHEET    1    of    3     
REFERENCE No    12050   

PROJECT    Mackay Ring Road Geotechnical Investigation - Stage 1     
LOCATION    Schmidtke's Road Overpass Abutment A; CH: 3825m;    COORDINATES    720722.8 E; 7656197.4 N     
PROJECT No    FG6184    SURFACE R.L.    11.78m    PLUNGE            DATE STARTED    17/9/14    GRID DATUM    GDA 94 /MGA Zone 55     
JOB No                    HEIGHT DATUM    AHD    BEARING                    DATE COMPLETED    18/9/14    DRILLER    Saxon Drilling   

DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH											DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS				
								USC	WEATHERING							STRENGTH										
0	11.78							EH	VH	H	M	J	VL	EL	EC	VC	W	VW	WW	EW						
0	11.78					<b>Silty CLAY (ALLUVIUM)</b> Dark brown, moist, stiff. High plasticity.																				
1					A		(CH)																	3,3,5 N=8	SPT	
1.80	9.98					<b>SAND (ALLUVIUM)</b> Brown, moist, loose. Fine to medium grained.																				
2					B		(SP)																	4,3,5 N=8	SPT	
3					C	3.00m: Becoming fine grained Silty SAND.																		3,4,5 N=9	SPT	
3.90	7.88					<b>Sandy Silty CLAY (ALLUVIUM)</b> Pale brown, moist, firm. High plasticity.																				
4					D		(CH)																	3,3,4 N=7	SPT	
4.80	6.98					<b>Silty SAND (ALLUVIUM)</b> Pale brown and grey, moist, medium dense. Fine grained.																				
5					E		(SM)																	3,5,6 N=11	SPT	
5.70	6.08					<b>Silty CLAY (ALLUVIUM)</b> Pale grey and brown, moist, very stiff. High plasticity.																				
6					F		(CH)																			
7					G																				7,12,15 N=27	SPT
7.80	3.98					<b>Clayey SILT (ALLUVIUM)</b> Pale grey-brown, dry to moist, hard. High plasticity.																				
8					H		(MH)																			
8.70	3.08					<b>Silty SAND (ALLUVIUM)</b> Pale grey and orange, moist, dense. Medium grained.																				
9					J		(SM)																			
10.10	1.78																									

REMARKS    Kgwu - Wundaru Granodiorite;   

LOGGED BY  
**ME**

**ENGINEERING  
BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No   BH103    
SHEET   2   of   3    
REFERENCE No   12050  

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1  
LOCATION Schmidke's Road Overpass Abutment A; CH: 3825m; COORDINATES 720722.8 E; 7656197.4 N  
PROJECT No FG6184 SURFACE R.L. 11.78m PLUNGE \_\_\_\_\_ DATE STARTED 17/9/14 GRID DATUM GDA 94 /MGA Zone 55  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 18/9/14 DRILLER Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD ( ) %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING											GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS				
								USC	EH	VH	H	M	J	VL	EL	EC	VC	WC				W	WW	EW	
10	1.78				K	<b>Silty CLAY (ALLUVIUM)</b> Pale grey, moist, hard.	(CH)																	10,22,30/110	SPT
10.70	1.08				L	<b>Clayey SAND (ALLUVIUM)</b> Pale grey and orange-brown, moist, medium dense to very dense. Fine to medium grained sand. Trace fine gravel.																		10,15,16 N=31	SPT
12					M		(SC)																	11,13,15 N=28	SPT
13					N																			13,19,30/145	SPT
13.90	-2.12				P	<b>Silty CLAY (ALLUVIUM)</b> Pale grey and orange, moist, very stiff. High plasticity. Trace fine grained sand.	(CH)																	8,11,13 N=24	SPT
15					Q																			8,11,14 N=25	SPT
15.80	-4.02				R	<b>Sandy Silty CLAY (RESIDUAL)</b> Pale brown and grey, moist, very stiff to hard. High plasticity. Medium to coarse grained.																		11,15,13 N=28	SPT
17					S		(CH)																	12,18,30/145	SPT
18					T																			10,16,19 N=35	SPT
18.70	-6.92				U	<b>GRANODIORITE (Kgwu)</b> XW: Pale grey-brown, medium to coarse grained, extremely low strength.	+																	22,30/120	SPT
20	-8.22																								

TMIR JAN 15.GLB Log\_A\_ENGINERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gInt Add-In 04/09/2015 10:49

REMARKS Kgwu - Wundaru Granodiorite;

LOGGED BY  
**ME**



# ENGINEERING BOREHOLE LOG

BOREHOLE No	BH103
SHEET	3 of 3
REFERENCE No	12050

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1  
 LOCATION Schmidtkes Road Overpass Abutment A; CH: 3825m; COORDINATES 720722.8 E; 7656197.4 N  
 PROJECT No FG6184 SURFACE R.L. 11.78m PLUNGE DATE STARTED 17/9/14 GRID DATUM GDA 94 /MGA Zone 55  
 JOB No HEIGHT DATUM AHD BEARING DATE COMPLETED 18/9/14 DRILLER Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING											DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS							
									EH		EV		H		J		L		VL					EC	VC	C	W	VW	EW	
									+	-	+	-	+	-	+	-	+	-	+											-
20	-8.22				V	<b>GRANODIORITE (Kgwu)</b> HW: Pale brown speckled black, medium to coarse grained, extremely low to very low strength.	+																	30/110	SPT					
21			(0)		W		+																	21,30/75	SPT					
22			100 (0)				+	HW																q <sub>v</sub> =325kPa;	UCS					
23			100 (0)				+																							
24			100 (0)				+																							
24.30	-12.52		100				+																							
						Borehole terminated at 24.3m.																								
25																														
26																														
27																														
28																														
29																														
30																														

REMARKS Kgwu - Wundaru Granodiorite;

LOGGED BY  
**ME**

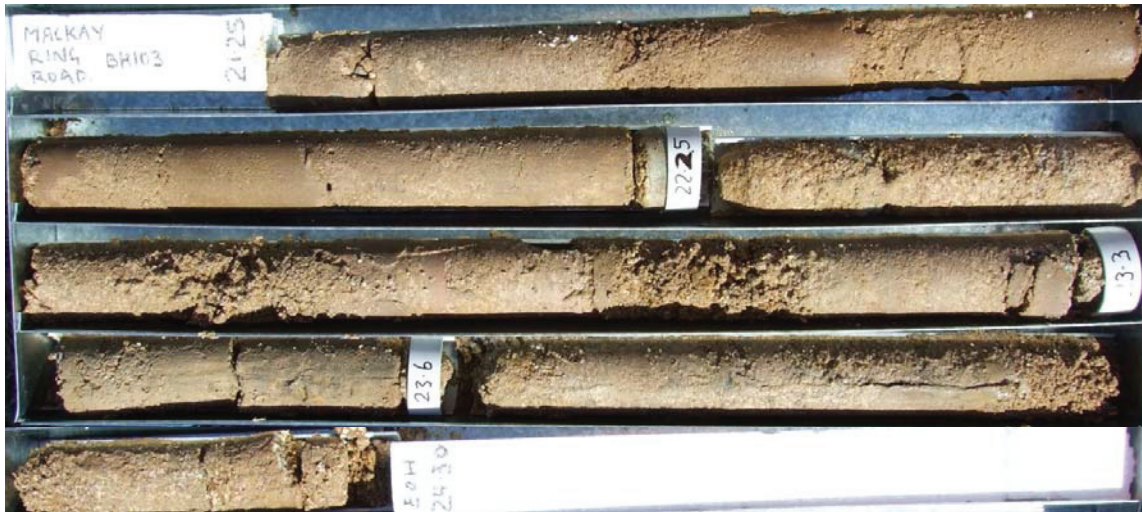
**CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT & MAIN ROADS  
 Geotechnical Branch  
 35 Butterfield Street, HERSTON Qld 4006  
 Phone 07 3066 3336



Department of  
 Transport and Main Roads

Project Name	<b>Mackay – Ring Road</b>		
Project No	FG6184	Date	17/09/14
Borehole No	BH 103	TMR H No	12050
Location	Schmidtke's Road Overpass	Start Depth (m)	21.25
Detail	Abutment A	Finish Depth (m)	24.3
Chainage	<b>3825</b>	Submitted By	M.Ensor
Remarks			



SCALE 1:5