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# **Queensland** Government

### **GEOTECHNICAL BOREHOLE LOG**

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

FINAL 18/03/2016

**BH267** BOREHOLE No

Sheet 1 of 3

H12276 REFERENCE No Mackay Ring Road PROJECT Fursden Creek Bridge, Pier 3 (RHS) COORDINATES 721496.9 E; 7661475.2 N LOCATION FG6184 SURFACE RL 4.80m PLUNGE 90° DATE STARTED 29/07/2015 GRID DATUM GDA 94 / MGA Z55 PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 30/07/2015 JOB No USCS WEATHERING ADDITIONAL DATA INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY AND TEST RESULTS STRENGTH RΙ DEPTH SAMPI MATERIAL DESCRIPTION (m) CORE REC % Clayey SILT (Alluvium) Dark brown, moist, soft. Trace rootlets. (ML) 3.70 Silty Sandy CLAY (Alluvium) SPT Dark brown, moist, very stiff to stiff. Fine grained sand, medium CI plasticity, trace rootlets. 2.70 Sandy CLAY (Alluvium) SPT Mottled brown, orange and grey, moist, firm to stiff. Fine grained sand, medium plasticity. (CI) SPT 1.00 Sandy CLAY (Alluvium) Dark grey, wet, very soft. (CH) SPT Fine grained sand, high plasticity, 0.40 trace rootlets. Clayey Silty SAND (Marine) (SC) Pale grey, wet, very loose. Fine grained sand, medium -0.30 plasticity. SPT 4, 5, 10 N=15 Silty SAND (Alluvium) Pale grey, moist, medium dense. Fine to medium grained sand. (SM) SPT N=13 -1.90 Silty CLAY (Alluvium) Mottled pale grey and orange, moist, very stiff. SPT (CI) Fine grained sand, medium N=18 plasticity. -3.10 MICRODIORITE (Kgwu) XW: Recovered as grey and brown, SPT 8, 11, 17 moist, very stiff to hard, sandy clay N=28 trace gravel. Fine to medium grained sand, medium plasticity. xw SPT 9, 14, 21 N=35 Continued on next sheet REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** C.Boyes S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

# **Queensland** Government

## **GEOTECHNICAL BOREHOLE LOG**

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

FINAL 18/03/2016

**BH267** BOREHOLE No

Sheet 2 of 3

H12276 REFERENCE No Mackay Ring Road PROJECT Fursden Creek Bridge, Pier 3 (RHS) COORDINATES 721496.9 E; 7661475.2 N LOCATION FG6184 SURFACE RL 4.80m PLUNGE 90° DATE STARTED 29/07/2015 GRID DATUM GDA 94 / MGA Z55 PROJECT No 242/10G/906 DATE COMPLETED 30/07/2015 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT STRENGTH DEFECT SPACING SAMPLES TESTS Ξ LITHOLOGY SAMPLE DEPTH ( RΙ MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᆂᅬᅿᅿᆿᅟᅴᇛᇰᄓᄫᇂᆘᇂᄪ MICRODIORITE (Kgwu) 24, 30/140 HW: Grey, fine grained, massive, very low strength. Calcite veins throughout. 30/75 HW 30/30 8.10 GRANODIORITE (Kgwu) HW: Grey and pink, coarse grained, 30, 30/70 massive, very low strength. HW 9.00 MICRODIORITE (Kgwu) HW: Grey, fine grained, massive, very low strength. 30/40 Calcite veins throughout. HW 15 -10.60 GRANODIORITE (Kgwu) HW: Grey and white, coarse grained, massive, very low strength. 16 HW R 30/140 19 30/90 Continued on next sheet REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** C.Boyes S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

## Queensland Government

# GEOTECHNICAL BOREHOLE LOG

**FINAL** 18/03/2016

BOREHOLE No BH267

Sheet 3 of 3

FOR GEOTECHNICAL TERMS AND H12276 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Mackay Ring Road PROJECT Fursden Creek Bridge, Pier 3 (RHS) COORDINATES 721496.9 E; 7661475.2 N LOCATION DATE STARTED 29/07/2015 FG6184 SURFACE RL 4.80m PLUNGE 90° GRID DATUM GDA 94 / MGA Z55 PROJECT No 242/10G/906 DRILLER Saxon Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 30/07/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY STRENGTH RΙ DEPTH SAMPI MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᄫᅴᅿᆿᆸᇝᇰᄓᄫᇂᇂᇕ GRANODIORITE (Kgwu) 30/60 HW: Pink and grey, coarse grained, massive, very low strength. HW U 30/140 -16.60 MICRODIORITE (Kgwu) HW: Grey, fine grained, massive, very low strength. 30/10 22 Calcite veins throughout. HW -18.00 (96) A (22.85m)\_ MICRODIORITE (Kgwu) 23 Is(50)=2.40 MPa SW: Grey, fine to medium grained, 23.10m-23.22m: Altered Granodiorite: 50°; massive, generally high to very high UCS=76.30 MPa (23.34m) strength. E=43.6 GPa Calcite veins throughout. Altered v= 0.118 throughout. Js: 0° to 30°; PI-Sm/Ro; OP-CD; CA Is(50)=3.80 MPa A (24.00m) Is(50)=4.30 MPa D (24.10m)-100 (66) Is(50)=0.85 MPa D (24.54m)\_ Is(50)=0.66 MPa A (24.63m) SW 25 = 25.28m-25.30m: VN: CA; CM 26 Is(50)=2.80 MPa D (26.15m) Is(50)=7.30 MPa A (26.26m) D (26.87m)-27 HW 27.15 to 27.35m: CORE LOSS 93 (79) UCS=38.10 MPa (27.69m) SW 28 MW Is(50)=1.20 MPa Is(50)=0.52 MPa SW A (28.60m) -23.95 100 D (28.70m) Borehole completed at 28.75m REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** C.Boyes S.Foley

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### **CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section 35 Butterfield Street, Herston Qld 4006 Phone 07 3066 3336



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	30/07/15
Borehole No.	BH 267	TMR H No.	H12276
Location	Fursden Creek Bridge	Start Depth (m)	22.80
Detail	Pier 3, RHS	Finish Depth (m)	28.75
Chainage		Submitted By	M.Ensor
Remarks			

