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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH04**

Sheet 1 of 4

REFERENCE No **H12904**

PROJECT **Boyne River Bridge Repalcement**

LOCATION **Pier 1, RHS**

COORDINATES **323473.6 E; 7159927.6 N**

PROJECT No **FG6482**

SURFACE RL **117.78m**

PLUNGE **90°**

DATE STARTED **11/07/2017**

GRID DATUM **MGA Z56**

JOB No **249/435/375550**

HEIGHT DATUM **AHD**

BEARING **°**

DATE COMPLETED **12/07/2017**

DRILLER **NorthCoast Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
1	116.78				Silty SAND (Fill) Disturbed alluvium used as drill pad. Brown, dry to moist, loose. Fine to medium grained. Low plasticity fines.		(SM)				
				A	Silty SAND (Alluvium) Dark brown, moist, very loose. Fine to medium grained. Low plasticity fines.		(SM)			1, 1, 1 N=2	SPT
2	115.78			B	Clayey SAND (Alluvium) Dark brown, moist to wet, loose. Fine to medium grained. Low plasticity fines.		(SC)			2, 3, 5 N=8	SPT
3	114.78			C	Sandy CLAY (Alluvium) Grey mottled dark brown, moist to wet, stiff. Low to medium plasticity. Fine to medium grained sand.		(CL)			3, 5, 7 N=12	SPT
4	113.78			D	Clayey SAND (Alluvium) Grey brown, moist to wet, medium dense, fine to coarse grained, low plasticity clay, trace silt.		(SC)			6, 8, 12 N=20	SPT
5	112.78			E	SAND (Alluvium) Brown mottled grey, wet, medium dense. Fine to coarse grained. Trace low plasticity clay.					10, 11, 13 N=24	SPT
6				F	6.0m: Becomes dense to very dense.		(SP)			14, 24, 26 N=50	SPT
7	110.64			G	CLAY (Alluvium) Grey, dark grey, wet, firm to stiff, high plasticity.		(CH)			3, 2, 6 N=8	SPT
8	109.78			H	Silty CLAY (Residual) Brown with minor grey mottling, wet, very stiff to hard. High plasticity. Trace fine to medium grained sand. Trace fine, sub rounded gravel.		(CH)			6, 10, 17 N=27	SPT
9				I						8, 14, 23 N=37	SPT
	107.78										

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REMARKS: **Je1 - Evergreen Formation.**

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REVIEWED BY

S. Louei

S. Foley



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GEOTECHNICAL BOREHOLE LOG

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BOREHOLE No **BH04**

Sheet 2 of 4

REFERENCE No **H12904**

PROJECT **Boyne River Bridge Repalcement**

LOCATION **Pier 1, RHS**

COORDINATES **323473.6 E; 7159927.6 N**

PROJECT No **FG6482**

SURFACE RL **117.78m**

PLUNGE **90°**

DATE STARTED **11/07/2017**

GRID DATUM **MGA Z56**

JOB No **249/435/375550**

HEIGHT DATUM **AHD**

BEARING **°**

DATE COMPLETED **12/07/2017**

DRILLER **NorthCoast Drilling**

DEPTH (m)	R.L. (m)	AUGER Casing Washing Cone Drilling	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11				J	Silty CLAY (Residual) Cont'd. At 11.00m: Becoming grey mottled brown, hard.					23, 22, 30/140mm hb	SPT
12				K		(CH)				10/20mm hb	SPT
14	103.78			L	Silty CLAY (Residual) Dark brown, brown, wet, hard. Medium plasticity. With fine grained sand.					11, 14, 21 N=35	SPT
15				M		(CI)				14, 30/145mm hb	SPT
17				N						10/20mm hb	SPT
18				O	Sandy Silty CLAY (Residual) Pale grey, moist, hard. Low to medium plasticity. Fine to medium grained sand.	(CL)				18, 30/140mm hb	SPT
19											
97.78											

Continued on next sheet

REMARKS: Je1 - Evergreen Formation.

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BOREHOLE No **BH04**

Sheet 3 of 4

REFERENCE No **H12904**

PROJECT **Boyne River Bridge Repalcement**

LOCATION **Pier 1, RHS**

COORDINATES **323473.6 E; 7159927.6 N**

PROJECT No **FG6482**

SURFACE RL **117.78m**

PLUNGE **90°**

DATE STARTED **11/07/2017**

GRID DATUM **MGA Z56**

JOB No **249/435/375550**

HEIGHT DATUM **AHD**

BEARING **°**

DATE COMPLETED **12/07/2017**

DRILLER **NorthCoast Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								EH VH H M J VL EL	EC VC C M W VW EW				
				P	Sandy CLAY (Residual) Pale grey and white, wet, hard, medium to high plasticity. Fine to coarse grained sand. Trace silt.		(CI)				30/80mm hb	SPT	
21	96.28												
22			(25)		SANDSTONE (Je1) HW: Pale grey, minor pale brown in parts, fine grained, thinly bedded, mainly very low to low strength. - BP: 15° to 35° (3-4/m); PI/Ro-Sm; TI; some Fe St; some Cly Vr - Js: 50° to 70° (1-2/m); PI/Ro-Sm; TI-CD; some Fe St; some Cly Vr		HW			22.37m-22.39m: XW, Recovered as Clayey SAND	30/70mm hb	SPT D (21.57m) A (21.58m) (21.68m)	
23													D (22.57m) A (22.68m)
24			100 (0)				XW						D (23.30m) A (23.32m)
25							HW						D (24.20m) A (24.21m)
26							XW			26.10m-26.23m: BZ			D (25.90m) A (25.92m)
27			100 (0)				HW			26.41m-26.45m: BZ 26.55m-26.67m: BZ			D (27.25m) A (27.26m)
28							HW						D (28.60m) A (28.61m)
29	88.48		100 (26)							29.09m-29.17m: BZ, DI			D (29.50m) A (29.51m)
	87.78				SANDSTONE (Je1) MW: Pale grey minor pale brown in parts, fine grained,		MW						D (29.50m) A (29.51m)

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REMARKS: Je1 - Evergreen Formation.

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GEOTECHNICAL BOREHOLE LOG

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BOREHOLE No **BH04**

Sheet 4 of 4

REFERENCE No **H12904**

PROJECT	Boyne River Bridge Repalcement
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LOCATION	Pier 1, RHS
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COORDINATES 323473.6 E; 7159927.6 N

PROJECT No	FG6482
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SURFACE RL 117.78m

PLUNGE 90°

DATE STARTED 11/07/2017

GRID DATUM MGA Z56

JOB No 249/435/375550

HEIGHT DATUM AHD

BEARING °

DATE COMPLETED 12/07/2017

DRILLER NorthCoast Drilling

[illegible]

REMARKS: Je1 - Evergreen Formation.

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REVIEWED BY


S. Louei

S. Foley

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	14/07/2017
Borehole No.	BH04	Reference No.	H12904
Location	Pier 1, RHS	Start Depth (m)	21.50
Submitted By	S. Louei	Finish Depth (m)	35.35
Remarks			



0	100	200	300	400	500	600	700
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SCALE (mm)

CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION



Project Name	Boyne River Bridge Replacement		
Project No.	FG6482	Date	14/07/2017
Borehole No.	BH04	Reference No.	H12904
Location	Pier 1, RHS	Start Depth (m)	21.50
Submitted By	S. Louei	Finish Depth (m)	35.35
Remarks			

 A photograph showing a series of soil core samples arranged horizontally in a black tray. Each sample is a cylindrical section of soil, some showing internal fractures. Small white labels with handwritten text are placed at various depths along the cores. The labels include: '30.50 m', '30.90 m', '31.0 m', '32.0 m', '33.0 m', '33.35 m', '33.50 m', and '35.35 m'. The bottom-most core has a larger white label that reads 'EOH @ 35.35 m BH4'. Below the photograph is a scale bar with markings from 0 to 700 mm in increments of 100 mm. The text 'SCALE (mm)' is centered below the scale bar.

0 100 200 300 400 500 600 700

SCALE (mm)