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MAIN ROADS DEPARTMENT ENGINEERING BORE LOG



Form 23ZL(c)
(P) 1/10/74

PROJECT ... NORTH SOUTH FREEWAY, BRISBANE RIVER CROSSING, SECTION H HOLE No. 45
REF. M. 4472
LOCATION ... Coordinates - 35454.8N 44802.9E DATUM AHD
GROUND
JOB No. 140/0008D/004.2 PROJECT No. 2/71 DATE 13/3/78 SURFACE 2.85
TYPE OF DRILLING: Solid Augering ☐ 65mm Hollow Augering ☒ Casing ☐ NMLC Coring ☐

STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Graphic	ENGINEERING PROPERTIES	
Soil Type Lithology	Weathering					Parameters & Indices	MC(%) 0.0 20.0 40.0 60.0 1.0 1.5 2.0 2.5
SILTY CLAY Dark brown, moist, very stiff, organic.		0.00		1.50 2.85			
		1.20	A	1.65			
CLAY Grey, soft, moist. Some minor silt content.			B 2 1.6				
			C				
			D 6 3.0			Firm, iron stained clay band.	
			E			Cu=13kPa LL=49 Grading Qu=2 PI=27 Refer LS=13 Fig.1	
			F 1 4.6				
			G			Cu=7kPa LL=41 Qu=3 PI=25 LS=9	
		6.40	H 1 6.2	3.55			
			J			Cu=19kPa LL=53 Grading Qu=2 PI=31 Refer LS=13 Fig.1	
			K 13 7.6				
CLAYEY SAND AND CLAY Grey, moist to wet. Minor clay bands to 20mm irregularly dispersed in clayey sand. Sand fraction loose and of medium grain size.			L **				
			M 2 9.0				
			N			Cu=12kPa Qu=4	

(continued)

REMARKS GEOLOGIST
** Sample attempted but no sample obtained. ENGINEER
APPROVED
DATE

50mm TUBE 75mm TUBE S.P.T. TEST WATER LEVEL

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG



Form 23ZL(c)
(P) /10/74

PROJECT NORTH SOUTH FREEWAY BRISBANE RIVER CROSSING SECTION H HOLE No 45 (cont.)
REF. H 4472
LOCATION DATUM
GROUND
JOB No PROJECT No DATE SURFACE
TYPE OF DRILLING: Solid Augering ☐ 65mm Hollow Augering ☒ Casing ☐ NMLC Coring ☐

STRATA DESCRIPTION		Depth 10.00	Field Sample & N Value	R.L. 1:50 =7.15	Graphic Log	ENGINEERING PROPERTIES	
Soil Type Lithology	Weathering					Parameters & Indices	MC(%) 0.0 20.0 40.0 60.0 1.0 1.5 2.0 2.5
CLAY Grey, moist to very moist, very soft to soft. Slightly organic with plant remains visible. Slightly sandy and silty in parts.		P	2			Shell fragments to 10mm.	
		Q	1			Cu=28kPa $\phi_u=8^\circ$	
		R	1			Grading Refer Fig.	
		S	3				
		T	2			Cu=6kPa $\phi_u=15^\circ$ C'=20kPa $\phi'_u=43^\circ$	
		U	1			Grading Refer Fig. 3	
		V	1				
		W	3			Cu=47kPa $\phi_u=2^\circ$	
		X	3			Grading Refer Fig. 3	
		Y	2			Cu=38kPa $\phi_u=2^\circ$	
		Z	2			Grading Refer Fig. 3	
		AA	3			Cu=43kPa $\phi_u=3^\circ$	
		AB	3			Grading Refer Fig. 3	

(continued)

REMARKS GEOLOGIST
ENGINEER
APPROVED
DATE

50mm TUBE 76mm TUBE S.P.T. TEST WATER LEVEL

NOTE: For other symbols see Appendix 1.

MAIN ROADS DEPARTMENT
ENGINEERING SORE LOG

Form 29ZL(c)
(P) 1/10/74

PROJECT ... NORTH SOUTH FREEWAY BRISBANE RIVER CROSSING ... HOLE No 45 (cont.)
REF. H 4472
LOCATION ... DATUM ...
GROUND ...
JOB No ... PROJECT No ... DATE ... SURFACE ...
TYPE OF DRILLING: Solid Auguring ☐ 65mm Hollow Auguring ☒ Casing ☐ NMLC Casing ☐

STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Graphic Log	ENGINEERING PROPERTIES	
Soil Type Lithology	Weathering					Parameters & Indices	MC(%) 0.0, 20.0, 40.0, 60.0 1.0, 1.5, 2.0, 2.5
CLAY (CONT.)		20.00		17.15			
		AC				Cu=43kPa Qu=2 ⁶	Grading Refer Fig.3
		AD	4	21.1			
		AE				C=58kPa Qu=2 ⁶ C'=62kPa Qu=3 ⁰	Grading Refer Fig.3
		AF	4	22.6			
		AG				Cu=59kPa Qu=2 ⁶	Grading Refer Fig.3
		AH	4	24.2			
SAND AND GRAVEL Brown, wet & loose. Coarse grained sand and gravel to 40mm.		AJ				Cu=55kPa Qu=2 ⁶	Grading Refer Fig.3
		AK	4	25.6			
		AL		22.95			
		AM	31	27.1			
		AN	19	28.8			

(continued)

REMARKS ...
... Sample attempted but no sample obtained.
GEOLOGIST ...
ENGINEER ...
APPROVED ...
DATE ...

50mm TUBE 76mm TUBE S.P.T. TEST WATER LEVEL

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG



Form 23ZL(c)
(P) 1/10/74

PROJECT NORTH SOUTH FREEWAY BRISBANE RIVER CROSSING SECTION E HOLE No 45 (cont.)
REF. H 4472
LOCATION DATUM
GROUND
JOB No PROJECT No DATE SURFACE
TYPE OF DRILLING: Solid Augering ☐ 65 mm Hollow Augering ☒ Casing ☒ BXM Coring ☒

STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Log Graphic	ENGINEERING PROPERTIES		
Soil Type Lithology	Weathering					Parameters & Indices	MC(S)% x	GD(1/m3)o x
SAND AND GRAVEL (CONT.)		30.00	24	-27.15				
		30.00	30					
SHALE Dark grey, fine grained sub- horizontally bedded fissile sedimentary rock.		31.00	15	-31.00				
		31.00	30					
MODERATELY WEATHERED Defects along bedding and related to numerous thin (5mm) shale and siltstone laminae.		34.00	60/75	-31.15				
SANDSTONE Grey, medium to fine grained sub- horizontally bedded sedimentary rock.		34.95	93	-32.10				
SLIGHTLY WEATHERED Occasional laminae of shale to 10mm. Medium grain size throughout.		35.80	95	-32.95				
SHALE Dark grey, fine grained sub- horizontally bedded fissile sed. rock.		39.25	100	-36.40				
SLIGHTLY WEATHERED Defects along bedding common. Rare subvertical joints. Medium grained sandstone laminae to 20mm throughout.								
SANDSTONE Sandstone, medium grained.								
SANDSTONE Sandstone medium grained.								

REMARKS ... (continued) ...
Sample attempted but no sample obtained.
Z. Arid. Point Load Test
GEOLOGIST
ENGINEER
APPROVED
DATE
Time TUBE ☐ From TUBE ☐ S.P.T. TEST ☐ WATER LEVEL ☒

MAIN ROADS DEPARTMENT ENGINEERING BORE LOG



Form 23ZL(d)
(P) /10/74

PROJECT NORTH SOUTH FREEWAY BRISBANE RIVER CROSSING HOLE No 45 (cont.)
REF. H 4472
LOCATION DATUM
GROUND
JOB No PROJECT No DATE SURFACE
TYPE OF DRILLING: Solid Augering ☐ 65mm Hollow Augering ☐ Casing ☒ BXM Coring ☒

STRATA DESCRIPTION		Depth	Core Rec. %	R.L. 1:50	Graphic Log	STRUCTURE	ENGINEERING PROPERTIES									
Soil Type	Weathering						Intact strength					Defect Spacing				
Lithology							CU	VI	HC	MC	SEC	VC	UC	EF	EX	
SANDSTONE Grey, medium to coarse grained, friable horizontally bedded sedimentary rock.	<u>SLIGHTLY WEATHERED (CONT.)</u> Defects along bedding common.	40.00	79	37.15												
END OF HOLE																

REMARKS: GEOLOGIST
ENGINEER
APPROVED *[Signature]*
DATE 21/7/78

