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ARU	P B	DREHOLE RECORD	DL	SHEET 1				
Geotechr			HOLE D	MS/PF				
PROJECT	Nundah Bypass		DATES 20/1					
CONTRACTOR DRILL MODEL	Daly Bros DB1000	ANGLE Vertical BEARING	GROUND LEVEL EASTING 40	. RL 22.43 378				
MOUNTING	Tandem Drive Truck	DIAMETER NMLC	NORTHING 3	8849				
DRILLING	STRATA	MATERIAL DESCRIPTION	CONDITIO	N OBSERVATIO				
SAMPLE, TEST, BIT, SUPPORT, ETC.	B H H H GROUP SYMBOL	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WATER / MOISTURE VS S S S S S S S S S S S S S S S S S S	NON STRUCTURE COHESIVE FTC:				
Wash boring Rock roller	0.5	Bitumen pavement over gravel road base	M	ROAD BASE				
SPT @ 1m	- U.S CH	CLAY: Grey and red brown, medium to high plasticity		RESIDUAL SOIL				
4/3/2 N=5	-							
ļ - -		- - -						
SPT @ 2.5m	2.5 SC	SAND: Mottled grey and red brown, fine to	<u> </u>	XW ROCK				
36/150mm / N=R		medium grained, slightly cemented with traces of clay		THE AN AGEN				
	<del>                                    </del>	Start coring at 2.7m Refer to cored borehole logs	- - - - -					
	4	- - - -						
			- -					
	5							
[								
	7		_					
NOTES	] <sub>8</sub> .		1 1 1 1 1 1 1	IOP				
NOTES 1. (	Groundwater not encounte	ered prior to commencement of washboring		<sup>ЈОВ</sup> 11177/1				
FN30.14 October	1994							

ARUP co	RED BOREHOLE RECORD	SHEET 1
Geotechnics		HOLE BH103 OF 4
PROJECT Nundah Bypass	DATE/S 20/1/99	
CONTRACTOR Daly Bros DRILL MODEL DBi000 MOUNTING Tandem Driv	ANGLE Vertical BEARING Truck DIAMETER NMLC	GROUND LEVEL RL 22.43 NORTHING 38849 EASTING 40378
DRILLING STRATA	MATERIAL DESCRIPTION	DISCONTINUITIES
SAMPLE TEST R.L. DEPTH	ROCK TYPE Colour, Grain Size, Structure, Minor Components  ROCK STRENGTH  FINANCE ROCK STRENGTH	Roughness Class,
2.7  3.2  3.4  3.55  3.55  4.9  5.00  1.5 (50)  -0.01  -0.03  1.5 (50)  -0.01  -0.03  -0.01  -0.05  -0.01  -0.05  -0.01  -0.05	Start coring at 2.7m  SANDSTONE: Mottled grey with red brown Jiron staining, fine to medium grained, occasional clayey, bands  SILTSTONE: Mottled grey and red brown with iron deposition along fissures  SANDSTONE: Grey with red brown iron staining, occasional harder ironstone bands  SILTSTONE: Band, red brown, with sub angular quartizitic gravel, becoming more sandy with depth  Core loss 100mm  SILTSTONE: Light grey with red iron staining, occasional harder ironstone bands  TYPE OF D  Jo JOINT Be BEDDI CLAY WEATT	We 0 30 Weathered red ironstone  ISCONTINUITY JOB  NG PLANE PARTING TION PARTING

A	RU	IP co	RED BOREHOLE RECO	)RD		SHEET 2
G	eotechr				HOLE BH10	
PF	ROJECT	Nundah Bypass			LOGGED BY DATE/S	MS/PF 20/1/99
CONTRACTOR Daly Bros  DRILL MODEL D81000  MOUNTING Tandem Drive Truck		ANGLE Vertion BEARING Fruck DIAMETER NMLC		GROUND LEVEL NORTHING 388 EASTING 40378	49	
DRILLING STRATA MATERIAL DESCRIPTION					DISCO	NTINUITIES
BOCK TAGE			DOGK TVOS	S ESTIMATED	SPECIFIC SS	GENERAL DESCRIPTION
RUN REC.	SAMPLE TEST	R.L. DEPTH CEGEN AHD m	ROCK TYPE Colour, Grain Size, Structure, Minor Components	ME AT THE PRINCE AND	FREGUENCY  TYPE  ANGLE  THICKNESS  (mm)	Roughness Class, Coating, Infill
*001	Is (50) =0.06 Is (50) =0.06	9.5 9.6	SANDSTONE: Light grey with orange iron stained bands, fine grained, slightly clayey		Jo 70 0	High angle (70 deg) to vertical joints, closed, bedding planes displaced on either side of joint plane
94%		10.2	SANDSTONE: Light grey, fine grained, -slightly clayey			
100%	Is (50) =0.05 Is (50) =0.06	11.2	SANDSTONE band 50mm, higher strength -SANDSTONE: Orange brown iron stained, fine to medium grained			
100%	Is (50) =0.02	12.75	SANDSTONE: Light grey with some iron staining, medium grained, slightly cemented			
	Is (50) =0.02	14.3	Occasional softer sandy bands, driller noted core swelling slightly			
— 76% → <del> </del>		15.3	SILTSTONE bands, approximately 10mm		CI O IO	Siltstone band
١	NOTES			Jo JOINT	SCONTINUITY	JOB
FN	132.14 October	1994		Be BEDDIN Fo FOLIAT CI CLAYS We WEATH Cr CRUSH	NG PLANE PARTING FION PARTING SEAM ERED SEAM ED SEAM ED ZONE	11177/1

PROJECT Nundah Bypass  CONTRACTOR Daly Bros ANGLE Vertical SROUND LEVEL MODITING DBIOO BEARING NORTHING 368-EASTING 40378  DRILL MODEL DBIOOO BEARING NORTHING 368-EASTING 40378  DRILLING STRATA MATERIAL DESCRIPTION  DISCONSIDERATION DISCONSIDER	MS/PF 20/1/99 RL 22.43
CONTRACTOR Daily Bros DBIO00 BEARING MOUNTING Tandem Drive Truck DIAMETER NMLC EASTING A0378  DRILLING STRATA MATERIAL DESCRIPTION DISCON  SAMPLE TEST AHD  III.  III.  SAMPLE TEST AHD  III.  SANDSTONE: Light grey, fine grained  III.  III.  SANDSTONE: Light grey, fine grained  III.  III.  III.  III.  III.  III.  III.  SANDSTONE: Light grey, fine grained  III.  III.	RL 22.43 49 HTINUITIES GENERAL DESCRIPTION Roughness Class,
DRILLING STRATA MATERIAL DESCRIPTION  DISCONDING STRATA  R.L. DEPTH DEPTH DEPTH Colour, Grain Size, Structure, Minor Components  AHD m  SILTISTUNE: Dark grey, thinny bedded  Core loss 250mm 18.35  18.47  SANDSTONE band 330mm, orange brown, fine grained  17.17  SANDSTONE band 280mm, orange brown, fine grained  18.18  Thin horizontal bed of fossilised organic matter, dark grey  19.35  Thin horizontal bed of fossilised organic matter, dark grey  18.18  Thin horizontal bed of fossilised organic matter, dark grey	ITINUITIES  GENERAL DESCRIPTIO  Roughness Class,
SANDSTONE band 280mm, orange brown, fine grained  17.65  SANDSTONE: Light grey, fine grained  19.35  Thin horizontal bed of fossilised organic matter, dark grey  Is (50)  10.08  SILISTONE: Light grey fine grained  15.65  Thin horizontal bed of fossilised organic matter, dark grey  Is (50)  10.08  SILISTONE: Light grey fine grained  17.65  SANDSTONE band 280mm, orange brown, fine grained  18.65  Is (50)  19.35	Roughness Class,
16.15   SILTSTONE: Dark grey, thinly bedded   16.35   16.47   SANDSTONE band 330mm, orange brown, fine grained   17.65   SANDSTONE: Light grey, fine grained   17.65   SANDSTONE: Light grey, fine grained   19.15   Thin horizontal bed of fossilised organic matter, dark grey   19.15   19.35   Thin horizontal bed of fossilised organic matter, dark grey   19.00	
16. IIII STONE: Dark grey, thinly bedded    18.35	
SANDSTONE band 280mm, orange brown, fine grained  17.65  SANDSTONE: Light grey, fine grained  18  Thin horizontal bed of fossilised organic matter, dark grey  19.35  Is (50) =0.08	
SANDSTONE: Light grey, fine grained	
Thin horizontal bed of fossilised organic matter, dark grey  19.35  Thin horizontal bed of fossilised organic matter, dark grey  Is (50)  =0.08	
Is (50) =0.08	
	·
=0.08	
SANDSTONE: Light grey, fine to medium grained, trace organic bands	
- 23	High angle (75 deg) vertical joints,
23.7 SILTSTONE: Dark grey	open, fossilised
NOTES  TYPE OF DISCONTINUITY  JO JOINT BE BEDDING PLANE PARTING FO FOLIATION PARTING CI CLAY SEAM WE WEATHERED SEAM	

		RU	P		20	RED BOREHO	OLE RI	ECC	ıR	D		н	OLE		 Rŀ	110	3	SHEET	4
	ROJE	techr		lah Bypa	 3ss	<u></u>				_		LC	OGG	ED 8		110	MS/F	PF	<u>-</u>
CONTRACTOR Daly Bros ANGLE Ver DRILL MODEL DB1000 BEARING							Verti NMLC				GF NO	ÖRT	ND L	G	388 378				
DRILLING STRATA MATERIAL DESCRIPTION													DI	SCO	NTINU	ITIES			
RUN REC. (%)	WATER	SAMPLE TEST	R.L.	DEPTH m	LEGEND	ROCK TYPE Colour, Grain Size, Minor Compon	E Structure, lents	,	WEATHERING	STRE	MATED ICK INGTH	FREG		TYPE	E 319NA	THICKNESS II (mm)	Rou	RAL DES ghness C Coating,	
15%		Is (50) =0.14 Is (50) =0.19	_	24.2 24.7 25 25.15		Core loss 100mm  SILTSTONE: Dark grey, occi grained sandstone bands  SANDSTONE: Light grey, fine occasional siltstone bands  Core loss 350mm	<del></del>												-
*				26 -27 -28 -29 -30		End BHIO3 at 25.5m													
	NOT	ES 4 October	1994	- <del>1-32</del> -		I			Jo Be Cl We Cr	J( ! B' ! C ! W	OF DI DINT EDDIA OLIAT LAY S EATH RUSH HEAR	NG PL TION SEAM EREC ED S	.ANE PAF D SE	E PAI ITINI	RTIN	16	J0В	177,	<b>/</b> 1