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ARI	JP			BC	DREHOLE RECORD	BH31	0	SHEET 1 OF 3
CLIENT	DMR					LOGGED BY	ALT	
PROJECT	IPSWI	СН МОТО	ORW <i>A</i>	AY UPG	RADE - WACOL TO DARRA	 CHECKED BY DRILLED DATE 	GWB 21-Ap	r-08
CONTRACTOR DRILL MODEL DRILLER	End	ratest dson 3000 ratest)		ANGLE Vertical BEARING - HOLE DIAMETER 100mm ()	GROUND LEVEL RL 25.91m LOCATION 32665 E 150417 N ELEVATION DATUM Australian Height Datum COORDINATE SYSTEM Local Grid		
DRILLING		STRA	TA		MATERIAL DESCRIPTION	CONDIT	ON	OBSERVATIO
						CONSIS		
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH m	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER / MOISTURE / S S S S COHESIVE / COHESIVE / VST / CONSIS	SOIL ORIGIN, STRUCTURE, ETC.	
		""	<u>o</u>	9 4 4	Concrete paving.	> 0 F 0 > 3		FILL
	25.71 25.61	0.20 0.30	sw		SAND (SW) medium grained, light brown, with clay and gravel.			FILL
	25.46	0.45 - - - 1	SP	XX	GRAVEL (road base). SAND (SP) medium grained, brown, (Vacuum excavation, no data obtained, information assumed from surrounding exploratory holes, TP267 and BH232).	-		FILL
SPTLS N=4 1;2,2		- 1.40 -	SW	· · · · · · · · · · · · · · · · · · ·	Gravelley SAND (SW) loose, fine to coarse grained, light green brown gravel rounded fine to medium grained with silt.	-		NONCO
	-	-2		0	-	-		
SPTLS N=9 2;4,5		2.20	SW		Gravelley Clayey SAND (SW) medium dense, medium to coarse grained, grey gravel subrounded to round fine to medium grained.	-		NONCO
	-	-3		-· · -	- -]		
	22.51	3.40	ML	× ×	Sandy Clayey SILT (ML-MI) stiff to very stiff, light grey, sand fine			COHES
		_	MI	× ×	grained with ironstaining.			
SPTLS N=22 5;7,15				× ×	- -			
		· ·		× × ×	-	-		
	-			× × ×	-	-		
	21.31	4.60	sw	×	Silty SAND (SW) medium dense, fine to medium grained, light grey, with clay and pockets of Silty CLAY (CL).	1 1111		NONCO
	_	- 5		×	- · · · · · · · · · · · · · · · · · · ·	4		
N-41	, .			×	-	-		
SPTLS N=13 3;6,7		-		×	-	1		
				×	- -	1		
	19.91 -	- 6 6.00	SC	× .	Clayey SAND (SC) medium dense, fine to medium grained, grey, with	<u> </u>		NONCO
	-				- silt.	- "		nones
		-			-	1		
SPTLS N=2°	. .				- -]		
SPTLS N=2′ 4;8,13 U		- 7 7.10		· ·	-	-		
	10.01	7.10	СН		Sandy CLAY (CH) very stiff, grey, sand fine grained.			COHES
		Ţ			-			
	18.21	7.70	СН	E_X	Silty CLAY (CH) very stiff, grey, with ironstained pockets.	- M		COHES
	-	-8		<u>*</u>	-	-		
SPTLS N=18		8.20			MUDSTONE, extremely weathered, extremely low strength, concoidal fracture planes brown, properties of a CLAY (CH) very stiff, with layers	D		MUD
5;8,10) .				of Silty MUDSTONE.			
U		-			-			
	-	9			<u>-</u> -			
					- -			
		-			-			
SPTIS N=22	2 .	<u> </u>				-		
SPTLS N=22 7;9,10	3							

CLIENT DMR	ARL	JP			BC	DREHOLE RECORD		3H	31	0		SHEET 2	
### PROJECT ### WHICH MOTORWAY UPGRADE - WACCU TO DARRA CONTRACTOR Templated Financial Solid F									DV		A1 T	OF 3	
MAIST Torridot			CHECKED BY										
### DRILLING STRATA	PROJECT	IPSWI	CH MOTO	JRWA	AY UPG	GRADE - WACOL TO DARRA	DF	RILLED	DATE		21-Ap	or-08	
DRILLING STRATA										EL			
DRILLING STRATA MATERIAL DESCRIPTION CONDITION DISSERVATION SAMPLE, TEST, BL. DEPTH				,						JM			
SAMPLE, TEST, RL DEPTH Section S													
PRIS N-21 14.01 11100 Q Sandy Clay (Ch) sand fine gained. PRIS N-21 14.61 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-22 12 13 15 15 40 M. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-34 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-35 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch)	DRILLING		STRA	TΑ		MATERIAL DESCRIPTION		CO	NDIT	ION		OBSERVATIO	
PRIS N-21 14.01 11100 Q Sandy Clay (Ch) sand fine gained. PRIS N-21 14.61 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-22 12 13 15 15 40 M. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-34 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-35 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch)		-		٦				Τ					
PRIS N-21 14.01 11100 Q Sandy Clay (Ch) sand fine gained. PRIS N-21 14.61 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-21 14.65 1130 Sandy Clay (Ch) sand fine gained. PRIS N-22 12 13 15 15 40 M. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-33 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-34 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-35 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) sand fine gained. PRIS N-36 11.71 14.20 Sandy Clay (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch) (Ch)	SAMPLE TEST	.	DEDTU	MBC	□		CONSIST			STENC	Y	SOIL ORIGIN	
MUDSTONE, externely weathered, extensive to effective to medium grained.	BIT, SUPPORT,	R.L.	DEPTH	λSc	GEN		ATE ISTU	СОН	ESIVE			STRUCTURE,	
MUD-TONE. schemely vestillered, extensely on alternative your strongth, conocicial forching places bloom, properties of a CLAY (CH) very diff, with layers of CAP (CH) very diff, with layers o	ETC.			Sou	"	,	Š₫			COF		EIG.	
TPLS N=20 13.17.19 14.91 1111.00 CI Surdy CLAY (CI) sand fine grained. COHES NONCO		m	m	9		MLIDSTONE extremely weathered extremely low strength concoldal		> o π	S % :		<u> </u>	MUD	
PTLS N=28 11.15.19 15.20 SN X Siny SAND (SM) medium dense, fine to medium grained, grey with originated. SN X Siny SAND (SM) medium dense, fine to medium grained, grey with province to making the province of the province o			+			- fracture planes brown, properties of a CLAY (CH) very stiff, with layers -							
PTLS N=28 14.61 11.30 50 50 50 50 50 50 50			†										
PTLS N=28 14.61 11.30 50 50 50 50 50 50 50			†			-							
PTLS N=28 14.61 11.30 50 50 50 50 50 50 50		14.01	I			-							
14.46			↓	CI		Sandy CLAY (CI) sand fine grained.						COHES	
PTLS N=10 13.11 12.80 SM X Silly SAND (SM) loose to medium dense, fine to medium grained, light www. Silly SAND (SM) loose to medium dense, fine to medium grained, light www. Silly SAND (SM) loose to medium dense, fine to medium grained, light www. Silly SAND (SM) loose to medium dense, fine to medium grained, light www. Silly SAND and GRAVEL dense to very dense, fine to medium grained grained. COHES 11.7.19 15.40 ML Silly MUDSTONE, brown, properties of a Silly CLAY (CL) hard. MUD MUDSTONE, brown, properties of a Silly CLAY (CL) hard. MUD					× .			‡					
PTLS N=10 13.11 12.80 SM X Sily SAND (SM) loose to medium dense, fine to medium grained, light W Sandy CLAY sand medium to coase grained. 12.01	0,10,11	17.70	+ '3	SC	<u> </u>	Clayey SAND (SC) medium dense to dense, fine grained, light grey						NONCO	
PTLS N=23	J		†		<u> </u>	brown with light red pockets.					Ш		
PTLS N=10 13.80 12.01 14.13.80 12.01 14.13.80 11.71 14.20 14.20 14.20 15.4		-	12		<u> </u>	-							
PTLS N=10 13.80 12.01 14.13.80 12.01 14.13.80 11.71 14.20 14.20 14.20 15.4			†			-					ш		
PTLS N=10 13.80 12.01 14.13.80 12.01 14.13.80 11.71 14.20 14.20 14.20 15.4			Ī		-:	· -					ш		
PTLS N=10 13.80 12.01 14.13.80 12.01 14.13.80 11.71 14.20 14.20 14.20 15.4		13.11	12.80		<u> </u>							NONCO	
2.8 12.01	edtie N=10			SM			W					NONCO	
PTLS 11.71, 19 11.71	3;2,8		+			-							
PTLS N=38 11.15.19 1.16 1.18.20			+		l	-							
PTLS N=34			†		ll	-							
PTLS N=36 11.71 14.20		12.01			× .	Sandy CLAY sand medium to coase grained.	W	$ \cdot $				COHES	
PTLS N=32		11 71				,					Ш		
PTLS N=32 7;14,18 9,51 16,40 ML			+		1001	and the control of th						SNDGRV	
PTLS N=32	10,17,13		+			-							
PTLS N=38			†		000	-							
PTLS N=32		-	- 15		1001	-							
PTLS N=32 7;14,18 9.51 16.40 Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. PTLS N=38 10;18,20 10;18,20 MUDSTONE, extremely weathered, low strength brown. Silty MUDSTONE, extremely weathered, low strength brown. Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU		10.51	15.40		0,00	-							
PTLS 7:14,18 9.51 16.40		10.51	15.40	ML	× × ×	Sandy Clayey SILT (ML) very stiff, orange, sand fine grained.						COHES	
7;14,18 9,51 16,40 N=38 10;18,20 PTLS N=38 10;18,19 AUDSTONE, extremely weathered, low strength brown. MUD MUD MUD MUD MUD MUD MUD MU	entre N=32		↓		× ×)	-							
PTLS N=38 10;18,20 10;18,20 10;18,20 10;18,20 MUDSTONE, extremely weathered, low strength brown. 6.71 19,20 MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU		-	16		× ×	-							
PTLS N=38 10;18,20 10;18,20 10;18,20 10;18,20 MUDSTONE, extremely weathered, low strength brown. 6.71 19,20 MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU			†		× ×	-							
PTLS N=38 10;18,20 + 18 PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring		9.51	16.40			Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard.						MUD	
PTLS N=38 10;18,20 + 18 PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring			Ţ			- -							
PTLS N=38 10;18,20 + 18 PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring			17			- -							
PTLS N=34 11;15,19 6.71 19.20 MUDSTONE, extremely weathered, low strength brown,. 6.51 19.40 Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring						-							
PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU			†			-							
PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU			†			-							
PTLS 11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU			†			-							
11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown,. Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU		'	18			-							
11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown,. Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU						- -							
11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown,. Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU			-			-							
11;15,19 6.71 19.20 6.51 19.40 MUDSTONE, extremely weathered, low strength brown,. Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. MUD MUD MUD MUD MUD MUD MUD MU	SPTLS N=34		+			-							
OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring	11;15,19	-				-							
OTES Hole Diameter 100mm to 25.50m depth. (Solid Flight Augering to 7.2m. Washboring						MUDSTONE, extremely weathered, low strength brown,.				'		MUD	
Tible Blameter Teernin to 20:00m depth. Cond Flight Tagering to 1.2m. Washboring		6.51	+ 19.40			Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard.						MUD	
Tible Blameter Teernin to 20:00m depth. Cond Flight Tagering to 1.2m. Washboring]			- -							
Tible Blameter Teernin to 20:00m depth. Cond Flight Tagering to 1.2m. Washboring										Щ			
W 400 W 4 4111 1 1 W 5 TO 4 0 TO 5	IOTES Hole Dia	meter 10	00mm to 25	5.50m	depth. (Solid Flight Augering to 7.2m. Washboring				JC			

ARU	JP B				DREHOLE RECORD	BH31	0	SHEET 3 OF 3	
CLIENT PROJECT	DMR IPSWI	СН МОТО	DRW <i>A</i>	AY UPG	LOGGED BY CHECKED BY DRILLED DATE	ALT GWB 21-Api	:-08		
CONTRACTOR DRILL MODEL DRILLER	End	ratest dson 3000 ratest)		ANGLE Vertical BEARING - HOLE DIAMETER 100mm ()	GROUND LEVE LOCATION ELEVATION DATUM COORDINATE SYST	RL 25.91m 32665 E 150417 N Australian Height Datum		
DRILLING		STRA			MATERIAL DESCRIPTION	CONDITIO	N	OBSERVATION	
SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH m	GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER / MOISTURE VS S S ST ST SISSOO WATER / WAST HANDO	NON COHESIVE	SOIL ORIGIN, STRUCTURE, ETC.	
- N=52	-				Silty MUDSTONE, brown, properties of a Silty CLAY (CL) hard. (continued)	-		MUD	
SPTLS N=52 16;27,25	5.51 -	20.40			MUDSTONE, extremely to distinctly weathered, low strength brown, properties of a CLAY (CH) hard.	-		MUD	
	-	21 21 			- - - -	-			
SPTLS N=39 11;16,23	4.11 -	- 21.80 - 22			Silty MUDSTONE, dark grey properties of a Silty CLAY (CH), hard.	- - -	_	MUD .	
- - - . SPTLS N=37 9;16,21	-	- 23 			- - - -	-			
SPTLS N=48 12;24,24	-	- 24 - -			 - - -	- - - -			
-	-	- 25			- -	-		-	
[0.41	25.50			- Borehole completed at 25.5m depth	1			
-	-	26 			- - -	- - -		-	
-	-	27 			- - - -	- - - -			
-	-	28 			- - - -	1 - - - - -			
-	-	- 29			- - - - -	- - - - -			
NOTES Hole Dia with 100		^{ЈОВ} 86015							