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CLIENT	TMR	LOGGED BY	Robyn Shaw
PROJECT	BHAP Cattle and Frances Creeks Upgrade Project Ground Investigation	CHECKED BY	Nathan Roberts
CONTRACTOR	Cairns Drilling Pty Ltd	DRILLED DATE	30-Aug-13
DRILL MODEL	MST 1500	ANGLE	
DRILLER	Mick Bacon (Cairns Drilling)	BEARING	-
		HOLE DIAMETER	()
		GROUND LEVEL	
		LOCATION	409807 E 7928772 N
		ELEVATION DATUM	Australian Height Datum
		COORDINATE SYSTEM	Map Grid of Australia (MGA 1994)

DRILLING	STRATA			MATERIAL DESCRIPTION	CONDITION	OBSERVATION													
	SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH			GROUP SYMBOL	LEGEND	SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER/MOISTURE	CONSISTENCY									
										COHESIVE					NON COHESIVE					SOIL ORIGIN, STRUCTURE, ETC.
	mAHD	m					VS	S	LL	ST	VST	H	VL	L	MD	D	VD		
B		0.16	CH		PAVEMENT - CONCRETE.													FILL	
SPTLS	N=9 2,4,5	1.10	CH		Sandy CLAY (CH) high plasticity, dark brown, sand is fine to medium grained, moist.	M												FILL	
SPTLS	N=7 2,3,4	1.70	SP		Sandy CLAY (CH) high plasticity, grey mottled orange, sand is fine grained, moist.	M												ALV	
SPTLS	N=3 1,2,1	2.00	SP		Clayey SAND (SP) fine to medium grained, grey, moist. 1.70m Increasing sand content - becoming Clayey SAND	M												ALV	
SPTLS	N=12 2,5,7	3.60	CH		.... 2.50m Clayey SAND, fine to medium grained, grey brown with orange staining	M												ALV
SPTLS	N=16 4,7,9	4.30	SP		Sandy CLAY (CH) high plasticity, grey, sand is fine to medium grained, moist.	M												ALV	
SPTLS	N=180** 30/50s	4.70	CH		Clayey SAND (SP) medium to coarse grained, angular, quartz rich, grey, moist.	M												ALV	
SPTLS	N=33 12,18,15	7.60	SP		CLAY with Sand (CH) high plasticity, grey, sand is medium grained, moist. 5.40m CLAY becoming stiffer 5.50m Sandy CLAY, high plasticity, grey mottled orange-brown, sand is medium grained 5.80m Sand becomes medium to coarse grained	M												ALV	
SPTLS					.... 6.70m Hard drilling, potential indurated layer, small angular elongate gravel chippings of cemented sand recovered 7.00m Small fine to medium grained chippings recovered as above	M												ALV
SPTLS					Clayey SAND (SP) medium to coarse grained, subangular quartz, grey, moist. 7.60m Becoming sandier, drilling easier	M												ALV	

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CLIENT	TMR		LOGGED BY	Robyn Shaw	
PROJECT	BHAP Cattle and Frances Creeks Upgrade Project Ground Investigation		CHECKED BY	Nathan Roberts	
CONTRACTOR	Cairns Drilling Pty Ltd	ANGLE	DRILLED DATE	30-Aug-13	
DRILL MODEL	MST 1500	BEARING	-		
DRILLER	Mick Bacon (Cairns Drilling)	HOLE DIAMETER	()		
GROUND LEVEL LOCATION			409807 E 7928772 N		
ELEVATION DATUM			Australian Height Datum		
COORDINATE SYSTEM			Map Grid of Australia (MGA 1994)		

DRILLING	STRATA			MATERIAL DESCRIPTION	CONDITION		OBSERVATION										
	SAMPLE, TEST, BIT, SUPPORT, ETC.	R.L.	DEPTH		GROUP SYMBOL	LEGEND		SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	WATER/MOISTURE	CONSISTENCY	SOIL ORIGIN, STRUCTURE, ETC.						
	mAHD	m					VS	SL	ST	VST	H	VL	J	MD	D	VD	
SPTLS	N=82** 30/110s		11	SP	Clayey SAND (SP) medium to coarse grained, subangular quartz, grey, moist. (continued) 10.00m Cemented Clayey SAND, medium to coarse grained, quartz rich, grey, cemented layers hard to break by hand	M											ALV
					.... 11.20m Coarse grained quartz sand	M											
SPTLS	N=26 9;11,15		12		.... 11.50m Clayey SAND, medium to coarse grained, grey with brown staining	M											
			12.70	CH	CLAY with Sand (CH) high plasticity, grey mottled red-brown, sand is medium grained, moist.	M											ALV
SPTLS	N=61* 22;57/280		13		.... 13.00m Sandy CLAY, high plasticity, grey mottled orange, sand is fine to coarse grained, high quartz content												
					.... 13.30m Becomes orange-brown												
					.... 13.50m Becomes grey, with gravel, fine to medium grained, angular, elongate, cemented sand, very thin clasts ~1mm thick												
			14		.... 14.10m Becomes orange-brown												
SPTLS	N=75* 24;30/120		15		.... 14.50m Becomes grey												
					.... 14.75m Becomes red mottled grey and brown												
					.... 15.00m SAND with Gravel and Clay, medium to coarse grained, grey, gravel is fine grained quartz	M											
SPTLS	N=23 10;11,12		16	 16.00m Clayey SAND with Gravel, grey-brown stained orange, medium to coarse grained, gravel is fine grained	M											
			17														
SPTLS	N=17 6;7,10		18														
			19														
				 19.60m SAND with Clay, coarse grained, grey												

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CONTRACTOR	Cairns Drilling Pty Ltd	DRILLED DATE	30-Aug-13
DRILL MODEL	MST 1500	ANGLE	
DRILLER	Mick Bacon (Cairns Drilling)	BEARING	-
		HOLE DIAMETER	()
		GROUND LEVEL	
		LOCATION	409807 E 7928772 N
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DRILLING	STRATA		GROUP SYMBOL	LEGEND	MATERIAL DESCRIPTION	WATER / MOISTURE	CONDITION						OBSERVATION	
	R.L.	DEPTH					CONSISTENCY			SOIL ORIGIN, STRUCTURE, ETC.				
SAMPLE, TEST, BIT, SUPPORT, ETC.	mAHD	m			SOIL TYPE Plasticity / Grain Size, Colour, Minor Components	VS	SL	ST	VST	H	VL	LD	VD	
SPTLS N=24 10;11,13		21	CH	CLAY with Sand (CH) high plasticity, grey mottled red-brown, sand is medium grained, moist. <i>(continued)</i>										ALV
SPTLS N=27 17;15,12		22		.... 20.50m Gravelly Clayey SAND, coarse grained, grey, gravel is fine to medium grained, high quartz content										
		22.45	 22.00m As above, gravel fine to coarse grained Dmax 35mm										
				Borehole completed at 22.45m depth										
		23												
		24												
		25												
		26												
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