

Table 4: Summary of shear strength parameters from tests on undisturbed and remoulded samples (interpolated parameters provided where necessary)

Material	Position	Sample depth [m]	Consistency ^a	Dry density [kg/m ³]	Moisture content [%]	Type of Test ^b	U / R ^c	Total stress parameters		Effective stress parameters	
								ϕ [°]	C [kPa]	ϕ' [°]	C' [kPa]
residual Dwyka tillite	PB 1	1.00 - 5.00	n/a	1877	11.8	SB	R (95%)	34	17		
residual Dwyka tillite (ferruginised) and siltstone	PB 5	0.90 - 4.90	n/a	1914	11.5	CNSU	R (95%)	19	119	31	24
residual Dwyka shale	PB 7	1.50 - 4.10	n/a	1809		CNSU	R (95%)	20	0	30	4
residual Dwyka shale	PB 15	1.80 - 4.80	n/a	1764	16.7	SB	R (95%)	15	62		
residual Dwyka tillite	PB 23	1.40 - 4.30	n/a	1855	13.4	CNSU	R (95%)	21	124	32	18
residual Dwyka tillite	bh 22	1.74 - 2.00	(stiff)	-	-	CNSU	U	20	26	34	13
residual Dwyka shale	bh 30	1.70 - 1.97	(very stiff)	-	-	CNSU	U	17	33	29	19
residual Dwyka tillite	bh 45	3.65 - 4.04	stiff	-	-	CNSU	U	15	13	21	16
residual Dwyka tillite	PB 14	4.10	stiff	1825	13.6	CNSU	U	17	39	32	13
residual Dwyka tillite	bh 21	6.01 - 6.24	very stiff	-	-	CNSU	U			24	10
residual Dwyka shale	bh 64	6.53 - 6.86	(very stiff)	2041	10.5	CNSU	U	29	253	32	141
residual Dwyka tillite	bh 43	9.25 - 9.50	(very stiff)	2073	9.9	CNSU	U	39	40	39	71
residual carbonaceous Dwyka shale	bh 21	27.14 - 27.40	(very stiff)	1833	15.2	CNSU	U	13	192	19	205
<i>tillite bedrock</i>	<i>n/a</i>	<i>n/a</i>	<i>very soft rock</i>	2300		<i>n/a</i>				30	16
residual diabase (sandy)	PB 19	2.00	very dense	1837	11.2	SB	R (100%)*	13	59		
residual diabase (clayey)	PB 18	4.20	firm - stiff	1321	34.63	CNSU	U	6	93	30.1	37
residual diabase (clayey)	bh 41	5.85	stiff	-	-	CNSU	U	17	40	33	16
<i>diabase bedrock</i>	<i>n/a</i>	<i>n/a</i>	<i>very soft rock</i>	2300	-	<i>n/a</i>				26	1000+
residual Rayton shale	PB 8	1.50 - 4.30	n/a	1806	15	SB	R (95%)	26	0		

Notes: a = consistencies in brackets are estimated; b = SB - shear box, CNSU - consolidated soaked undrained (with pore water measurements); c = U - undisturbed sample, R - remoulded sample (Modified AASHTO density) at OMC; n/a - not applicable; * - insitu density. Interpolated parameters in italics².