

Table 5: Factor of Safety (FOS) for various slope configurations								
Figure	Scenario	Profile	Horizo n No.	Thickness [m]	Slope	Perched water table	FOS	Stability classification
4	cutting 15m deep	upper residual tillite	3	6	12°	yes	1.03	marginally stable
		lower residual tillite	2	4	22°			
		very soft/soft rock tillite	1	>10	32°			
5		as above	as above			drained	1.89	safe
6a	15m thick fill	residual tillite engineered to 95% Modified AASHTO density	3	15	32°	yes	1.02	marginally stable
		residual diabase	2	6	n/a			
		diabase bedrock	1	>10	n/a			
6b		residual tillite engineered to 95% Modified AASHTO density	3	15	18°	yes	1.53	safe
		residual diabase	2	6	n/a			
		diabase bedrock	1	>10	n/a			
7		residual tillite engineered to 95% Modified AASHTO density	4	15	32°	no	1.44	safe
		stone column driven into residual diabase using dynamic compaction	3	6	n/a			
		residual diabase	2	6	n/a			
	diabase bedrock	1	>10	n/a				