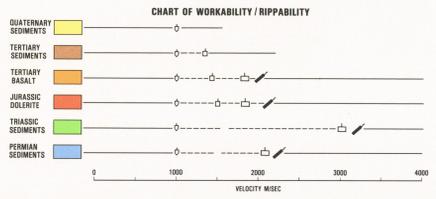


ENGINEERING GEOLOGY GREATER HOBART AREA

MAP 1 P. J. Hofo B.Sc. (Hons.)

SCALE 1 : 25 000
Contour Interval 10 metres

GEODATA PROJECT - jointly funded by the Hobart, Glenorchy, Claremont and Kingborough Councils and the Department of Resources and Energy
This map should be used to provide an indication of the likely nature of soil problems in the material to be excavated in a given project. As such it does not in any way replace the need for particular site inspection by competent specialists.
Geological map produced by the Geospatial Section of the Geological Survey, Division of Mines and Mineral Resources, Hobart.
Copyright by C.A. Hoar and P.S. Nettleton.
Published 1992.
CROWN COPYRIGHT RESERVED



UNIT DESCRIPTION	SOIL DESCRIPTION	SOIL DETAILS				BEDROCK DETAILS			HAZARDS	RESOURCES	SEPTIC TANK SUITABILITY	GROUNDWATER BORE YIELD (l/sec)	GROUNDWATER QUALITY (100 ppm)
		USC	ATC	PL	SL	Bed Thickness (m)	Joint Frequency (1/m)	Seismic Velocity (m/sec)					
QUATERNARY Mixed brown sand shales.	Generally non-susceptible.	SP	100-150	10-20	10-20	< 10	500-1000		Sand	Generally suitable. Caution in areas where sand cover clay part. Possible groundwater contamination in areas of high water table.	0.03-3 (0.4-2400)		
QUATERNARY Black sand, estuarine sand and clay.		SP, SC	0-5*						Sand				
QUATERNARY Alluvium, gravel, sand, clay, fill, reclaimed land.		SP, SC, SC		Non plastic					Sand				
QUATERNARY Rained beach sand.		SP							Sand				
QUATERNARY Stable and mobile dune sand.		SP							Sand				
QUATERNARY Talus, scree and slope deposits. Slope wash material derived development from dolerite and Permian sandstone. Weathering usually inconspicuous.		DP, SC	0-1	Variable	Non plastic		800-1000		Gravel	Potential landslides on steep slopes or unconsolidated soils. Variable permeability possible.	0.3-1 (240-1)	1000-3000 (~1000 Average)	
QUATERNARY Agglomerate, clay, sand and unconsolidated gravelly - SP sediments. Dolerite and sandstone derived material present as late stage landslide deposits.	Variable from thin grey yellow sand to brown sandy clay.	SM, SC, CM	0-3*	Variable	Non plastic	24-60 (22-30)	4-15	80-80	Course Gravel	Sandy and sand siltstone common on cleared slopes.	0.03-1.1 (0.4-8.000)	1000-2000 (~1000 Average)	
QUATERNARY Basalt, fine to coarse grained, and red clay with basal bedders. Weathering may be extensive and variable.	Red brown high plasticity clay/sandy clay, variable thickness, sometimes containing basalt fragments.	CM, CL, CL	0-2*	45-58	15-23	13-16	80-80		Gravel	Potential landslides and soil creep on steep slopes with thick soils. Possible foundation movement due to expansive clays.	0.03-5.6 (0.4-5.000)		
QUATERNARY Dolerite, fine to medium grained, hard, often strongly jointed. Weathering variable, both in vertical and lateral extent - especially in the grained situations.	Brown clay, medium to high plasticity. (Dolerite and type on dolerite). Light brown sandy clay. (This clay may occur after unconsolidated dolerite). Black clay, high plasticity. (This clay may occur after unconsolidated dolerite).	CM, CL, CL, CL, CL	0-1	50-60	27-30	14-23	55-77		Gravel	Potential landslides and soil creep on steep slopes with thick soils. Possible foundation movement due to expansive clays.	0.03-1.0 (0.4-800)	500-1000 (800 Average)	
QUATERNARY Microscopic quartz sandstone, white foliaceous sandstone and micaceous mudstone. Sandstones and shales. Moderate porosity, susceptible to deep weathering. Sandstone bedrock shows deep gradual weathering below steep and fractured.	Yellow grey sand of variable thickness, overlying yellow white sandy clay. Sand fine grained siltstone to mudstone sand. Clay variable thickness. Black, high plasticity clay. May be present where dolerite weathered bedrock.	SP, CM, CL, CL	0-1*	35-51	21-40	2-11	50-80	1-2 (horizontal)	Sand	Beds and sandstone common on cleared slopes.	0.01-0.7 (0.4-500)	100-3000 (~1000 Average)	
QUATERNARY Fine sandstone, coarse siltstone, fossiliferous mudstone, with occasional thin conglomerate and limestone beds. Weathering usually shallow. Fracturing of surface outcrop common. Occasionally deeply weathered to clay.	Variable from thin grey silty sand to gravel. Fine grained thick yellow clayey sandstone, and conglomerate extremely variable over short distances.	SM, CL, CM	0-0.5	21-58	3-40	1-17	50-84	0.2	Gravel	Daily and sandstone, and sandstone common on cleared slopes.	0.25-1.0 (0.4-8.000)	100-2000 (~1000 Average)	

