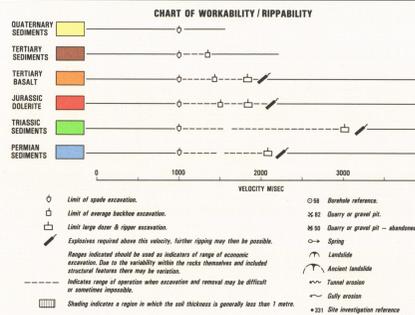


ENGINEERING GEOLOGY GREATER HOBART AREA

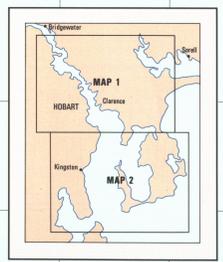
MAP 2
P. J. Hofto B.Sc. (Hons.)



GEODATA PROJECT - Jointly funded by the Hobart, Strathclyde, Clarence 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 investigations by competent specialists.
Geological map production by the Cartographic Section of the Geological Survey, Division of Mines and Mineral Resources, Hobart.
Cartography by C.A. Meach and P.B. Hawkins.
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UNIT DESCRIPTION	SOIL DESCRIPTION	ATTENDERS LIMITS				BEDROCK DETAILS				HAZARDS	RESOURCES	SEPTIC TANK SUITABILITY	GROUNDWATER BORE YIELD (litres/sec)	GROUNDWATER QUALITY (TDS ppm)
		USC	Thickness (m)	Layers	Frequency	Bedrock Thickness (m)	Bedrock Frequency	Bedrock Velocity (m/sec)	Bedrock Dip (degrees)					
QUATERNARY Midbrown sand sheets. Beach sand, estuarine sand and clay. Alluvium, gravel, sand, clay, fill, reclaimed sand. Raised beach sand. Stable and mobile dune sand.	Generally non-existent.	SP SP-SC SP-SC SP	0-1 variable	Non plastic	< 10	800-1500					Sand	Generally suitable. Caution in areas where sands cover clay pans. Possible groundwater contamination in areas of high water table.	0.02-2 (1-2-400)	
QUATERNARY Tails, over and slope deposits. Clay wash material derived downslope from dolerite and Permian sediments. Weathering usually insignificant.	Generally non-existent.	SP-SC	0-1 variable	Non plastic	10-15	800-1500					Gravel	Areas usually suitable due to steep slopes. Some potential in low density residential areas.	0.2-1 (1-200)	1000-5000 (1-2000 Average)
QUATERNARY Agglomerate, clay, sand and cemented gravel - dolerite - 10-200m. Dolerite and agglomerate derived material present as late stage landslide deposits.	Variable from this grey yellow sand to brown sandy claystone.	SM SC	0-2 variable	24-80 (50)	8-40 (22-30)	4-15	80-80				Sand	Gully and tunnel erosion common on cleared slopes.	0.02-1.1 (2-4-2000)	1000-5000 (1-2000 Average)
QUATERNARY Basalt: fine to coarse grained, and red clay with basalt boulders. Weathering may be extensive and variable.	Red brown high plasticity claystone clay, variable thickness, sometimes containing basalt riprap.	CH CI	0-2 variable	45-58 (25-33)	13-16	80-80					Gravel	Areas of high clay content may be unsuitable due to low permeability.	0.02-1.0 (2-4-800)	1000-5000 (1-2000 Average)
QUATERNARY Dolerite: fine to medium grained, hard, often strongly jointed. Weathering variable, such as vertical and lateral erosion - especially in fine grained dolerites.	Brown clay, medium to high plasticity. (Dolerite and clay or dolerite)	CH CI	0-1 variable	50-80 (30-40)	14-23 (20)	5-77					Gravel	Areas of high clay content may be unsuitable due to low permeability. Rock clay outcrops.	0.02-1.0 (2-4-800)	1000-5000 (1-2000 Average)
QUATERNARY Light brown sandy clay. (This clay may occur surrounding dolerite outcrops.)	Light brown sandy clay. (This clay may occur surrounding dolerite outcrops.)	CH CI	0-0.5	30-40	14-23	5-77					Gravel	Areas of high clay content may be unsuitable due to low permeability. Rock clay outcrops.	0.02-1.0 (2-4-800)	1000-5000 (1-2000 Average)
QUATERNARY Black clay, high plasticity. (This clay may occur where dolerite intrudes Triassic sediments.)	Black clay, high plasticity. (This clay may occur where dolerite intrudes Triassic sediments.)	CH CI	0-0.3	30-40	14-23	5-77					Gravel	Areas of high clay content may be unsuitable due to low permeability. Rock clay outcrops.	0.02-1.0 (2-4-800)	1000-5000 (1-2000 Average)
QUATERNARY Micaceous quartz sandstone, white foliaceous dolerite and micaceous dolerite. Dolerite: coarse grained, medium to fine grained. Dolerite: coarse grained, medium to fine grained. Dolerite: coarse grained, medium to fine grained.	Yellow grey sand of variable thickness. (Dolerite and clay or dolerite)	SP CH CI	0-1 variable	30-51 (15)	21-40	1-2 (10)	< 1-2				Sand	Generally suitable. Areas of shallow bedrock or rock with high clay content may be unsuitable. Care with erosion at outcrop.	0.02-0.7 (1-500)	100-5000 (1200 Average)
QUATERNARY Fine sandstone, coarse siltstone, fossiliferous dolerite, with occasional thin claystone nodules, with occasional thin claystone nodules. Fracturing of surface outcrop common. Discontinuously bedded weathered to clay.	Variable from this yellow grey clay sand to gravel. (This weathered thick yellow claystone nodules, with occasional thin claystone nodules. Fracturing of surface outcrop common. Discontinuously bedded weathered to clay.)	SM CI CH	0-0.5 variable	21-40 (14-18)	1-17 (16)	50-84	0.2				Gravel	Generally suitable. Areas of shallow bedrock or rock with high clay content may be unsuitable. Care with erosion at outcrop.	0.02-1.0 (200-800)	100-2000 (1-1000 Average)



LOCATION MAP