



MAP UNIT Ordovician, rolling

SYMBOL Orr

**GENERAL DESCRIPTION**

This map unit occurs extensively around the Cosgrave and Russell Reservoirs. While the majority of it is still forested, approximately 20% is cleared and used for grazing.

These areas are likely to be the focus for hobby farm/bush block development in the area.

Map Unit is	12.0	% study area	Ref. Plate	3.6
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**PARENT MATERIAL**

Ordovician sediments (in situ)		
Depth to rock	>200	cm
Rock outcrop	0	%
Surface stones	0	%
Landslip risk	Nil	
Shrink/swell potential	Moderate	
Northcote code & SCS Ext.	Dy 3.41 – 4/2/10	

**LANDFORM**

Low hills		
Slope-common	10	%
- range	4-15	%
Flood risk	Nil	
Profile drainage	Moderate	
Seasonal watertable	Temporarily waterlogged	
Unified soil group	A	
	B	ML/CH

**EROSION HAZARD**

Low to moderate, generally high for dam spillways.

<b>NATIVE VEGETATION</b>	Messmate, Broad-leaf peppermint	<b>LAND USE</b>	Forestry, grazing
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**PROFILE DESCRIPTION**

0-10 cm Dark brown (10YR 3/3) fine sandy clay loam to clay loam; moderate fine subangular blocky structure; friable when moist, hard when dry; 5% of soil volume as quartz gravel to 10 mm diameter; pH 4½;

Clear transition to:

10-60 cm Dull yellowish orange (10YR 7/4) light clay; apedal massive structure; firm when moist; 1% of soil volume as quartz gravel to 3 mm diameter; pH 5;

Gradual transition to:

60-150 cm Yellowish brown (10YR 5/8) distinctly mottled medium clay; medium clay; medium fine subangular blocky structure; firm when moist; pH 5;

Continuing with depth.

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Capability of the land to support various activities

Capability of the land to support subdivision

ACTIVITY	RATING	MAJOR LIMITING FEATURES OF THE LAND
Building foundations	Fair	Slope, unified soil group
Absorption fields	Fair	Slope
Secondary roads	Fair	Slope; unified soil group
Gravel roads	Fair	Unified soil group; B horizon slakes
Access tracks	Fair	Slope
Shallow excavations	Fair	Slope; perched watertable
Farm dams	Fair (Good)	Slope if <8% slope)
Sewage lagoons	Poor (Fair)	Slope if <8% slope)
Intensive cultivation	Poor	Soil drainage
Path & trails	Fair (Good)	Slope if <8% slope)

SUBDIVISION TYPE	RATING	MAJOR LIMITING ACTIVITIES
Urban (sewered)	Fair	All relevant activities
Bush Blocks (4 ha)	Fair	All relevant activities
Small Farmlets (4 ha)	Fair	All relevant activities
Large Farmlets (16 ha)	Good	
Effect of subdivision on the town water supply		
<b>URBAN</b>		Extensive soil disturbance associated with development will be temporary source of turbidity and/or sediment. Increased hard surfacing (roofing and roads) will increase peak runoff which may result in an erosion hazard where surface runoff is discharged.
<b>FARMLETS</b>		As for urban, with the additional hazards to water supply of erosion due to clearing operations and overgrazing of small allotments.
<b>BUSH BLOCKS</b>		As for urban. The risk of unsatisfactory operation of septic tanks is reduced if the absorption field is timbered.