

#### **4. SUMMARY OF THE CAPABILITY RATINGS**

The following tables and maps summarise the capability ratings of the land for intensive cultivation and for residential use.

Detailed descriptions of each map unit and its capability for each activity and type of residential use considered are contained in Appendix I.

A photomap of the study area and its map units is inside the back cover of this report. Additional copies of the map may be obtained on request to the Soil Conservation Authority, 378 Cotham Road, Kew, Victoria, 3101.

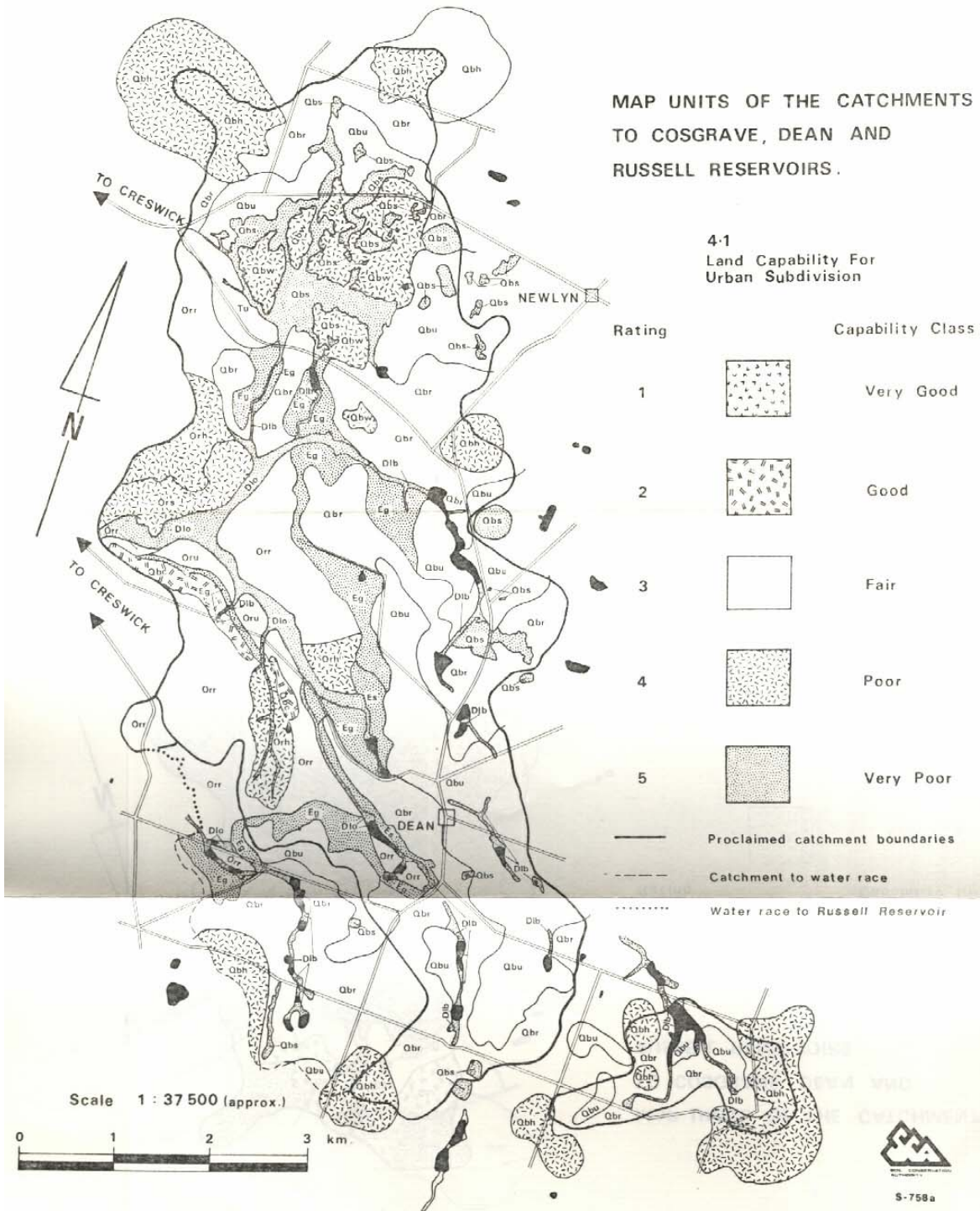
CAPABILITY OF THE LAND FOR: **URBAN SUBDIVISION**

building foundations, shallow excavations, secondary roads

SYMBOL	MAP UNIT	% of Study Area	RATING	Land features which affect the	
				ACTIVITY	TOWN WATER SUPPLY
Tu	Tertiary, undulating	1.2	Fair	Soil drainage: access, construction	
Qbu	Quaternary basalt, undulating	20.2	Fair	Shrink—swell: roading and building foundations	
Qbc	Quaternary basalt, cap	0.8	Good	Shrink—swell: roading and building foundations	
Qbs	Quaternary basalt, swampy	4.9	Very poor	Site drainage: all activities	
Qbw	Quaternary basalt, wet	3.7	Poor	Soil drainage: roading and construction	
Qbr	Quaternary basalt, rolling	32.0	Fair	Shrink—swell: roading and construction	
Qbh	Quaternary basalt, hilly	6.5	Poor	Slope: roading, layout, construction	
Oru	Ordovician, undulating	0.8	Fair	Soil drainage: access and construction	Proximity to reservoir
Orr	Ordovician, rolling	12.0	Fair	Slope: access, layout and construction	Slope: erosion during construction
Orh	Ordovician, hilly	3.4	Poor	Slope: access, layout and construction	Slope: erosion of exposed subsoil
Ors	Ordovician, steep	1.8	Poor	Slope: access, layout and construction	Slope: erosion of bare soil
Eg	Escarpment, gentle	6.8	Very poor	Soil drainage: access and construction	Proximity to reservoir Proximity to streams
Es	Escarpment, steep	1.0	Very poor	Slope: access, layout, construction	Slope: erosion of bare soil
Dlb	Drainage line, basalt	2.2	Very poor	Permanently wet: all activities	Stream bank erosion
Dlo	Drainage line, ordovician	3.1	Very poor	Site drainage, flooding all activities	Stream bank erosion

**MAP UNITS OF THE CATCHMENTS  
TO COSGRAVE, DEAN AND  
RUSSELL RESERVOIRS.**

**4-1  
Land Capability For  
Urban Subdivision**

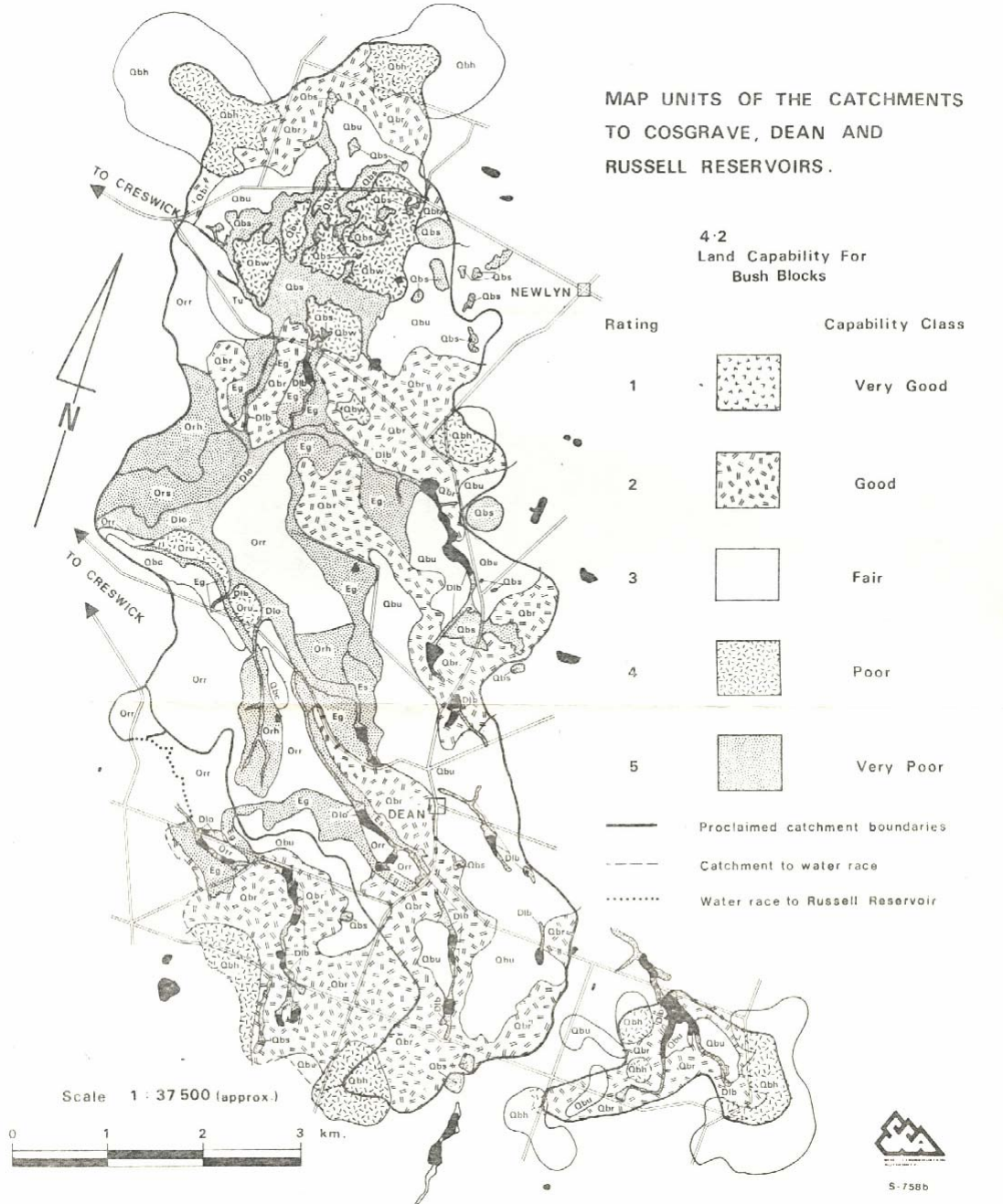


CAPABILITY OF LAND FOR: **BUSH BLOCKS**

building foundations, absorption fields, gravel roads, access tracks

SYMBOL	MAP UNIT	% of Study Area	RATING	Land features which affect the	
				ACTIVITY	TOWN WATER SUPPLY
Tu	Tertiary, undulating	1.2	Fair	Soil drainage: access	Soil drainage: effluent disposal
Q b U	Quaternary basalt, undulating	20.2	Fair	Shrink-swell: building foundations	
Qbc	Quaternary basalt, cap	0.8	Fair.	No uncleared areas	
Qbs	Quaternary basalt, swampy	4.9	Very poor	Shrink-swell: building foundations No uncleared areas	Site drainage: effluent disposal
Qbw	Quaternary basalt, wet	3.7	Poor	Site drainage: all activities	
Qbr	Quaternary basalt, rolling	32.0	Good	Soil drainage: access and construction	Soil drainage: effluent disposal
Qbh	Quaternary basalt, hilly	6.5	Poor	Few uncleared areas	
Oru	Ordovician, undulating	0.8	Poor	Shrink-swell: building foundations	
Orr-	Ordovician, rolling	12.0	Fair	No uncleared areas	Soil drainage: effluent disposal
Orh	Ordovician, hilly	3.4	Poor	Slope: access, layout and construction	Proximity to reservoir
Ors	Ordovician, steep	1.8	Very poor	Soil drainage: access and construction	Slope: erosion during construction
Eg	Escarpment, gentle	6.8	Very poor	Slope: access and construction	Slope: erosion of exposed clay, effluent disposal
Es	Escarpment, steep	1.0	Very poor	Soil drainage: access and construction	Slope: erosion of bare soil, effluent disposal
Dlb	Drainage line, basalt	2.2	Very poor	Few uncleared areas	Proximity to reservoir
Dlo	Drainage line, ordovician	3.1	Very poor	Slope: access, layout and construction	Soil drainage: effluent disposal
				Few uncleared areas	Proximity to streams
				Permanently wet: all activities	Slope: erosion of bare soil, effluent disposal
				Site drainage, flooding: all activities	Site drainage: effluent disposal
					Stream bank erosion
					Stream bank erosion

MAP UNITS OF THE CATCHMENTS  
TO COSGRAVE, DEAN AND  
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CAPABILITY OF LAND FOR: **SMALL FARMLETS**

building foundations, absorption fields, gravel roads, access tracks, farm dams

SYMBOL	MAP UNIT	% of Study Area	RATING	Land features which affect the	
				ACTIVITY	TOWN WATER SUPPLY
Tu	Tertiary, undulating	1.2	Poor	Soil drainage: access and construction	Soil drainage: effluent disposal
Qbu	Quaternary basalt, undulating	20.2	Fair	Shrink-swell: building foundations Rapid percolation: farm dams	
Qbc	Quaternary basalt, cap	0.8	*Poor	Rapid percolation, depth to rock: dams	
Qbs	Quaternary basalt, swampy	4.9	Very poor	Site drainage: all activities	Site drainage: effluent disposal
Qbw	Quaternary basalt, wet	3.7	Poor	Soil drainage: access and construction Thin clay layer: farm dams	Soil drainage: effluent disposal
Qbr	Quaternary basalt, rolling	32.0	Fair	Rapid percolation: farm dams Shrink-swell: building foundations	
Qbh	Quaternary basalt, hilly	6.5	Very poor	Slope: layout, access and farm dams Rapid percolation: farm dams	
Oru	Ordovician, undulating	0.8	Poor	Soil drainage: access and construction	Soil drainage: effluent disposal Proximity to reservoir
Orr	Ordovician, rolling	12.0	Fair	Slope: access and construction	Slope: erosion during construction
Orh	Ordovician, hilly	3.4	Poor	Slope: access and construction Depth to rock: farm dams	Slope: erosion of exposed clay
Ors	Ordovician, steep	1.8	Very poor	Slope: access, layout and construction Depth to rock: farm dams	Slope: erosion of bare soil Proximity to reservoir
Eg	Escarpment, gentle	6.8	Very poor	Soil drainage: access and construction	Soil drainage: effluent disposal
Es	Escarpment, steep	1.0	Very poor	Slope: access, layout, construction, dams	Slope: erosion of bare soil, effluent disposal
Dlb	Drainage line, basalt	2.2	Very poor	Permanently wet: all activities	Site drainage: effluent disposal Stream bank erosion
Dlo	Drainage line, ordovician	3.1	Very poor	Site drainage, flooding: all activities	Site drainage: effluent disposal Stream bank erosion

\* If a farm dam is not required, the rating is Fair, the major limiting land feature on ACTIVITY is a Shrink-swell: building foundation





CAPABILITY OF THE LAND FOR: **LARGE FARMLETS**

Building foundations, absorption fields, farm dams, access tracks

SYMBOL	MAP UNIT	% of Study Area	RATING	Land features which affect the	
				ACTIVITY	TOWN WATER SUPPLY
Tu	Tertiary, undulating	1.2	Fair	Soil drainage: access	
Q b U	Quaternary basalt, undulating	20.2	Fair	Rapid percolation: farm dams Load bearing capacity when wet	
Qbc	Quaternary basalt, cap	0.8	Fair	Depth to rock: farm dams Load bearing capacity when wet	
Qbs	Quaternary basalt, swampy	4.9	Very poor	Site drainage: all activities	Site drainage: effluent disposal
Qbw	Quaternary basalt, wet	3.7	Poor	Thin clay layer: farm dams Soil drainage: access and construction	Soil drainage: effluent disposal
Qbr	Quaternary basalt, rolling	32.0	*Fair	Rapid percolation: farm dams Load bearing capacity when wet	
Qbh	Quaternary basalt, hilly	6.5	Very poor	Slope: access, layout, farm dams Rapid percolation: farm dams	
Oru	Ordovician, undulating	0.8	Fair	Soil drainage: access and construction	Soil drainage: effluent disposal Proximity to reservoir
Orr-	Ordovician, rolling	12.0	Good	Slope: construction, farm dams	Slope: effluent disposal, erosion during construction
Orh	Ordovician, hilly	3.4	Poor	Slope: layout and construction	Slope: effluent disposal, erosion of exposed clay
Ors	Ordovician, steep	1.8	Very poor	Slope: layout access and construction	Slope: effluent disposal, erosion of bare soil
Eg	Escarpment, gentle	6.8	Very poor	Soil drainage: all activities	Soil drainage: effluent disposal Proximity to streams
Es	Escarpment, steep	1.0	Very poor	Slope: access, construction, farm dams	Slope, depth to rock: effluent disposal
Dlb	Drainage line, basalt	2.2	Very poor	Permanently wet: all activities	Site drainage: effluent disposal Stream bank erosion
Dlo	Drainage line, ordovician	3.1	Very poor	Site drainage, flooding: all activities	Site drainage: effluent disposal Stream bank erosion

\* If a farm dam is not required, the rating is Good, the major limiting land feature on ACTIVITY is Shrink-swell: building foundations





CAPABILITY OF THE LAND FOR: **INTENSIVE CULTIVATION**

row crops, short rotation, cultivation down the slope, mechanical weed control

SYMBOL	MAP UNIT	% of Study Area	RATING	Land features which affect the	
				ACTIVITY	TOWN WATER SUPPLY
Tu	Tertiary, undulating	1.2	Poor	Soil drainage: timing of cultivation Shallow arable layer	
Q b U	Quaternary basalt, undulating	20.2	Very good		
Qbc	Quaternary basalt, cap	0.8	Very good		
Qbs	Quaternary basalt, swampy	4.9	Very poor	Site drainage: access and timing of cultivation	
Qbw	Quaternary basalt, wet	3.7	Poor	Soil drainage: timing of cultivation	
Qbr	Quaternary basalt, rolling	32.0	Very good		
Qbh	Quaternary basalt, hilly	6.5	Poor	Slope: ease of cultivation	
Oru	Ordovician, undulating	0.8	Poor	Soil drainage: access and timing of cultivation	Proximity to reservoir
Orr-	Ordovician, rolling	12.0	Poor	Soil drainage: timing of cultivation	
Orh	Ordovician, hilly	3.4	Very poor	Shallow arable layer	
Ors	Ordovician, steep	1.8	Very poor	Slope: ease of cultivation Shallow arable layer	Slope: risk of erosion
Eg	Escarpment, gentle	6.8	Poor	Soil drainage: timing of cultivation	Proximity to streams
Es	Escarpment, steep	1.0	Very poor	Slope: ease of cultivation	Slope: risk of erosion
Dlb	Drainage line, basalt	2.2	Very poor	Permanently wet	Stream bank erosion
Dlo	Drainage line, ordovician	3.1	Very poor	Site drainage: access and timing of cultivation	Stream bank erosion

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