Rises

LAND UNIT 2.12

Charles River Gneiss Rises

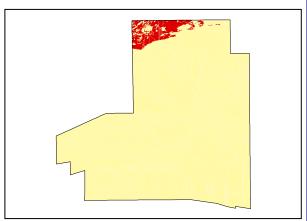
DESCRIPTION: Low rises of Charles River Gneiss with Witchetty Bush and Mulga over sparse annual and

perennial grasses.

SITES: 002, **009**, 010, 014



Distribution of land unit.



Area = 11.45 km^2 , 3.48% of mapped area.

LAND CAPABILITY:

ATTRIBUTES		
SLOPE (%)	15	
RELIEF (m)	60	
SOIL DEPTH (m)	0.05	
SURFACE CONDITION	Loose. trace cryptogram crust	
DEPTH TO SUBSTRATE (m)	0.05	
REACTION TREND (pH)	7.0	
OUTCROP (%)	85	
RUNOFF	Rapid	
PERMEABILITY	Moderately permeable	
DRAINAGE	Well drained	
SALINITY (μs/cm)	33.2	

DEVELOPMENT RISKS		
EROSION	Slight	
ROCK FALL	Slight	
SHEET FLOODING	None	
INUNDATION	None	
SALINITY	None	
ALKALINITY	None	
ACIDITY	None	

CAPABILITY CLASS					
Formed Roads	Shallow excavations	Septic Disposal	Horticulture	Building Foundations	Landscaping
Fair	Very Poor	Very Poor	Very Poor	Good	Poor

Rises

TECHNICAL DETAILS

LAND UNIT 2.12

DESCRIPTION: Rises of Charles River Gneiss with Witchetty Bush and Mulga over sparse annual and

perennial grasses.

GEOLOGY: Early Proterozoic in age. Metamorphic unit of the Arunta Block in the northern part of the

municipality and truncated by the east west trending Charles River Fault.

LANDFORM: The Undulating Low Hills of this land unit generally have a lower relief (60m) than the

surrounding region with slopes to 15%. The area forms the northern portion of the Todd River

catchment and is transected by multiple integrated drainage channels.

SOIL: Example from Site 009

MGA. Coords: 7385128mN, 382436mE.

CLASSIFICATION: Lithosol. Rudosol - RU, CY, CZ, AR, H, K, T

SURFACE: 40% 20-60mm coarse subangular tabular gravelly gneiss and 10% 60-200mm subangular tabular

gneiss cobbles. Soil formation is broad and shallow on flatter areas and minimal on slopes.

DEPTH	HORIZON	TEXTURE	рН	SALINITY	OTHER DETAILS
(m)				(μs/cm)	
0.00 - 0.05	A1	Clayey sand (CS)	7.0	33.2	Dark brown (7.5YR3/4). 20% 2-6mm fine gravelly angular quartz fragments. 5% 6-20mm medium angular quartz and tabular gneiss fragments. Apedal with single grain incoherent structure.

VEGETATION: Site 252 (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Absent				
Dominant species				
Other species				
MID STRATUM - Isolat	ted shrubs			
Dominant species	Mulga.			
Other species	Witchetty Bush, Silver Cassia.			
LOWER STRATUM - Open heath				
Dominant species				
Other species	Dwarf Lantern Flower, Wild Hops, Bogan Flea, Woolly Cloak Fern, Tickweed, Cotton Panic Grass, Tropical Speedwell, <i>Heliotropium sp.</i> (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Green Peppercress, Boggabi, Flat-awned Threeawn, Tar Vine & Yipa, Buffel Grass, Rock Fern, Ruby Saltbush, Woollyoat Grass, Mountain Wanderrie, Sticky Indigo, Munyeroo, Large Green Pussytail, Crimson Foxtail, Downy Thread-petal &/or Narrow Thread-petal, <i>Tephrosia supina</i> , Cattle Bush, Cobbler's Pegs, Lemonscented Grass, Silver Indigo, Birdsville Indigo, Striped Mintbush, Silver Sida, Potato Bush.			

(See Appendix 3 for botanical names)