

Mountains, Hills and Ranges

LAND UNIT 1.11

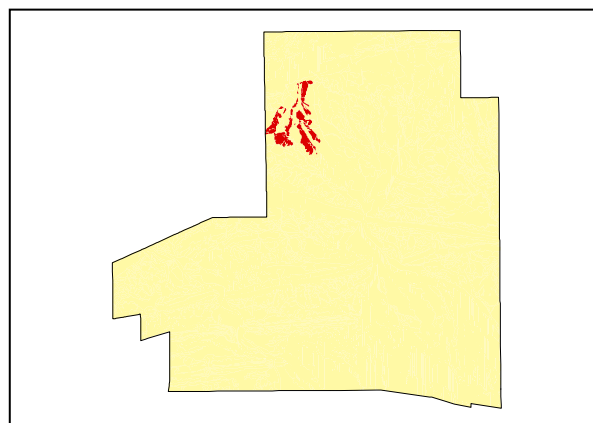
Amphibole Rich Teppa Hill Metamorphics

DESCRIPTION: Hills and Ranges of Amphibole rich Teppa Hills Metamorphics with Mulga over forbs and annual grasses.

SITES: 023, 034, 042



Distribution of land unit.



Area = 2.92 km². 0.95% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	40
RELIEF (m)	50
SOIL DEPTH (m)	0.05
SURFACE CONDITION	Loose
DEPTH to SUBSTRATE (m)	0.05
REACTION TREND (pH)	9.0
OUTCROP (%)	90
RUNOFF	Rapid
PERMEABILITY	Highly permeable
DRAINAGE	Rapidly drained
SALINITY (µs/cm)	149.4

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

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

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TECHNICAL DETAILS**LAND UNIT 1.11**

DESCRIPTION: An Amphibole rich ridges within the Teppa Hills Metamorphic ranges

GEOLOGY: This land unit forms a broad arc within the Teppa Hills Metamorphics unit that is within the Early Proterozoic, Hayes Metamorphic Complex. The 200m wide lithologic unit is characterised by an increased proportion of amphibolite in a fine to coarse-grained gneiss and schist textured formation.

LANDFORM: The Steep Low ridges of this land unit have a relief of 50m with slopes up to 40%. A loose, stony surface enables rapid runoff, high permeability and moderate drainage. The gneissic and schistose characteristics of the formation give rise to occasional jagged ridges with a high percentage of substrate visible.

SOIL: Example from **Site 042**.
MGA. Coords: 7381246mN, 380701mE

CLASSIFICATION: Lithosol. Rudosol - RU, CY, CZ, BC I, L, T.

SURFACE: 60% 60-200mm subrounded gravelly quartz fragments and 10% 200-600mm subangular stony quartz and gneiss fragments. Soil depth varied from 0 to 0.20m in some areas. Surface material was generally evenly sized with no observable boulder sized fragments.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{s/cm}$)	OTHER DETAILS
0.00 - 0.05	A1	Sandy loam (SL)	9.0	149.4	Dark Brown (7.5YR3/3) 5% 6-20mm subangular, medium gravelly, quartz fragments and 20% 2-6mm subangular, fine gravelly, quartz fragments. Calcium carbonate cutans were observed coating amphibolite fragments. Some carbonate cementing was observed in residual soil material.

VEGETATION: **Site 73** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Open Woodland	
Dominant species	
Other species	Mulga, Whitewood, Supplejack.
MID STRATUM - Woodland	
Dominant species	
Other species	Witchetty Bush, Dead Finish, Wild Orange, Rock Fuchsia Bush, Native Fuchsia, Long-leaf Corkwood, Silver Cassia, Dense Cassia, Desert Cassia.
LOWER STRATUM - Isolated clump of tussock grasses	
Dominant species	Buffel Grass,
Other species	Dwarf Lantern Flower, Wild Hops, Hill Sunray, Flat-awned Threeawn, Woolly Cloak Fern, Mulga Fern, Hill Everlasting, Cotton Panic Grass, Ruby Saltbush, Purplehead Nineawn, Woollyoat Grass, Mountain Wanderrie, Tropical Speedwell, <i>Heliotropium</i> sp. (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Orange Spade Flower, <i>Indigofera</i> A86365 Macdonnell Ranges, Silver Indigo, Green Peppercross, Veined Peppercross, Velvet Hibiscus, Buck Bush, Plumbush, Tall Copper Burr, Hill Sida, Kangaroo Grass, Native Tobacco, Striped Mintbush, Large Green Pusstail, Yellow Tails, Silver Tails, Tall Saltbush.

(See Appendix 3 for botanical names)