

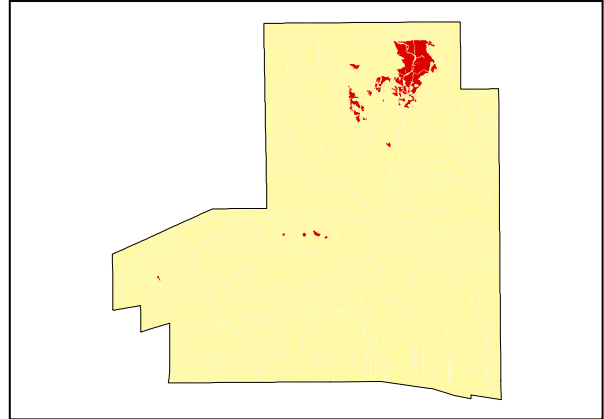
Rises

LAND UNIT 2.04
Alice Springs Granite Rises

DESCRIPTION: Rises and Low Hills of Alice Springs Granite with Witchetty and Fuchsia Bush over annual and perennial grasses.

SITE: 137

Distribution of land unit.



Area = 5.56 km², 1.69% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	15
RELIEF (m)	25
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Loose
DEPTH TO SUBSTRATE (m)	0.10
REACTION TREND (pH)	7.0
OUTCROP (%)	50
RUNOFF	Very rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Rapidly drained
SALINITY (µs/cm)	71.2

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

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

Rises

TECHNICAL DETAILS**LAND UNIT 2.04**

DESCRIPTION: Low rises and hills of Alice Springs Granite with Witchetty and Fuchsia Bush over annual and perennial grasses.

GEOLOGY: Middle Proterozoic Alice Springs Granite with dominant muscovite and biotite.

LANDFORM: Rolling rises with a relief of 25m and slopes to 15%. Large floating boulders and detrital granitic stony material enable rapid runoff with moderate permeability through the remnant clayey sand soil. Extensive outcrop of fractured granite enables rapid drainage. Soil formation is limited to areas protected from erosion and rapid runoff by large granite boulders and small tors.

SOIL: Example from **Site 137**.
MGA. Coords: 7381683mN, 383835mE

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

SURFACE: 2% >2m subangular to subangular tabular large granite boulders and 30% 200-600mm subangular granite stones. Rounded granite substrate covers 50% of the surface area.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A1	Clayey sand (CS)	7.0	71.2	Reddish brown (5YR4/4) 40% 2-6mm subangular fine gravelly granite and quartz fragments. 5% 6-20mm subangular medium gravelly granite fragments. Apedal single grain structure with a sandy fabric.

VEGETATION: **Site 120** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Isolated clumps of trees	
Dominant Species	
Other Species	Whitewood, Blunt-leaf Cassia, Mulga, Bloodwood, Long-leaf Corkwood
MID STRATUM - Isolated shrubs	
Dominant species	
Other species	Witchetty Bush, Rock Fuchsia Bush, Silver Cassia, Dead Finish, Native Fuchsia,
LOWER STRATUM - Isolated forbs	
Dominant species	
Other species	Cotton Panic Grass, Woollyoat Grass, Tall Copper Burr, Five-minute Grass, Dwarf Lantern Flower, Wild Hops, Bunched Kerosene Grass, Buffel Grass, Woolly Cloak Fern, Ruby Saltbush, Mountain Wanderrie, Tropical Speedwell, Eight Day Grass, <i>Heliotropium</i> sp. (one or both of <i>H.cunninghamii</i> & <i>H.tanythrix</i>), Orange Spade Flower, Silver Indigo, Low Bluebush, Striped Mintbush, Large Green Pusstail, Crimson Foxtail, Buck Bush, <i>Senna artemisioides</i> subsp. <i>alicia</i> , Red Spinach, Dolomite Daisy, Hill Everlasting, Tickweed, Pitted Lovegrass, Woolly Glycine, <i>Indigofera</i> A86365 <i>Macdonnell Ranges</i> , Sticky Indigo, Green Peppergrass, Tall Saltbush, Silver Sida, Hill Thread-petal.

(See Appendix 3 for botanical names)