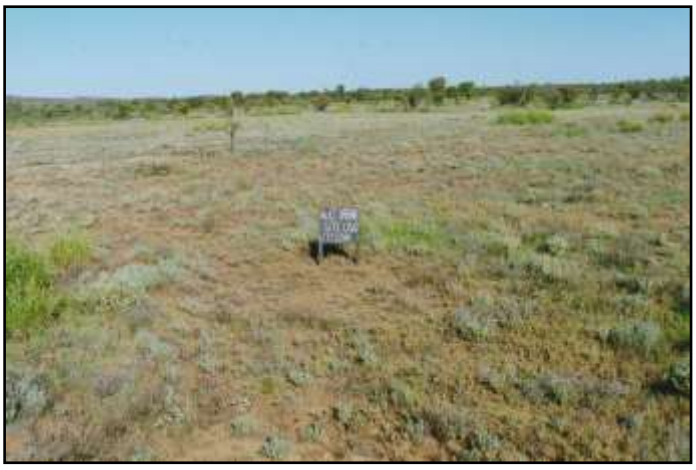
Plains

LAND UNIT 4.02

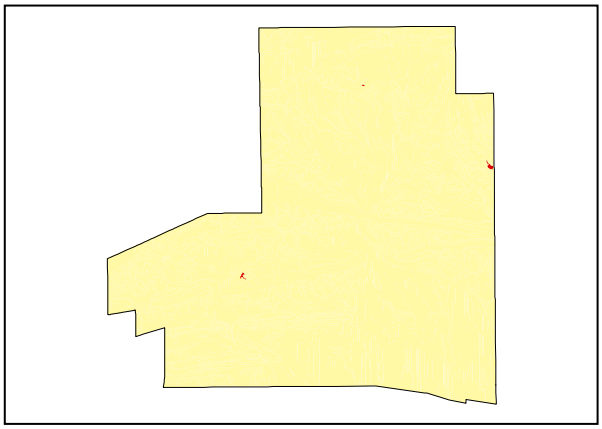
Alluvial Fan

DESCRIPTION: Broad (100m wide) alluvial fan mostly with isolated shrubs over Goathead Burr and sparse grasses.

SITE: **050**



Distribution of land unit.



Area = 0.13 km^2, 0.04% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	3
RELIEF (m)	3
SOIL DEPTH (m)	1.40
SURFACE CONDITION	Soft. Surface Crust in parts.
DEPTH TO SUBSTRATE (m)	>1.40
REACTION TREND (pH)	6.0 to 8.0
OUTCROP (%)	-
RUNOFF	Moderately rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Moderately well drained
SALINITY (µs/cm)	41.4 to 1342

DEVELOPMENT RISKS	
EROSION	High
ROCK FALL	None
SHEET FLOODING	Severe
INUNDATION	Severe
SALINITY	0.00m - 0.80m Very good. 0.80m - 1.40m Poor.
ALKALINITY	Moderate at depth
ACIDITY	None

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

Plains

TECHNICAL DETAILS — LAND UNIT 4.02

DESCRIPTION: Broad (100m wide) alluvial fan mostly with isolated shrubs over Goathead Burr and sparse grasses.

GEOLOGY: Quaternary, possibly Holocene, sands and clays forming a broad alluvial deposit.

LANDFORM: Large gently inclined to level element with radial slope lines inclined away from a point, resulting from aggradation, or occasionally from erosion, by channelling, often braided, stream flow, or possibly by sheet flow (McDonald R.C. *et al*. 1990). Each alluvial fan has shallow (<30cm), broad (5-10m) internal distributary drainage channels that are relict in some areas, due to established vegetation, and appear to be active on other areas where there are signs of recent sediment deposition from sheet flow.

SOIL: Example from **Site 050**
MGA. Coordinates: 7378279mN, 391884mE

CLASSIFICATION: Red-brown Earths. Kandosol - KA, AA, AG, CD, C, F, K, M, X

SURFACE: 2% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm medium gravelly angular quartz fragments. Surface condition is generally soft with some surface crusting in areas.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A11	Clayey sand (CS)	6.0	41.4	Dark brown (7.5YR3/2). 3% 2-6mm fine gravelly angular quartz fragments. Massive apedal structure with no effervescence.
0.10 - 0.30	A12	Clayey sand (CS)	7.0	53.3	Dark brown (7.5YR3/3). 3% 2-6mm fine gravelly angular quartz fragments. Massive apedal structure with no effervescence.
0.30 -0.50	A13	Clayey sand (CS)	7.5	79.8	Dark brown (7.5YR3/3). 3% 2-6mm fine gravelly angular quartz fragments. Massive apedal structure with no effervescence.
0.50 - 0.80	B1	Sandy loam (SL)	7.5	377	Dark brown (7.5YR3/2). 3% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm medium gravelly angular quartz fragments. Massive apedal structure with no effervescence.
0.80 - 1.20	B21	Sandy loam (SL)	7.5	1120	Dark reddish brown (5YR3/3). 3% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm medium gravelly angular quartz fragments. Massive apedal structure with no effervescence.
1.20 - 1.40	B22	Sandy Clay loam (SCL)	8.0	1342	Dark reddish brown (5YR3/3). 3% 2-6mm fine gravelly angular quartz fragments and 2% 6-20mm medium gravelly angular quartz fragments. Massive apedal structure with no effervescence.

VEGETATION: **Site 050** (Albrecht, D. & Pitts, B. 1999).

UPPER STRATUM - Absent	
Dominant species	
Other species	
MID STRATUM - Absent	
Dominant species	
Other species	
LOWER STRATUM - Isolated forbs	
Dominant species	Harlequin Fuchsia-bush, Goathead Burr,
Other species	Buffel Grass, Succulent Copper Burr, Spreading Saltbush, Yellow Billybuttons, Rat Tails, Tomato Plant, Mulga Trefoil, Woollyoat Grass, Sand Sunray, Silky Browntop, *Schoenia ayersii*, *Sida laevis*, Poison Peach, Hairy Armgrass.

(See appendix 3 for botanical names)