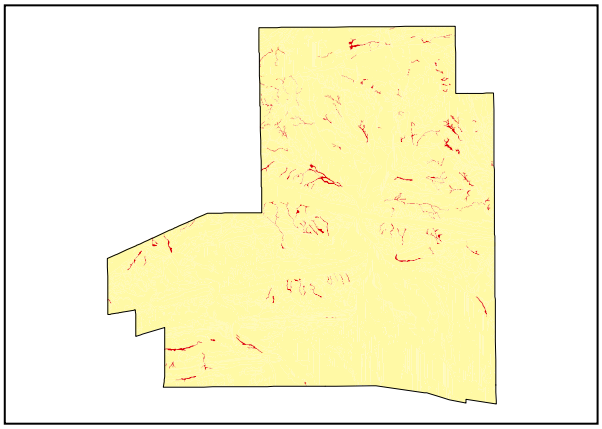
Drainage Features

LAND UNIT 5.06

Confined Drainage Floor

DESCRIPTION: Confined drainage floors (10-20m wide) with Ironwood and Mulga over Buffel Grass.
SITE: **059**

Distribution of land unit.



Area = 4.42 km^2, 1.34% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	1
RELIEF (m)	1
SOIL DEPTH (m)	>1.70
SURFACE CONDITION	Firm
DEPTH TO SUBSTRATE (m)	>1.70
REACTION TREND (pH)	7.0
OUTCROP (%)	-
RUNOFF	Rapid
PERMEABILITY	Moderately permeable
DRAINAGE	Imperfectly drained
SALINITY (µs/cm)	32.0 to 127.2

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

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

Drainage Features

TECHNICAL DETAILS — LAND UNIT 5.06

DESCRIPTION: Confined drainage floor (10-20m wide) of Ironwood and Mulga over Buffel Grass. This land unit usually drains land units 5.07 and 5.08.

GEOLOGY: An accumulation of Quaternary, most likely Holocene, sediments eroded and transported from the high relief Proterozoic and Palaeozoic hills and ranges form this land unit.

LANDFORM: This land unit is a broad tributary drainage floor. It is characterised by frequently active erosion and aggradation by channelled or overbank stream flow. It is generally restricted to narrow valley floors into which runoff water is channelled. In this particular example, depositional variations during flood events are evident visually and by the profile texture. These floors are generally 10-20m wide and up to 7km in meandering length. Bedload channels are occasionally present within this land unit and are up to 15m in width.

SOIL: Example **Site 059**
MGA. Coordinates: 7377364mN, 382953mE

CLASSIFICATION: Desert Loam. Kandosol - KA, AA, AH, CD, A, E, M, M, X

SURFACE: Firm, coherent mass of individual particles or aggregates with occasional loose aggregates that separate when touched. In areas confined to valley floors, the surface is generally substrate material.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A1	Clay loam, sandy (CLS)(F)	7.0	69.6	Dark reddish brown (5YR3/4). 1% 2-6mm fine gravelly angular quartz fragments. Massive apedal structure. Non-effervescent.
0.10 - 0.40	A1	Clay loam, sandy (CLS)(F)	7.0	36.4	Dark reddish brown (5YR3/4). 2% 2-6mm fine gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.
0.40 - 0.60	B1	Sandy clay loam (SCL)(F)	7.0	45.8	Dark reddish brown (5YR3/4). 2% 2-6mm fine gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.
0.60 - 1.00	B21	Clay loam (CL)	7.0	36.2	Dark reddish brown (5YR3/4). 1% 2-6mm fine gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.
1.00 - 1.30	D1	Sandy loam (SL)(K)	7.0	127.2	Dark reddish brown (5YR3/4). 40% 2-6mm fine gravelly angular quartz fragments and 10% 6-20mm medium gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.
1.30 - 1.50	D2	Sandy clay loam (SCL)(F)	7.0	32.0	Dark reddish brown (5YR3/4). 10% 2-6mm fine gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.
1.50 - 1.70	D3	Sandy loam (SL)(K)	7.0	32.2	Dark reddish brown (5YR3/4). 45% 2-6mm fine gravelly angular quartz fragments and 5% 6-20mm medium gravelly angular quartz fragments. Weak 5-10mm polyhedral structure. Non-effervescent.

VEGETATION: **Site 113** (Albrecht, D. and Pitts, B. 1999).
In the absence of invasion by exotic grasses, this land unit usually supports an annual grassland of Oat, Woolyoat and Mulga grass.

UPPER STRATUM - Open Woodland	
Dominant species	
Other species	Ironwood, Ghost Gum, River Red Gum, Beefwood, Whitewood
MID STRATUM - Sparse shrubland	
Dominant species	
Other species	Mulga, Witchetty Bush, Climbing Saltbush, Ruby Saltbush, Acacia Bush, Ironwood Mistletoe, Trefoil Rattlepod, Yellow Rattlepod, Silver Cassia.
LOWER STRATUM - Sparse grassland	
Dominant species	Buffel Grass, Couch Grass,
Other species	Wild Hops, one or both of Tar Vine & Yipa, Yellow Billybuttons, Cotton Panic Grass, Silky Browntop, Woolly Glycine, Natal Red Top, Apple Bush, Pale-leaf Mistletoe, Wire-leaf Mistletoe, *Aristida arida*, Annual Saltbush, Variable Daisy, Wild Turnip, Small Yellow Button, Colocynth, Tickweed, Australian Bindweed, Woollyoat Grass, Pitted Lovegrass, Caustic Bush, Tropical Speedwell, Birdsville Indigo, Mueller's Peppercress, Harlequin Mistletoe, Buckbush, Tall Copper Burr, Sticky Blue-rod, Desert Chinese Lantern, Boggabi, *Amyema gibberula var. gibberula*, *Boerhavia repleta*, Black Crumbweed, *Dysphania glomulifera subsp. eremaea*, Caustic Weed (A), Sticky Indigo, Hill Sticky Hopbush, Green Peppercress, Malvastrum, Bush Banana, Velvet Hibiscus, Natal Red Top, Head-ache Vine, Native Millet, *Pluchea dunlopii*, Fruit-salad Bush, Tall Saltbush, Slender Spurge,

(See Appendix 3 for botanical names)