Plains

## LAND UNIT 4.10 Broad Clay Flats

DESCRIPTION:Broad Clay flats of Needlewood and Cottonbush.SITES:047, 089



## LAND CAPABILITY:

ATTRIBUTES				
SLOPE (%)	1.0			
RELIEF (m)	1.0			
SOIL DEPTH (m)	>1.60			
SURFACE CONDITION	Cryptogram.			
DEPTH TO SUBSTRATE (m)	>1.60			
REACTION TREND (pH)	7.0 to 9.5			
OUTCROP (%)	-			
RUNOFF	Very slow			
PERMEABILITY	Very slowly permeable			
DRAINAGE	Poorly drained			
SALINITY (μs/cm)	35 to 2200			

## Distribution of land unit.



Area =  $1.54 \text{ km}^2$ , 0.47% of mapped area.

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

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

Plains		Land Resource Capabi	ility Asse	ssment in the Alio	ce Springs Area	
TECHNIC	AL DETAI	L DETAILS			LAND UNIT 4.10	
DESCRIPTION	: Broad clay	Broad clay flats with Needlewood over Cottonbush.				
GEOLOGY:	Mostly an Proterozoi	Mostly an accumulation of Quaternary detrital material derived from a Palaeozoic and / or a Proterozoic source.			derived from a Palaeozoic and / or a	
LANDFORM: SOIL: CLASSIFICAT SURFACE: So	ANDFORM: This land unit is a playa - a large, shallow, level-floored closed depression, intermitt bounded as a rule by flats aggraded by sheet flow and channelled stream flow ( <i>Mc</i> 1990). Water would enter the area as sheet flow carrying the finer fraction of soil, he characteristics. Run-off from the area is into the nearby creek system. Drainage and poor and very slow respectively. High salinity, non-effervescence and high alkalinity sodic soil type. There is evidence of a very shallow, non-descript, and non-directional drainage syst unit.   OIL: Example from Site 089 MGA. Coordinates: 7373516mN, 379246mE.   CLASSIFICATION: Red brown earth. Kandosol - KA, AA, AH,CD, A, H, L, O, X			closed depression, intermittently water filled, channelled stream flow ( <i>Mc Donald, R.C. et. al,</i> ig the finer fraction of soil, hence the clayey creek system. Drainage and permeability is vescence and high alkalinity would suggest a non-directional drainage system within the land D, X ajority of the area has a cryptogram surface		
or is loose. Ge separate when	nerally the surfation touched. There	ace soil is an incoherer are the occasional (<	nt mass 1%) sub	of individual pa angular 20-60r	rticles with occasional loose aggregates that nm coarse gravelly quartz fragments. Granitic	
DEPTH	HORIZON	TEXTURE	рН	SALINITY	OTHER DETAILS	
(m)				(µs/cm)		
0.00 - 0.10	A1	Sandy loam (SL)	7.0	35	Dark red (2.5YR3/6). 20% 2-6mm angular fine gravelly granite fragments. A pedal, single grained and a just coherent structure. Non effervescent.	
0.10 - 0.20	A3	Sandy clay loam (SCL)	9.0	1136	Dark red (10R3/6). 20% 2-6mm angular fine gravelly granite fragments. A pedal, single grained and a strongly coherent structure. Non effervescent.	
0.20 - 0.50	B2	Clay loam sandy (CLS)	9.5	2200	Dark red (10R3/6). 20% 2-6mm angular fine gravelly granite fragments. A pedal, massive coherent with an earth fabric. Non effervescent.	
0.50 - 0.90	B2	Clay loam sandy (CLS)	9.5	1979	Dark red (10R3/6). 20% 2-6mm angular fine gravelly granite fragments. A pedal, massive coherent with an earthy fabric. Non effervescent.	
	<b>D</b> 0	Clav loam sandv		40.45	Dark red (10R3/6). 20% 2-6mm angular fine gravelly granite fragments. Weak polyhedral	

gravelly granite fragments. Weak polyhedral peds, massive coherent structure with an earthy fabric. Non effervescent. Dark red (10R3/6). 20% 2-6mm angular fine gravelly granite fragments. Weak polyhedral peds massive coherent structure with an earthy fabria. Non effervescent 0.90 - 1.30 B2 9.5 1945 (CLS) Light clay (LC) 1.30 - 1.60 B2 9.5 1985 fabric. Non effervescent.

VEGETATION:

Site 150 (Albrecht, D. & Pitts, B. 1999).

UPPER STRATUM - Us	ually absent			
Dominant species				
Other species	Needlewood			
MID STRATUM - Isolate	d clump of shrubs			
Dominant species	Needlewood			
Other species	Dead Finish, Desert Cassia, Mulga, Ironwood			
LOWER STRATUM - Op	ben sedgeland			
Dominant species	Cottonbush			
Other species	Succulent Copper Burr, Curly Windmill Grass, Woolly Yellow-heads, Crown Fissure Weed, Goathead Burr, Woolly Copper Burr, Slender Glasswort, Red Spinach, Barley Mitchell Grass, Spreading Saltbush, Desert Bluegrass, Bogan Flea, Buffel Grass, Button Grass, Australian Carrot, Silky Bluegrass, Ruby Saltbush, Mallee Lovegrass, Knottybutt Neverfail, Harlequin Fuchsia-bush, Eight Day Grass, Harlequin Mistletoe, Satiny Bluebush, Three-wing Bluebush, Minnie Daisy, Lignum, Native Millet, White Paper Daisy, Grey Wrinklewort, Buck Bush, Grey Copper Burr, <i>Senna artemisioides subsp. alicia</i> , Silver Sida, Katoora, Curly- pod Wattle, Bunched Kerosene Grass, Feathertop Wiregrass, Pop Saltbush, Spreading Saltbush, Australian Bindweed, Cannon-ball Saltbush, Climbing Saltbush, <i>Eremophila sturtii</i> , Weeping Emu Bush, Caustic Weed, Veined Peppercress, Annual Yellow Top, Tall Saltbush, Slender Spurge, Silky Copper Burr, <i>Senna artemisioides nothosubsp. coriacea, Sporobolus blakei</i> , Dwarf Swainsona, Bindieye, Five-minute Grass.			
(See appendix 3 for botanica	I names)			
	Page-135-			
No	Department of Lands, Planning & Environment / Natural Heritage Trust			