

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1937 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 23/09/93	Elevation: No Data
Map Ref.: Sheet No. : 7858 GPS	Rainfall: No Data
Northing/Long.: 7823635 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 258332 Datum: AGD66	Drainage: Moderately well drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Undisturbed soil core, No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Upper-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Gently inclined
Slope: 4 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Supracalcic Brown Chromosol Thin Slightly gravelly Loamy Clayey Moderately deep	Principal Profile Form: Dd2.13
ASC Confidence:	Great Soil Group: No suitable group

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Themeda triandra, Chrysopogon fallax
 Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus crebra, Hakea species, Sida species
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A1	0 - 0.05 m	Very dark brown (10YR2/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.02); Clear change to -
B21	0.05 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.15); Clear change to -
B22	0.25 - 0.58 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Sandy light medium clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.4); Gradual change to -
B23	0.58 - 0.8 m	Reddish brown (2.5YR4/4-Moist); Mottles, 10YR46, 2-10% , 5-15mm, Faint; Mottles, 2-10% ; Sandy medium clay (Light); Moderate grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Field pH 9 (Raupach, 0.7); Gradual change to -
BC	0.8 - 0.9 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sandy light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC		ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity			%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile