

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2260 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 25/08/93	Elevation: No Data
Map Ref.: Sheet No. : 7859 GPS	Rainfall: No Data
Northing/Long.: 7894336 AMG zone: 55	Runoff: Rapid
Easting/Lat.: 261159 Datum: AGD66	Drainage: Imperfectly 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: Simple-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Gently inclined
Slope: 5 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Calcic Brown Dermosol Thick Moderately gravelly Clay-loamy Clayey Deep	Principal Profile Form: Gn3.26
ASC Confidence:	Great Soil Group: No suitable

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, Very sparse. *Species includes - None recorded
 Mid Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus polycarpa, Eucalyptus crebra
 Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

polycarpa

Surface Coarse Fragments: 20-50%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A11	0 - 0.1 m	Very dark brown (10YR2/2-Moist); ; Fine sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; ; Calcareous, , , ; Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Clear change to -
A12	0.1 - 0.4 m	Dark reddish brown (5YR3/4-Moist); ; Sandy light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; ; Calcareous, , , ; Gypseous, , ; Field pH 6 (Raupach, 0.2); Clear change to -
A2	0.4 - 0.55 m	Strong brown (7.5YR4/6-Moist); ; Sandy light clay (Light); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.45); Clear change to -
B21	0.55 - 0.75 m	Dark yellowish brown (10YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Clear change to -
B22	0.75 - 1 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; ; Calcareous, , , ; Gypseous, , ; Field pH 8 (Raupach, 0.9); Clear change to -
B23	1 - 1.2 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; ; Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

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Laboratory Test Results:

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

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

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