

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 246 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte
Date Desc.: 17/06/91
Map Ref.: Sheet No. : 8357 GPS
Northing/Long.: 7748794 AMG zone: 55
Easting/Lat.: 501742 Datum: AGD66

Locality:	
Elevation:	240 metres
Rainfall:	No Data
Runoff:	Moderately rapid
Drainage:	Well drained

Geology

ExposureType:	No Data
Geol. Ref.:	No Data

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class: Rolling rises 9-30m 10-32%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 5 %

Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: 300 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol Thin Non-gravelly Loamy
Clayey Shallow

Mapping Unit: N/A
Principal Profile Form: Dr2.12

ASC Confidence:

Great Soil Group: Non-calciic brown soil

All necessary analytical data are available.

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

Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - *Bothriochloa pertusa*
Mid Strata - Shrub, 1.01-3m, Isolated plants. *Species includes - *Acacia bidwillii*
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - *Eucalyptus crebra*, *Eucalyptus erythrophloia*.

Eucalyptus

papuana

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, subrounded, Metamorphic rock (unidentified)

Profile Morphology

A1	0 - 0.08 m	Dark yellowish brown (10YR3/4-Moist); ; Sandy loam; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear. Smooth change to -
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B21	0.08 - 0.3 m	<p>Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm²) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Metamorphic rock (unidentified), coarse fragments; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Gradual, Smooth change to -</p>
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C 0.3 - 0.6 m ; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg			%
0 - 0.08	6.9A								
0.08 - 0.3	7.2A		12J	4.7	0.4	0.1			
0.3 - 0.6	7.4A								

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Laboratory Analyses Completed for this profile

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension