

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 28 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	28/06/90	Elevation:	200 metres
Map Ref.:	Sheet No. : 8357 GPS	Rainfall:	No Data
Northing/Long.:	7737174 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	503191 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Granodiorite

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:	3 %	Aspect:	190 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol Medium Non-gravelly Loamy Clayey Shallow	Principal Profile Form:	Dr2.22

ASC Confidence: All necessary analytical data are available	Great Soil Group:	Non-calciic brown soil
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Site Disturbance: No effective disturbance other than grazing by hoofed animals

<u>Vegetation:</u>	Low Strata - , , . *Species includes - Bothriochloa pertusa, Enneapogon polyphyllus, Bothriochloa bladhii
	Mid Strata - , , . *Species includes - Eucalyptus erythrophloia
	Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,
Eucalyptus	papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.3 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.25 m	Brown (7.5YR4/4-Moist); ; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.25 - 0.45 m	Yellowish red (5YR5/8-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.8 (Raupach, 0.3); Gradual, Smooth change to -
C	0.45 - 0.6 m	Reddish yellow (7.5YR6/6-Moist); ; Sandy light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (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	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	7.5A		4.8B	1.3	0.45	0.06				
0.25 - 0.45	7.5A		13.6J	3.3	0.4	0.1		17.6I		0.57
0.45 - 0.6	8A		12B	2.9	0.14	0.32				

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension