

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 370 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	13/08/91	Elevation:	220 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7750507 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	478520 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	2.5 %	Aspect:	140 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Calcic Red Chromosol Thin Non-gravelly Loamy Clayey		Principal Profile Form:	Dr2.13
ASC Confidence:		Great Soil Group:	Red-brown earth

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - Bothriochloa pertusa
Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,

Eucalyptus

papuana

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, subrounded, Metamorphic rock (unidentified)

Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
B1	0.08 - 0.18 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Clear change to -
B21	0.18 - 0.65 m	Dark red (2.5YR3/6-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Diffuse change to -
B31	0.65 - 1 m	Brown (7.5YR4/4-Moist); Substrate influence, 20-50% , 0-5mm, Distinct; Substrate influence, 20-50% ; Sandy clay loam; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.9); Clear change to -
B32k	1 - 1.3 m	Dark reddish brown (2.5YR3/4-Moist); Substrate influence, 20-50% , 0-5mm, Distinct; Substrate influence, 20-50% ; Sandy light clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site 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			%
0 - 0.08	6.8A								
0.18 - 0.65	7.5A		8.8J	4	0.2	0.2	15.9I		1.26
0.65 - 1	7.9A								
1 - 1.3	8.4A								

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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
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension