

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 236 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	06/06/91	Elevation:	200 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7763808 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	477458 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 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:	Very gently sloped
Slope:	1 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Red Chromosol Thin Non-gravelly Loamy Clayey Moderately deep	Principal Profile Form:	Dr2.12
ASC Confidence:	Great Soil Group:	Non-calcic 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, Sparse. *Species includes - Heteropogon contortus, Bothriochloa ewartiana, Themeda triandra Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Eucalyptus papuana

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Many (>5 per 100mm ²) Medium (2-5mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.05); Common, medium (2-5mm) roots; Clear, Smooth change to -
B1	0.09 - 0.24 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.24 - 0.45 m	Red (10R4/6-Moist); Substrate influence, 7.5YR58, 0-2% , 0-5mm, Prominent; Substrate influence, 0-2% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B3	0.45 - 0.6 m	Red (2.5YR4/6-Moist); Substrate influence, 7.5YR58, 10-20% , 0-5mm, Prominent; Substrate influence, 10-20% ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6); Few, fine (1-2mm) roots; Clear, Smooth change to -
B/C	0.6 - 0.8 m	Red (2.5YR4/8-Moist); Substrate influence, 7.5YR58, 20-50% , 5-15mm, Prominent; Substrate influence, 20-50% ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.8); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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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