

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 272 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	20/06/91	Elevation:	310 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7755598 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	437500 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Granulite

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:	3 %	Aspect:	80 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Brown Chromosol Thick Slightly gravelly Sandy Clayey Shallow	Principal Profile Form:	Dy3.22
ASC Confidence:	Great Soil Group:	No suitable

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Heteropogon contortus, Chrysopogon fallax, Eragrostis species Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

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

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Few, very fine (0-1mm) roots;
A21	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Few, very fine (0-1mm) roots; Clear, Smooth change to -
A22	0.2 - 0.32 m	Brown (7.5YR5/4-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.32 - 0.48 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR58, 20-50% , 0-5mm, Faint; Mottles, 20-50% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Clear, Smooth change to -
C	0.48 - 0.5 m	; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.5);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	6.1A									
0.2 - 0.32	6.4A		3J	1.1	0.3	0.1				

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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