

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 181 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	10/10/90	Elevation:	450 metres
Map Ref.:	Sheet No. : 7860 GPS	Rainfall:	No Data
Northing/Long.:	7907752 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	284234 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, Shale

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	210 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol Thin Gravelly Clay-loamy Clayey Shallow		Principal Profile Form:	Dr2.12
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Non-calciic brown soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Heteropogon contortus, Dichanthium sericeum, Themeda triandra
Mid Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus papuana
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, angular tabular, Schist

Profile Morphology

A1	0 - 0.07 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam (Light); Moderate 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, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
B21t	0.07 - 0.19 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Medium (2-5mm) macropores, Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , ; Many, fine (1-2mm) roots; Clear, Tongued change to -
C	0.19 - 0.6 m	; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.4);

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	Acidity		%
0 - 0.07	6.8A		9.7B	6.4	0.46	0.04		15.6I	0.26
0.19 - 0.6	7.3A		9.6J	6.6	0.5	0.1			0.64

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,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