

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 164 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	19/09/90	Elevation:	700 metres
Map Ref.:	Sheet No. : 7858 GPS	Rainfall:	No Data
Northing/Long.:	7798594 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	286547 Datum: AGD66	Drainage:	Imperfectly 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Manganic Eutrophic Brown Ferrosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Gn3.52
ASC Confidence:	Great Soil Group:	Xanthozem

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, Sparse. *Species includes - Themeda triandra, Heteropogon contortus, Chrysopogon fallax Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1c	0 - 0.15 m	Dark brown (10YR3/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Diffuse, Smooth change to -
B1c	0.15 - 0.65 m	Dark yellowish brown (10YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Many (20 - 50 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.65 - 1.4 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 10YR31, 20-50% , 5-15mm, Prominent; Mottles, 5YR58, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.9); Few, very fine (0-1mm) roots;

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 - 0.15	7A		6B	2.1	0.64	0.04				
0.15 - 0.65	6.9A		5.1B	2.2	0.5	0.5				
0.65 - 1.4	7A		4.9B	2.5	0.39	0.06		10.9I		0.55
			6.3J	3.3	0.4	0.1				0.92

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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