

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 159 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	19/09/90	Elevation:	295 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7815616 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	388531 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	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:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Manganic Eutrophic Brown Ferrosol Thin Slightly gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	Gn3.22
ASC Confidence:		Great Soil Group:	Euchrozem

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, Mid-dense. *Species includes - Bothriochloa ewartiana, Heteropogon contortus,
Aristida species Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subrounded, Quartz

Profile Morphology

A1	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.08 - 0.65 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Many, fine (1-2mm) 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 - 0.08	6.2A		10B	5.3	1.3	0.06				
0.08 - 0.65	6.3A		8.9J	4.5	0.6	0.1		16.3I		0.61

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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