

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 44 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	18/07/90	Elevation:	305 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7753382 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	383706 Datum: AGD66	Drainage:	Poorly 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:	100 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Mottled-Subnatric Brown Sodosol Very thick Non-gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	Dy3.42
ASC Confidence:	Great Soil Group:	Solodic soil

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Heteropogon contortus, Themeda triandra, Panicum effusum

Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Eucalyptus melanophloia, Acacia species, Melaleuca viridiflora

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10YR56, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.03); Common, fine (1-2mm) roots; Clear, Smooth change to -
A21	0.05 - 0.4 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR68, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.2); Common, fine (1-2mm) roots; Clear, Smooth change to -
A22ec	0.4 - 0.6 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 20-50% , 0-5mm, Prominent; Mottles, 20-50% ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.5); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.6 - 0.9 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR63, 20-50% , 5-15mm, Prominent; Mottles, 7.5YR58, 20-50% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.7); Abrupt, Smooth change to -
B/C	0.9 - 0.95 m	Yellowish brown (10YR5/8-Moist); , Medium heavy clay; Moist; Strong consistence; , Calcareous, , , , Gypseous, , , ; Ferricrete, Strongly cemented, Continuous, Massive; Field pH 7.5 (Raupach, 0.95);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	5.6A								
0.05 - 0.4	6.1A								
0.4 - 0.6	7.5A								
0.6 - 0.9	7.6A		3B	2.3	0.07	0.4		4.6I	8.70
			3.2J	2.3	0.1	0.4			
0.9 - 0.95	7.7A		2.7B	2	0.07	0.42			

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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