

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 51 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	19/07/90	Elevation:	405 metres
Map Ref.:	Sheet No. : 7956 GPS	Rainfall:	No Data
Northing/Long.:	7713446 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	332325 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:	130 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Yellow Chromosol Thick Non-gravelly Sandy Clayey Deep	Principal Profile Form:	Dy2.12
ASC Confidence:	Great Soil Group:	Yellow podzolic 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, Very sparse. *Species includes - Aristida species, Chrysopogon fallax
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Acacia species, Casuarina littoralis, Eucalyptus melanophloia

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Strong consistence; , Calcareous, , , ; Gypseous, , ; Abrupt, Smooth change to -
A12	0.03 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , ; Gypseous, , ; Field pH 5.8 (Raupach, 0.04); Clear, Smooth change to -
A3	0.2 - 0.39 m	Pale brown (10YR6/3-Moist); ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 6.2 (Raupach, 0.3); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.39 - 0.55 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.55 - 0.8 m	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Sandy clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
2B2cb	0.8 - 0.95 m	Pale brown (10YR6/3-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , ; Gypseous, , ; Field pH 7 (Raupach, 0.85); Abrupt, Smooth change to -
2B3mb	0.95 - 1 m	; Rigid consistence; , Calcareous, , , ; Gypseous, , ; Ferricrete, Strongly cemented, Continuous, Massive;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0.03 - 0.2	5.8A		1B	0.37	0.19	0.03			
0.2 - 0.39	6.3A								
0.55 - 0.8	6.6A		1.7B	1.4	0.21	0.07	3.6I		1.94
			1.5J	1.4	0.2	0			0.00
0.8 - 0.95	6.4A								

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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