

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 75 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 26/07/90	Elevation: 319 metres
Map Ref.: Sheet No. : 8056 GPS	Rainfall: No Data
Northing/Long.: 7728717 AMG zone: 55	Runoff: Very slow
Easting/Lat.: 373885 Datum: AGD66	Drainage: Imperfectly 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: 60 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Mottled Mesotrophic Grey Chromosol Medium Non-gravelly Loamy Clayey Deep	Principal Profile Form: Dy3.42
ASC Confidence:	Great Soil Group: No suitable

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, Very sparse. *Species includes - Chrysopogon fallax, Aristida species
 Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Planchonia careya, Petalostigma pubescens,
 Eucalyptus melanophloia
 Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus melanophloia, Eucalyptus papuana,
 Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.1 - 0.2 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.2 - 0.45 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 2-10% , 5-15mm, Faint; Mottles, 2-10% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.3); Few, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.45 - 0.85 m	Very pale brown (10YR7/4-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.6); Clear, Smooth change to -
B22c	0.85 - 1.2 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	6.1A		1.3B	0.57	0.25	0.03				
0.2 - 0.45	5.8A									
0.45 - 0.85	6.7A		3J	2.4	0.2	0.2		5I		4.00
0.85 - 1.2			2.7B	2.7	0.22	0.41				

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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