

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 46 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	18/07/90	Elevation:	325 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7755459 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	372237 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:	100 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Grey Kandosol Medium Non-gravelly Loamy Clayey Very deep	Principal Profile Form:	Gn2.82
ASC Confidence:	Great Soil Group:	Grey earth

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 - Aristida species, Chrysopogon fallax
Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Acacia species, Eucalyptus erythrophloia, Casuarina
leuhmannii
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus melanophloia, Eucalyptus papuana,
Eucalyptus
erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.04); Few, medium (2-5mm) roots; Gradual, Smooth change to -
A3	0.15 - 0.32 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Few, medium (2-5mm) roots; Clear, Smooth change to -
B1	0.32 - 0.6 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.5); Common, medium (2-5mm) roots; Clear, Smooth change to -
B21	0.6 - 0.92 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.8); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
2B22c	0.92 - 1.4 m	Light grey (10YR7/2-Moist); Mottles, 7.5YR58, 20-50% , 5-15mm, Prominent; Mottles, 2.5YR46, 20-50% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Wet; Firm consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.1); Abrupt, Smooth change to -
2B3c	1.4 - 1.6 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR66, 20-50% , 5-15mm, Prominent; Mottles, 7.5YR58, 20-50% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Wet; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.5);

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				Comol (+)/kg				%
0 - 0.15	6.8A		2.1B	0.73	2	0.04				
0.15 - 0.32	6.8A									
0.32 - 0.6	6.8A									
0.6 - 0.92	6.9A		3.7B	1.7	0.14	0.08				
0.92 - 1.4	6.6A		2.5B	1.7	0.08	0.14				
1.4 - 1.6	7.2A		3.6J	1.7	0.1	0.1		6.5I		1.54

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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