

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 47 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	18/07/90	Elevation:	340 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7751874 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	366604 Datum: AGD66	Drainage:	Moderately well 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:	190 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Mesotrophic Grey Kandosol Medium Non-gravelly Sandy Clayey 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, Mid-dense. *Species includes - Chrysopogon fallax, Phynchelytrum repens

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

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.04); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.12 - 0.35 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.25); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.35 - 0.65 m	Brown (10YR5/3-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.5); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.65 - 1 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0.9); Few, fine (1-2mm) roots; Abrupt, Smooth
2B21cb	1 - 1.3 m	Light grey (10YR7/2-Moist); ; Medium clay; Moderate 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, 1.1); Clear, Smooth change to -
2B22b	1.3 - 1.4 m	Strong brown (7.5YR5/8-Moist); Mottles, 10YR72, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.4); Abrupt, Smooth change to -
2B3b	1.4 - 1.45 m	Very pale brown (10YR7/3-Moist); ; , Calcareous, , , , Gypseous, , ; Other pans, Uncemented, Continuous, Massive;

Morphological Notes

Observation Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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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