

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 221 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	12/04/91	Elevation:	200 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7747354 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	493154 Datum: AGD66	Drainage:	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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Basic Paralithic Orthic Tenosol Thin Non-gravelly Sandy Sandy Very deep	Mapping Unit:	N/A
		Principal Profile Form:	Uc5.21
ASC Confidence:	All necessary analytical data are available.	Great Soil Group:	Earthy sand

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus, Digitaria species, Bothriochloa pertusa
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus papuana, Eucalyptus polycarpa,

Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Dark yellowish brown (10YR3/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.08 - 0.25 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , ; Gypseous, , ; Many, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.25 - 0.5 m	Strong brown (7.5YR5/6-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , ; Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.5 - 1.5 m	Strong brown (7.5YR5/6-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 1.2); Few, very fine (0-1mm) roots;

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 - 0.08	6.3A							
0.25 - 0.5	6.5A							
0.5 - 1.5	6.9A		2.5J	0.8	0.3	0.2	3l	6.67

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Laboratory Analyses Completed for this profile

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