

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 729 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	15/08/91	Elevation:	290 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7807307 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	415029 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Existing vertical exposure, Ferricrete

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached Calcic Brown Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	Principal Profile Form:	Dy2.43
ASC Confidence: All necessary analytical data are available.	Great Soil Group:	No suitable

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

Vegetation: Low Strata - Hummock grass, 0.51-1m, Sparse. *Species includes - TRIODIA SPECIES ?
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii, Planchonia careya, Grevillea striata
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, rounded, Ferricrete

Profile Morphology

A11	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05);
A12	0.08 - 0.18 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ;
A21	0.18 - 0.28 m	Brownish yellow (10YR6/6-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ;
A22e	0.28 - 0.3 m	White (10YR8/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.3);
B21	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach,
B22k	0.5 - 0.7 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , , ; Field pH 9.5 (Raupach, 0.7);

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				Cmol	(+)/kg			%
0 - 0.08	6.9A									
0.5 - 0.7	8.9A		11J	8.2	0.1	0.5		15.8I		3.16

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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