

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 644 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	30/05/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8159 GPS	Rainfall:	No Data
Northing/Long.:	7865506 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	417296 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Schist

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	290 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypercalcic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Sandy Clayey Deep	Principal Profile Form:	Dy3.23
ASC Confidence:	Great Soil Group:	Solodic soil
No analytical data are available but confidence is fair.		

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Heteropogon contortus, Chrysopogon fallax, Bothriochloa species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus platyphylla, Eucalyptus Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus platyphylla, Eucalyptus drepanophylla, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Many, fine (1-2mm) roots;
A2	0.08 - 0.2 m	Light olive brown (2.5Y5/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, dispersed, Quartzite, coarse fragments; , Calcareous, , , , Gypseous, , ; Few, fine (1-2mm) roots;
B21	0.2 - 0.6 m	Strong brown (7.5YR5/8-Moist); Substrate influence, 10YR64, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; Sandy medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Very few (0 - 2 %), Sulphurous, Medium (2 -6 mm), , , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Few, fine (1-2mm) roots;
B22k	0.6 - 1.1 m	Light olive brown (2.5Y5/6-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Sulphurous, Medium (2 -6 mm), , ; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.9);
BC	1.1 - 1.5 m	Light yellowish brown (10YR6/4-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Sulphurous, Medium (2 -6 mm), , ; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.2);
C	1.5 - 1.7 m	; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 1.7);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.08	5.6A								
0.2 - 0.6	8.5A								
0.6 - 1.1	9.5A								
1.1 - 1.5	9.7A								

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension