

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2373 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	28/10/94	Elevation:	No Data
Map Ref.:	Sheet No. : 7960 GPS	Rainfall:	No Data
Northing/Long.:	7914072 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	333990 Datum: AGD66	Drainage:	Imperfectly 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:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Mottled Eutrophic Brown Chromosol Medium Slightly gravelly Loamy Clayey Moderately deep	Principal Profile Form:	Dy3.42
ASC Confidence:	Great Soil Group:	Yellow podzolic soil
Confidence level not specified		

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Bothriochloa species
Mid Strata - Shrub, 1.01-3m, Very sparse. *Species includes - Bursaria incana
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus persistens, Eucalyptus crebra

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subangular, Sandstone

Profile Morphology

A1	0 - 0.06 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.03); Clear change to -
A2e	0.06 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.15); Clear change to -
B21	0.2 - 0.45 m	Yellowish brown (10YR5/6-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Faint; Mottles, 10-20% ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.3); Gradual change to -
B22	0.45 - 0.7 m	Yellowish brown (10YR5/4-Moist); Mottles, 5YR56, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Medium clay (Light); Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0.6); Clear change to -
B3	0.7 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Silty clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0.9);

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 - 0.06	6.3A		2.7B	3	0.29	0.16			
0.06 - 0.2	6.5A								
0.2 - 0.45	6.8A								
0.45 - 0.7	7.2A								
0.7 - 0.9	8.6A								

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Laboratory Analyses Completed for this profile

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
4A1	pH of 1:5 soil/water suspension