

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 750 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 20/09/91	Elevation: 320 metres
Map Ref.: Sheet No. : 8058 GPS	Rainfall: No Data
Northing/Long.: 7802792 AMG zone: 55	Runoff: No Data
Easting/Lat.: 394455 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, No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Alluvial plain
Morph. Type: Open depression (vale)	Relief: No Data
Elem. Type: Drainage depression	Slope Category: Very gently sloped
Slope: 2 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypercalcic Mottled-Subnatric Black Sodosol Medium Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form: Dd2.43
ASC Confidence:	Great Soil Group: Solodic soil

No analytical data are available but confidence is fair.

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

Vegetation: Low Strata - Tussock grass, 1.01-3m, Sparse. *Species includes - Dichanthium sericeum, Chrysopogon fallax, Sporobolus species Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Eucalyptus brownii, Eremophila mitchellii, Eucalyptus papuana

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.05 m	Very dark brown (10YR2/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.05); Clear change to -
A2e	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Substrate influence, 10YR81, 20-50% , 5-15mm, Prominent; Substrate influence, 20-50% ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Abrupt change to -
B21	0.1 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.3); Gradual change to -
B22	0.4 - 0.75 m	Dark greyish brown (10YR4/2-Moist); Substrate influence, 10YR58, 2-10% , 5-15mm, Prominent; Substrate influence, 2-10% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.6); Gradual change to -
B23	0.75 - 1.05 m	Dark grey (10YR4/1-Moist); Substrate influence, 10YR54, 2-10% , 5-15mm, Prominent; Substrate influence, 2-10% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9); Clear change to -
B24k	1.05 - 1.3 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Field pH 9.5 (Raupach, 1.2);

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			%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m					g/g - m3/m3				mm/h mm/h

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Laboratory Analyses Completed for this profile