

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1516 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 13/10/92	Elevation: No Data
Map Ref.: Sheet No. : 8056 GPS	Rainfall: No Data
Northing/Long.: 7719773 AMG zone: 55	Runoff: Slow
Easting/Lat.: 362456 Datum: AGD66	Drainage: Imperfectly drained

Geology

Exposure Type: 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: Level plain <9m <1%	Pattern Type: Plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: Level
Slope: 1 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Eutrophic Black Dermosol Thin Gravelly Clay-loamy Clayey Deep	Principal Profile Form: Gn3.03

ASC Confidence:	Great Soil Group: N/A
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, <0.25m, Sparse. *Species includes - Eulalia aurea, Dichanthium species, Chrysopogon fallax

Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Atalaya hemiglauc, Bursaria incana, Eremophila mitchellii

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii, Lysiphillum carronii

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, rounded, Quartz

Profile Morphology

A1	0 - 0.07 m	Very dark grey (10YR3/1-Moist); ; Clay loam, sandy (Heavy); Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.03); Clear change to -
A2j	0.07 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.08); Abrupt change to -
B21	0.1 - 0.55 m	Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , , ; Soil matrix is Slightly calcareous; Field pH 7 (Raupach, 0.4); Gradual change to -
B22	0.55 - 0.85 m	Brown (10YR5/3-Moist); Mottles, 10YR62, 20-50% , Faint; Mottles, 20-50% ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.6); Gradual change to -
B23	0.85 - 1.2 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR54, 10-20% , Distinct; Mottles, 10-20% ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 1);

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