

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1853 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Barry, Earl	Locality:	
Date Desc.:	07/07/93	Elevation:	No Data
Map Ref.:	Sheet No. : 8155 GPS	Rainfall:	No Data
Northing/Long.:	7659208 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	408579 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.1
ASC Confidence:		Great Soil Group:	Black earth

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, 0.51-1m, Sparse. *Species includes - Unknown species, Unknown species, Unknown species

Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Lysiphillum carronii, Acacia salicina

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Very dark grey (7.5YR3/0-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.05); Abrupt change to -
A12	0.08 - 0.4 m	Black (7.5YR2/0-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.3); Gradual change to -
B21	0.4 - 0.8 m	Black (2.5YR2/0-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.7); Gradual change to -
B22	0.8 - 1.32 m	Dusky red (2.5YR3/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Limestone, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.3); Gradual change to -
BC	1.32 - 1.9 m	Red (2.5YR5/6-Moist); Substrate influence, 10YR74, 10-20% , 15-30mm, Prominent; Substrate influence, 10-20% ; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence; Very many (50 - 100 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 1.8);

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