

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1855 **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.:	7666816 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	405254 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:	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): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Gypsic Self-Mulching Brown Vertosol Non-gravelly Fine Medium fine Very deep	Principal Profile Form:	Ug5.31
ASC Confidence:	Great Soil Group:	Brown clay
Confidence level not specified		

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - , , . *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia cambagei
Tall Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Acacia cambagei

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Dark greyish brown (2.5Y4/3-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 Highly calcareous; Field pH 8.5 (Raupach, 0.05); Abrupt change to -
A12	0.08 - 0.7 m	Olive brown (2.5Y4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.6); Gradual change to -
B21	0.7 - 1.05 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1); Gradual change to -
B22	1.05 - 1.4 m	Pale olive (5Y6/3-Moist); Mottles, 10R46, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Crystals; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 1.3); Gradual change to -
B23	1.4 - 1.9 m	Pale olive (5Y6/3-Moist); Mottles, 10R46, 0-2% , 5-15mm, Prominent; Mottles, 0-2% ; Light medium clay; Weak grade of structure; Smooth-ped fabric; Moderately moist; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 1.8);

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 C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents						K sat		K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile