

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2242 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	21/10/93	Elevation:	No Data
Map Ref.:	Sheet No. : 7957 GPS	Rainfall:	No Data
Northing/Long.:	7890360 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	317248 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Existing vertical exposure, 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:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Sodic Calcic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form:	Gn3.86
ASC Confidence:	Great Soil Group:	No suitable

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, 0.26-0.5m, Isolated plants. *Species includes - Unknown species, Unknown species,
Unknown species
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Melaleuca species, Eucalyptus platyphylla, Petalostigma pubescens
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus platyphylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 0.05); Clear change to -
A2e	0.1 - 0.25 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.2); Gradual change to -
B1	0.25 - 0.5 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Prominent; Mottles, 2-10% ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.35); Clear change to -
B21	0.5 - 1.2 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR36, 10-20% , 5-15mm, Prominent; Mottles, 2.5Y63, 10-20% ; Sandy light medium clay (Heavy); Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.8); Gradual change to -
B22	1.2 - 1.4 m	Light olive brown (2.5Y5/6-Moist); ; Sandy light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , ; Field pH 9.5 (Raupach, 1.3);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	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		
m		g/g - m3/m3						mm/h	mm/h
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
1.80	1.80	1.80	1.80						

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Laboratory Analyses Completed for this profile