

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** T580 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	18/08/93	Elevation:	No Data
Map Ref.:	Sheet No. : 7958 GPS	Rainfall:	No Data
Northing/Long.:	7805450 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	311033 Datum: AGD66	Drainage:	No Data

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:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Manganic Eutrophic Brown Ferrosol Thick Non-gravelly Clay-loamy Clayey Moderately deep	Mapping Unit:	N/A
		Principal Profile Form:	Gn3.22
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Xanthozem

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Unknown species, Unknown species, Unknown species
 Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus crebra

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.01 m	Very dark brown (10YR2/2-Moist); ; Clay loam; Weak grade of structure, <2 mm, Platy; Weak grade of structure, <2 mm, Lenticular; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0); Clear change to -
A12	0.01 - 0.17 m	Dark brown (7.5YR3/3-Moist); ; Clay loam; Massive grade of structure; Moderate grade of structure, <2 mm, Polyhedral; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.1); Gradual change to -
A3	0.17 - 0.31 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, <2 mm, Polyhedral; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.25); Gradual change to -
B1	0.31 - 0.55 m	Brown (7.5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.5); Gradual change to -
B2c	0.55 - 0.86 m	Yellowish brown (10YR5/8-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Weak consistence; Many (20 - 50 %), Manganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.7);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.01	5.2C 6.6A	0.06A	11B	3.7	1.4	0.06				
0.01 - 0.17	5.4C 6.6A	0.06A	9.1B	3	1.4	0.05				
0.17 - 0.31	5.3C 6.6A	0.05A								
0.31 - 0.55	5.6C 6.6A	0.04A								
0.55 - 0.85	6C 6.8A	0.03A	6.1B	2.6	0.83					

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			%		
0 - 0.01		1.7A		0.324A		0.42A			25A	16	23	36
0.01 - 0.17				0.289A		0.4A						
0.17 - 0.31		0.65A							22A	15	20	43
0.31 - 0.55												
0.55 - 0.85		0.21A							21A	7	11	62

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
9A1	Total phosphorus - X-ray fluorescence
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method