

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2131 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	08/10/93	Elevation:	No Data
Map Ref.:	Sheet No. : 7858 GPS	Rainfall:	No Data
Northing/Long.:	7827800 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	285293 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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Self-Mulching Black Vertosol Gravelly Fine Very fine Very deep		Principal Profile Form:	Ug5.24
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Black earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa species, Dichanthium species

Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus papuana

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus orgadophylla

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subrounded, Basalt

Profile Morphology

A11	0 - 0.05 m	Dark greyish brown (2.5Y4/2-Moist); ; Light clay; Strong grade of structure, Granular; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0);
A12	0.05 - 0.18 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.15);
B21	0.18 - 0.8 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0.7);
B22	0.8 - 1.25 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 8.5 (Raupach, 1.2);
B23	1.25 - 1.7 m	Dark greyish brown (2.5Y4/3-Moist); Mottles, 2.5Y44, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , , ; Field pH 8 (Raupach, 1.6);
B24c	1.7 - 1.95 m	Grey (10YR5/1-Moist); Mottles, 2.5Y44, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 2-5 mm, Angular blocky; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , , ; Field pH 8 (Raupach, 1.9);

Morphological Notes

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Site Notes

Observation 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	Acidity			%
						Cmol (+)/kg				
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	FS
		%	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