

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 127 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 04/09/90	Elevation: 420 metres
Map Ref.: Sheet No. : 7957 GPS	Rainfall: No Data
Northing/Long.: 7732640 AMG zone: 55	Runoff: Rapid
Easting/Lat.: 329819 Datum: AGD66	Drainage: Imperfectly drained

Geology

Exposure Type: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Soil pit, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Very gently sloped
Slope: 3 %	Aspect: 210 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Eutrophic Brown Kandosol Medium Non-gravelly	Principal Profile Form: Gn2.64
Sandy Clayey Deep	
ASC Confidence:	Great Soil Group: Yellow earth

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Chrysopogon fallax
 Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Petalostigma pubescens, Acacia shirleyi, Eucalyptus
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii, Acacia shirleyi, Eucalyptus

papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Brown (10YR4/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Few, coarse (>5mm) roots; Gradual, Smooth change to -
A3	0.1 - 0.3 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.3); Few, coarse (>5mm) roots; Gradual, Smooth change to -
B1	0.3 - 0.4 m	Yellowish brown (10YR5/8-Moist); , 2.5YR48, 0-2% ; , 0-2% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B21	0.4 - 0.6 m	Yellowish brown (10YR5/8-Moist); , 2.5YR48, 2-10% ; , 2-10% ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.6); Diffuse, Smooth change to -
B22	0.6 - 0.9 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy light clay; Weak grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.9); Gradual change to -
B3	0.9 - 1.2 m	Light brownish grey (10YR6/2-Moist); Mottles, 10R46, 20-50% , 15-30mm, Prominent; Mottles, 7.5YR58, 20-50% ; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 1.2);

Morphological Notes

Observation 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 - 0.1	6.4A		0.93B	0.6	0.18	0.03				
0.1 - 0.3	6A									
0.4 - 0.6	5.9A									
0.6 - 0.9	6.6A		0.4J	3.2	0.1	0.2		5.1I		3.92
0.9 - 1.2	6.3A		0.19B	8.5	0.15	0.69				

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension