

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 107 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	20/08/90	Elevation:	340 metres
Map Ref.:	Sheet No. : 8059 GPS	Rainfall:	No Data
Northing/Long.:	7858334 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	391974 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:	60 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Eutrophic Yellow Kandosol Medium Non-gravelly Sandy Clayey Very deep	Principal Profile Form:	Gn2.25
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 - Heteropogon contortus, Eriachne species, Aristida species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species, Eucalyptus erythrophloia, Bursaria incana

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Loamy coarse sand; Weak grade of structure, 2-5 mm, Platy; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.03 - 0.28 m	Dark brown (10YR3/3-Moist); ; Clayey coarse sand; Single grain grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B1	0.28 - 0.78 m	Yellowish brown (10YR5/7-Moist); ; Coarse sandy clay loam (Light); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21c	0.78 - 0.9 m	Brownish yellow (10YR6/6-Moist); ; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.9); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22c	0.9 - 1.25 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR6.4, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Veins; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 1.2); Gradual, Smooth change to -
B23c	1.25 - 1.6 m	Light brownish grey (10YR6/2-Moist); Mottles, 5YR5.8, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Coarse sandy medium clay; Weak grade of structure; Smooth-ped fabric; Moderately moist; Weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 1.5); Gradual, Smooth change to -
D	1.6 - 1.75 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Earthy fabric; Wet; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 1.7);

Morphological Notes

Observation Notes

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Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0.03 - 0.28	6.6A		2.2B	0.85	0.21	0.02			
0.28 - 0.78	5.8A								
0.78 - 0.9	6.2A		1.1B	1.9	0.17	0.08	3.2I		2.50
			1.5J	1.8	0.3	0.1			3.13
0.9 - 1.25	6.6A								
1.25 - 1.6	6.8A								
1.6 - 1.75	6.7A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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