

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 204 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 09/04/91	Elevation: 260 metres
Map Ref.: Sheet No. : 8257 GPS	Rainfall: No Data
Northing/Long.: 7780717 AMG zone: 55	Runoff: Slow
Easting/Lat.: 459045 Datum: AGD66	Drainage: Imperfectly drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Undisturbed soil core, Granodiorite

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%	Pattern Type: Rises
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Very gently sloped
Slope: 2 %	Aspect: 280 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mesotrophic Mottled-Subnatric Brown Sodosol Very thick Non-gravelly Sandy Clayey Deep	Principal Profile Form: Dy5.62
ASC Confidence:	Great Soil Group: Solodic soil
Analytical data are incomplete but reasonable confidence.	

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Heteropogon contortus, Perotis rara, Phynchelytrum repens Mid Strata - , , , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,

Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.18 m	Dark brown (10YR3/3-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
A21	0.18 - 0.45 m	Brown (7.5YR4/3-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
A22	0.45 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.7 - 0.8 m	Reddish yellow (7.5YR6/6-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to -
B21	0.8 - 1 m	Strong brown (7.5YR5/8-Moist); Mottles, 10YR62, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.9); Clear, Smooth change to -
B22	1 - 1.35 m	Yellowish red (5YR5/8-Moist); Mottles, 10YR62, 20-50% , 5-15mm, Prominent; Mottles, 10YR68, 20-50% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.2); Clear, Smooth change to -

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C 1.35 - 1.45 m ; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.45); Smooth change to -

Morphological Notes

Observation Notes

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 - 0.18	7.2A								
0.18 - 0.45	6.7A								
0.45 - 0.7	6.7A								
0.8 - 1	7.2A		4.7J	2.4	0.1	0.5	8.9I		5.62
1 - 1.35	7.6A								
1.35 - 1.45	7.6A								

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Laboratory Analyses Completed for this profile

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