

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 699 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 01/08/91	Elevation: 300 metres
Map Ref.: Sheet No. : 8158 GPS	Rainfall: No Data
Northing/Long.: 7820820 AMG zone: 55	Runoff: Slow
Easting/Lat.: 442917 Datum: AGD66	Drainage: Moderately well 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: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Gently inclined
Slope: 4 %	Aspect: 270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Subnatric Black Sodosol Thick Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form: Dd1.43
ASC Confidence:	Great Soil Group: Solodic soil

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Bothriochloa ewartiana

Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus crebra

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Wavy change to -
A12	0.05 - 0.2 m	Dark brown (10YR3/3-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Clear, Wavy change to -
A2e	0.2 - 0.35 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Abrupt, Tongued change to -
B21	0.35 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 100-200 mm, Columnar; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.6); Clear, Wavy change to -
B22k	0.6 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.9); Gradual, Wavy change to -
B23	0.9 - 1.5 m	Yellowish brown (10YR5/4-Moist); Mechanical, 10YR31, 20-50% , 5-15mm, Distinct; Mechanical, 10YR58, 20-50% ; Sandy medium heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 1.2); Field pH 8.5 (Raupach, 1.5); Gradual, Wavy change to -
B24	1.5 - 1.75 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR31, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Sandy medium heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Gradual, Wavy change to -

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B25 1.75 - 2.3 m Brown (7.5YR4/4-Moist); ; Sandy medium heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 2.2);

Morphological Notes

Observation Notes

Site 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 Cmol (+)/kg	Acidity		%
0 - 0.05	6.8A								
0.35 - 0.6	7.9A		19.9J	6	0.1	3.2		27.7I	11.55
0.9 - 1.5	8.4A								
1.75 - 2.3	8.5A								

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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