

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 748 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	20/09/91	Elevation:	300 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7800367 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	417157 Datum: AGD66	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Massive Black Vertosol Non-gravelly Fine Medium fine Very deep	Principal Profile Form:	Ug5.16
ASC Confidence:	Great Soil Group:	Grey clay

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Bothriochloa ewartiana, Dichanthium sericeum,
Chrysopogon fallax Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus brownii
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus brownii, Eucalyptus crebra,
Eucalyptus papuana

Surface Coarse Fragments: 0-2%, , rounded, Basalt

Profile Morphology

A1j	0 - 0.08 m	Dark grey (10YR4/1-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
B21	0.08 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Diffuse change to -
B22k	0.6 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.9); Gradual change to -
B23	0.9 - 1.5 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, 1.5); Gradual change to -
B24c	1.5 - 1.7 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Clear change to -
B25	1.7 - 2.1 m	Light brownish grey (2.5Y6/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 5.7 (Raupach, 2.1);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 748 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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 - 0.08	7A							
0.08 - 0.6	7.4A		9.9J	6.6	0.1	0.8	18.5I	4.32
0.6 - 0.9	7.9A							
1.7 - 2.1	5.7A		10.4J	10.1	0.3	3.2	24.7I	12.96

[illegible][illegible]

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 748 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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