

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 706 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 02/08/91	Elevation: 300 metres
Map Ref.: Sheet No. : 8158 GPS	Rainfall: No Data
Northing/Long.: 7810774 AMG zone: 55	Runoff: Very slow
Easting/Lat.: 436810 Datum: AGD66	Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: Level
Slope: 1 %	Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Endocalcareous Massive Black Vertosol Non-gravelly Medium fine Very fine Moderately deep	Principal Profile Form: Ug5.4
ASC Confidence:	Great Soil Group: Black earth

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa ewartiana, Sporobolus caroli

Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Acacia excelsa, Eucalyptus brownii

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Clear, Smooth
B1	0.02 - 0.1 m	Black (10YR2/1-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.05); Clear, Smooth change to -
B21	0.1 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.3); Clear, Smooth change to -
B22k	0.5 - 0.7 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.6); Sharp, Smooth change to -
B/C	0.7 - 0.8 m	; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , , Soil matrix is Moderately calcareous; Sharp, Smooth change to -
C	0.8 - 0.85 m	; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.9);

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		%
0.02 - 0.1	7A		13B	3.2	0.38	0.16			
0.1 - 0.5	7A								
0.5 - 0.7	8.3A		34B	7.6	0.22	1.9			
0.8 -	9A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension