

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 697 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	31/07/91	Elevation:	360 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7823726 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	438274 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, Siltstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	100 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Haplic Supracalcic Brown Dermosol Medium Gravelly Silty Clayey Deep	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Dr2.13
		Great Soil Group:	No suitable

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Bothriochloa pertusa
 Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Acacia
 Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus erythrophloia

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, subrounded, Sandstone

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Silty clay loam; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.05); Clear, Smooth change to -
B1	0.1 - 0.19 m	Brown (7.5YR4/2-Moist); ; Silty light clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , , Sharp, Smooth change to -
B21	0.19 - 0.38 m	Dark reddish brown (5YR3/4-Moist); ; Silty heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Siltstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.3); Clear, Smooth change to -
B22	0.38 - 0.6 m	Dark reddish brown (2.5YR3/3-Moist); ; Silty medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Siltstone, coarse fragments; , Calcareous, , , , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.6); Clear, Smooth
B23k	0.6 - 1 m	Reddish brown (2.5YR4/3-Moist); ; Silty medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Siltstone, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , , Soil matrix is Moderately calcareous; Clear, Smooth change to -
C	1 - 1.1 m	; Smooth-ped fabric; Dry; Very strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9 (Raupach,

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
Project Code: DLR **Site ID:** 697 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
Project Code: DLR **Site ID:** 697 **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 Acidity			%
				cmol (+)/kg			

0 - 0.1	6.4A
0.6 - 1	9.8A

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1
0.6 - 1

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g - m ³ /m ³				mm/h	mm/h

0 - 0.1
0.6 - 1

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
Project Code: DLR **Site ID:** 697 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension