

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 337 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	30/07/91	Elevation:	340 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7741959 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	430706 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Existing vertical exposure, Rhyolite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	6 %	Aspect:	20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol Thin Very gravelly Loamy Clayey Moderately deep		Principal Profile Form:	Dr2.13
ASC Confidence:		Great Soil Group:	Non-calciic brown soil
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, Very sparse. *Species includes - Chrysopogon fallax, Aristida species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Atalaya hemiglauca
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 50-90%, coarse gravelly, 20-60mm, subrounded, Rhyolite

Profile Morphology

A1	0 - 0.03 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 50-90%, medium gravelly, 6-20mm, subrounded, dispersed, Rhyolite, coarse fragments; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to -
B1	0.03 - 0.12 m	Dark reddish brown (5YR3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Rhyolite, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear, Smooth change to -
B21	0.12 - 0.5 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.3); Clear, Smooth change to -
B22	0.5 - 0.7 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.6);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.03 - 0.12	6.5A		12B	3.8	0.19	0.11				
0.12 - 0.5	7.4A									
0.5 - 0.7	8.1A		29B	5.3	0.05	0.07		16.3l		0.43
			13.9J	4.3	0	0.1				0.61

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.03 - 0.12												
0.12 - 0.5												
0.5 - 0.7												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	15 Bar	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar		mm/h	mm/h
			g/g - m3/m3			
0.03 - 0.12						
0.12 - 0.5						
0.5 - 0.7						

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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
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