

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 285 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	01/07/91	Elevation:	240 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7768991 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	452195 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Existing vertical exposure, Gabbro

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	110 degrees

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Self-Mulching Red Vertosol Medium Gravelly Medium fine Very fine Moderately deep	Principal Profile Form:	Ug5.36
ASC Confidence:	Great Soil Group:	Red 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 pertusa, Bothriochloa ewartiana

Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Bursaria incana

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra,

Eucalyptus

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, rounded, Quartz

Profile Morphology

A11	0 - 0.02 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Many, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.02 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear, Wavy change to -
B2	0.1 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 7.5 (Raupach, 0.3); Clear, Smooth change to -
B3	0.4 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , Field pH 8.5 (Raupach, 0.6); Clear, Wavy change to -

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0.02 - 0.1	8.3A								
0.1 - 0.4	8.1A		33.7J	12.6	0.3	0.1	48.7I		0.2I
0.4 - 0.6	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