

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 228 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	04/06/91	Elevation:	380 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7785098 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	488057 Datum: AGD66	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Paralithic Orthic Tenosol Thin Non-gravelly Sandy		Principal Profile Form:	Uc4.2
Sandy Moderately deep		Great Soil Group:	Siliceous sand

ASC Confidence:

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 - Aristida species, Bothriochloa pertusa, Heteropogon contortus Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Eucalyptus shirleyi, Eucalyptus setosa, Acacia species

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus setosa, Eucalyptus shirleyi

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Dark brown (10YR3/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.09 - 0.25 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Loose consistence; , Calcareous, , , , Gypseous, , , ; Few, very fine (0-1mm) roots; Gradual, Smooth
B1	0.25 - 0.4 m	Strong brown (7.5YR5/6-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 0.3); Clear, Smooth change to -
B21	0.4 - 0.65 m	Reddish yellow (7.5YR6/8-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 4 (Raupach, 0.65);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC Ca	Exchangeable Mg	Cations K		Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
m		dS/m							
0 - 0.09	5.7A								
0.25 - 0.4	6A	1.1J	0.4	0.2	0.2		1.5I		13.33
0.4 - 0.65	6.4A								

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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