

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 440 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Barry, Earl	Locality:	
Date Desc.:	15/10/91	Elevation:	269 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7700790 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	423733 Datum: AGD66	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Regolithic Orthic Tenosol Medium Non-gravelly Sandy	Principal Profile Form:	Uc5.11
Sandy Moderately deep	Great Soil Group:	Earthy 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, 0.51-1m, Mid-dense. *Species includes - Aristida species
Mid Strata - Tree, 6.01-12m, Sparse. *Species includes - Melaleuca species, Eucalyptus melanophloia
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus polycarpa, Eucalyptus

melanophloia

Surface Coarse Fragments: 50-90%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR4/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Gradual change to -
B1	0.1 - 0.4 m	Reddish yellow (5YR6/6-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.3); Gradual change to -
B2	0.4 - 0.6 m	Yellowish red (5YR5/8-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach,

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				%
0.4 - 0.6	7A		0.5J	0.6	0.1	0.2		1.4I		14.29

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			%		
0.4 - 0.6												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
0.4 - 0.6					g/g -	m3/m3				

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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