

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 25 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	27/06/90	Elevation:	170 metres
Map Ref.:	Sheet No. : 8356 GPS	Rainfall:	No Data
Northing/Long.:	7722874 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	508889 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Basalt

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	130 degrees

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Self-Mulching Brown Vertosol Non-gravelly Medium fine Very fine Moderately deep	Principal Profile Form:	Ug5.32
ASC Confidence:	Great Soil Group:	Brown clay

All necessary analytical data are available.

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

Vegetation: Low Strata - , , . *Species includes - Bothriochloa pertusa, Bothriochloa decipiens, Chrysopogon fallax
Mid Strata - , , . *Species includes - Eucalyptus papuana, Eucalyptus erythrophloia, Acacia farnesiana
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, subangular, Tuff

Profile Morphology

A1	0 - 0.03 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Common, very fine (0-1mm) roots;
B2	0.03 - 0.75 m	Dark brown (10YR3/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.05); Common, very fine (0-1mm) roots;
C	0.75 - 0.9 m	Yellowish brown (10YR5/8-Moist); ; Medium clay; Strong grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Basalt, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.03	8.6A		48B	5.9	0.86	0.11			
0.03 - 0.75	8.7A		38E	6.6	0.45	0.42	52B		0.81
			43.3J	4.4	0.5	0.1	42.8I		0.98
									0.19
									0.23
0.75 - 0.9	9.5A								

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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