

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 82 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	27/07/90	Elevation:	360 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7772926 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	413628 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 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:	2.5 %	Aspect:	210 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Self-Mulching Black Vertosol Gravelly	Principal Profile Form:	Ug5.12
Medium fine Very fine Shallow	Great Soil Group:	Black earth

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, Closed or dense. *Species includes - Heteropogon contortus, Bothriochloa pertusa, Bothriochloa ewartiana Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Acacia bidwillii

Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular, Granodiorite

Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Medium, (5 - 10) mm crack; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Gabbro, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 7.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.05 - 0.3 m	Black (10YR2/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Gabbro, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Many, medium (2-5mm) roots; Abrupt, Smooth change
C	0.3 - 1.2 m	Light reddish brown (2.5YR6/3-Moist); ; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6);

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	Acidity	%
						Cmol (+)/kg		
0 - 0.05	7.5A		22B	5.2	0.37	0.06		
0.05 - 0.3	8.3A							
0.3 - 1.2	8.9A		31B	2.9	0.05	0.19	28I	0.68
			29.9J	3.3	0.1	0.2		0.71

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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