

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 519 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	11/04/91	Elevation:	240 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7766739 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	487003 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	30 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Lithocalcic Red Dermosol Thin Non-gravelly Clayey Clayey Shallow		Principal Profile Form:	Uf
ASC Confidence:		Great Soil Group:	No suitable

All necessary analytical data are available.

Site Disturbance: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa pertusa
Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Eucalyptus erythrophloia
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.05); Few, very fine (0-1mm) roots;
B	0.05 - 0.28 m	Dark brown (7.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Few, very fine (0-1mm) roots;
BC	0.28 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Substrate material, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8 (Raupach, 0.3);
Ck	0.4 - 1.1 m	; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg			%
0 - 0.05	6.9A								
0.28 - 0.4	7.2A		25.3J	4.2	0.1	0.4	26.2I		1.53
0.4 - 1.1	8.8A								

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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