

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 553 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	21/06/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7782097 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	415151 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Epipedal Brown Vertosol Non-gravelly Medium fine Very fine Moderately deep	Principal Profile Form:	Ug5.13
ASC Confidence: Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Brown clay

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Chloris gayana, Sporobolus species
Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Lysiphillum carronii, Eremophila mitchellii
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Acacia harpophylla, Eucalyptus brownii

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 7 (Raupach, 0.05);
B1	0.08 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , Gypseous, , ;
B2	0.25 - 0.6 m	Dark brown (10YR3/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Field pH 5.6 (Raupach, 0.6);
2Bc	0.6 - 0.78 m	Yellowish brown (10YR5/6-Moist); ; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , , Gypseous, , ;
2C	0.78 - 0.95 m	Yellowish brown (10YR5/6-Moist); ; Moderately moist; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 5.6 (Raupach, 0.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.08	5.8A		6.6J	4.9	0.1	0.3	12.7I		2.36
0.25 - 0.6	5.8A		7.2J	7.3	0.1	0.7	17.1I		4.09
0.6 - 0.78	4.6A								
0.78 - 0.95	4.4A								

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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