

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 391 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	15/08/91	Elevation:	260 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7728705 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	406291 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Mesonatric Brown Sodosol Thick Non-gravelly Silty Clayey Very deep	Principal Profile Form:	Db1.33
ASC Confidence:	Great Soil Group:	Solodic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa ewartiana, Chrysopogon fallax
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark brown (10YR3/3-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A2j	0.06 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; ; Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B21	0.3 - 0.6 m	Dark brown (10YR3/3-Moist); ; Silty light clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.4); Gradual, Smooth change to -
2A1	0.6 - 1.2 m	Dark greyish brown (10YR4/2-Moist); Mottles, 7.5YR56, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Sandy loam; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 0.9); Abrupt, Smooth change to -
2A21e	1.2 - 1.42 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR56, 20-50% , 5-15mm, Prominent; Mottles, 7.5YR46, 20-50% ; Clayey sand; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ;
2A22e	1.42 - 1.7 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR56, 20-50% , 5-15mm, Prominent; Mottles, 7.5YR46, 20-50% ; Loamy sand; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 1.7);

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 - 0.06	6.1A								
0.3 - 0.6	7.8A		6.5J	3.9	0.2	2.2	16.8I		13.10
1.42 - 1.7	9.7A								

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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