

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 459 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Bright, J (Mitch)	Locality:	
Date Desc.:	18/10/91	Elevation:	270 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7677184 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	406578 Datum: AGD66	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	80 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodic Eutrophic Brown Chromosol Very thick Non-gravelly Silty Silty Deep		Principal Profile Form:	Db1.12
ASC Confidence:		Great Soil Group:	Brown podzolic 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
Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Eucalyptus coolibah
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus tereticornis, Eucalyptus coolibah

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Silty loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.05);
A2	0.2 - 0.75 m	Brown (7.5YR4/3-Moist); ; Loamy sand; Massive grade of structure; Dry; Loose consistence; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.3); Field pH 9 (Raupach, 0.6);
2A1	0.75 - 0.95 m	Very dark grey (10YR3/1-Moist); ; Silty loam; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.9);
2B2	0.95 - 1.2 m	Dark brown (10YR3/3-Moist); ; Silty light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ,

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 - 0.2	7.2A							
0.2 - 0.75	7.5A		2.9J	1.3	0.3	0.9	3.8I	23.68
0.95 - 1.2	7A		7.5J	3.2	0.5	0.2	12.2I	1.64

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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