

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 90 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	07/08/90	Elevation:	260 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7733963 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	400495 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	140 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Hypernatric Brown Sodosol Thin Non-gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	Dy2.33
ASC Confidence:	Great Soil Group:	Solodic soil

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Shrub, 0.51-1m, Mid-dense. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Eremophila mitchellii, Lysipillum carronii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Acacia argyrodendron, Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A2j	0 - 0.09 m	Brown (10YR4/3-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21c	0.09 - 0.7 m	Brown (10YR5/3-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Clear, Smooth change to -
B22	0.7 - 0.85 m	Yellowish brown (10YR5/4-Moist); ; Fine sandy light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Densipan, Strongly cemented, Continuous, Massive; Field pH 8.5 (Raupach, 0.85);

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 - 0.09	6.8A		5.2B	3	0.49	0.34		
0.09 - 0.7	8.1A		7.9J	6.4	0.1	5.5	20.5I	26.83
0.7 - 0.85	8.5A							

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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