

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 98 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	09/08/90	Elevation:	215 metres
Map Ref.:	Sheet No. : 8254 GPS	Rainfall:	No Data
Northing/Long.:	7612628 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	464773 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Mottled-Mesonatric Yellow Sodosol Medium Non-gravelly Sandy Clayey Shallow	Principal Profile Form:	Dy3.43
ASC Confidence:	Great Soil Group:	Solodized solonetz
All necessary analytical data are available.		

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Mid-dense. *Species includes - Triodia mitchellii, Heteropogon contortus
Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Eucalyptus shirleyi, Eremophila mitchellii,
Acacia coriacea
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus shirleyi, Melaleuca species, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Strong brown (7.5YR4/6-Moist); ; Loamy sand (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ;
A21c	0.03 - 0.15 m	Yellowish red (5YR5/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05);
A22ec	0.15 - 0.17 m	White (10YR8/1-Moist); ; Sand; Massive grade of structure; Strong grade of structure, 20-50 mm, Prismatic; Earthy fabric; Dry; Weak consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , ;
B21	0.17 - 0.38 m	Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0.3);
B22	0.38 - 0.45 m	Greyish brown (10YR5/2-Moist); Mottles, 10YR66, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, 0.45);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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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