

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 183 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	10/10/90	Elevation:	480 metres
Map Ref.:	Sheet No. : 7860 GPS	Rainfall:	No Data
Northing/Long.:	7929100 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	269481 Datum: AGD66	Drainage:	Moderately well 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:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Sodic Calcareous Brown Ferrosol Thin Non-gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	Gn3.23
ASC Confidence:	Great Soil Group:	No suitable group

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Heteropogon contortus, Heteropogon triticeus

Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus polycarpa

polycarpa

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Brown (10YR4/3-Moist); ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.05 - 0.24 m	Dark yellowish brown (10YR4/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , Gypseous, , ; Many, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.24 - 0.38 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21t	0.38 - 0.65 m	Olive brown (2.5Y4/4-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22tk	0.65 - 0.7 m	Olive brown (2.5Y4/5-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	6.3A		5.7B	4	0.83	0.09				
0.24 - 0.38	6.9A									
0.38 - 0.65	7.7A		6.1E	8.9	0.24	2.8		19.2I		14.58
			6.5J	10	0.1	3.8				19.79

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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
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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