

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 187 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	07/08/90	Elevation:	255 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7730374 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	418908 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:	140 degrees

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Subnatic Yellow Sodosol Medium Non-gravelly	Principal Profile Form:	Db1.13
Clay-loamy Clayey Very deep	Great Soil Group:	Solodic soil

ASC Confidence:
No analytical data and little or no knowledge of this soil.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Sporobolus caroli, Bothriochloa ewartiana
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Lysiphillum carronii, Acacia harpophylla

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia harpophylla, Eucalyptus cambageana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Clay loam, fine sandy; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.1 - 0.35 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 9.9 (Raupach, 0.3); Many, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.35 - 1.7 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 9.9 (Raupach, 0.9); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B23	1.7 - 2.1 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR56, 2-10% , 5-15mm, Faint; Mottles, 2-10% ; Medium clay; Smooth-ped fabric; Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 9.9 (Raupach, 1.8);

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 - 0.1	7.4A								
0.1 - 0.35	8.9A								
0.35 - 1.7	8.8A		6.5E	7.3	0.32	6.9		21B	32.86
1.7 - 2.1	8.7A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - 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
4A1	pH of 1:5 soil/water suspension