

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 185 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	24/07/90	Elevation:	280 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7802248 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	405923 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:	180 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Brown Vertosol Non-gravelly		Principal Profile Form:	Ug5.33
Medium fine Very fine Very deep		Great Soil Group:	Brown clay

ASC Confidence:

No analytical data are available but confidence is fair.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Sporobolus elongatus, Sporobolus species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia salicina, Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus crebra

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, rounded, Basalt

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 0.05); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21k	0.05 - 1 m	Dark yellowish brown (10YR3/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , Field pH 9 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22	1 - 1.3 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , Gypseous, , , Field pH 9 (Raupach, 1.2); Clear, Smooth change to -
B23	1.3 - 2 m	Grey (10YR6/1-Moist); Mottles, 10YR56, 20-50% , 5-15mm, Distinct; Mottles, 7.5YR58, 20-50% ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , Gypseous, , , Field pH 7 (Raupach, 2);

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 - 0.05	7.9A								
0.05 - 1	8.6A								
1 - 1.3	8.1A		13B	16	0.28	5.8		34B	17.06
			13E	14	0.33	4.4			12.94
1.3 - 2	6.9A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,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 (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