

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 95 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	08/08/90	Elevation:	226 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7678816 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	407462 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:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Subnatic Brown Sodosol Thick Non-gravelly Sandy Clayey Deep	Principal Profile Form:	Dy2.43
ASC Confidence:	Great Soil Group:	Solodic soil

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

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa ewartiana, Aristida species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus melanophloia, Acacia species, Planchonia
careya

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus melanophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots;
A2	0.1 - 0.45 m	Dark yellowish brown (10YR4/5-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; ; Calcareous, , , ; Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Few, fine (1-2mm) roots;
A2c	0.45 - 0.52 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; ; Calcareous, , , ; Gypseous, , ; Few, fine (1-2mm) roots;
B21c	0.52 - 0.99 m	Light olive brown (2.5Y5/5-Moist); Mottles, 10YR46, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Medium clay; Strong grade of structure, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; ; Calcareous, , , ; Gypseous, , ; Field pH 9 (Raupach, 0.9);
B22k	0.99 - 1.45 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; 20-50 mm; Smooth-ped fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; ; Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9.9 (Raupach, 1.2);

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	Acidity			%
						Cmol (+)/kg				
0 - 0.1	6.5A		3.7B	1.3	0.33	0.07				
0.1 - 0.45	6.9A		1.6J	0.7	0.2	0.1		2.1l		4.76
0.52 - 0.99	8.6A									
0.99 - 1.45	9.3A		20B	6.7	0.56	4		15B		26.67
			4.3E	5.9	0.64	3.4				22.67

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.45												
0.52 - 0.99												
0.99 - 1.45												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m					g/g -	m3/m3		mm/h	mm/h

0 - 0.1
 0.1 - 0.45
 0.52 - 0.99
 0.99 - 1.45

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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
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