

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** T508 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	04/12/91	Elevation:	221 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7745384 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	491276 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	160 degrees

Surface Soil Condition (dry): Soft

Erosion: 1 m,20 m;

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Paralithic Orthic Tenosol Medium Non-gravelly Sandy	Principal Profile Form:	Uc5.11
Sandy Moderately deep	Great Soil Group:	Earthy sand

ASC Confidence:
All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - Heteropogon contortus, Aristida species, Cyperus

Mid Strata - , , , *Species includes - None recorded

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

Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.06 m	Dark brown (10YR3/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.06 - 0.18 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.1); Few, fine (1-2mm) roots; Gradual, Wavy change to -
B1	0.18 - 0.47 m	Strong brown (7.5YR4/6-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.4); Few, fine (1-2mm) roots; Diffuse, Wavy change to -
B2	0.47 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Clayey coarse sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.7); Few, fine (1-2mm)

Morphological Notes

Observation Notes

SURFACE HORIZON WATER REPELLANT./FLANNELWEEDS, CROTALARIA SPECIES. DLR 1014;

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			%
							(+)/kg			
0 - 0.06	6.35A	0.15A	4.7B	1.3	1.2	0.43		6I		7.17
			3.92J	0.83	0.22	0.02				0.33
0.06 - 0.18	6.51A	0.06A	2.72J	0.71	0.18	0.02		3.4I		0.59
0.18 - 0.47	6.65A	0.01A	1.7B	0.64	0.91	0.44				
0.47 - 0.9	6.34A	0.08A	1.35J	0.48	0.06	0.02		3.1D		0.65
								1.6I		1.25

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		2.1B		0.027A	0.09A	2.63A			64A	20	10	6
0.06 - 0.18		0.7B							61A	21	11	7
0.18 - 0.47												
0.47 - 0.9		0.1B							61A	25	6	8

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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
15D2_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
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)
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method