

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 12 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	21/06/90	Elevation:	215 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7772774 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	455875 Datum: AGD66	Drainage:	Imperfectly 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	350 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Mottled Eutrophic Brown Chromosol Very thick Non-gravelly Sandy Clayey Very deep	Principal Profile Form:	Dy5.42
ASC Confidence:	Great Soil Group:	No suitable group
All necessary analytical data are available.		

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

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus, Heteropogon triticeus, Phynchelytrum repens
Mid Strata - , , . *Species includes - Eucalyptus erythrophloia, Acacia bidwillii, Eremophila mitchellii
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus papuana, Eucalyptus crebra, Eucalyptus

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0.05); Few, fine (1-2mm) roots; Gradual, Smooth change to -
A21	0.15 - 0.6 m	Brown (7.5YR4/4-Moist); ; Clayey coarse sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A22e	0.6 - 0.65 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Abrupt, Tongued change to -
B21c	0.65 - 1.3 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5Y46, 20-50% , 5-15mm, Distinct; Mottles, 7.5YR30, 20-50% ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 1); , very fine (0-1mm) roots; Clear, Smooth change to -
B22	1.3 - 1.85 m	Strong brown (7.5YR4/6-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 1.5); Clear, Smooth change to -
B3	1.85 - 2.1 m	Yellowish red (5YR4/6-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , 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 - 0.15	7.8A		2.7B	0.84	0.46	0.03			
0.15 - 0.6	7.9A								
0.6 - 0.65	8.3A		3.6B	1.4	0.25	0.05			
0.65 - 1.3	8.2A		6.9J	2.9	0.7	0	13.8l		0.00
1.3 - 1.85	8.5A		5.2B	2.1	0.33	0.09			
1.85 - 2.1	8.4A		5.1B	1.9	0.29	0.09			

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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
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