

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 205 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	09/04/91	Elevation:	260 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7782740 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	458140 Datum: AGD66	Drainage:	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:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Calcic Hypernatric Black Sodosol Medium Non-gravelly Sandy Clayey Deep	Principal Profile Form:	Dd1.33
ASC Confidence:	Great Soil Group:	Solodic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Bothriochloa pertusa, Sporobolus species,
Heteropogon contortus Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Melaleuca bracteata, Acacia farnesiana
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus tessellaris, Eucalyptus papuana, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Brown (7.5YR4/4-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A2j	0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Smooth-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Strong consistence; , Calcareous, , , , Gypseous, , ; Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B21	0.1 - 0.45 m	Black (10YR2/1-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.45 - 0.7 m	Dark grey (10YR4/1-Moist); ; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.6); Gradual, Smooth change to -
B3	0.7 - 1.05 m	Dark grey (2.5Y4/1-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9); Gradual, Smooth change to -
D	1.05 - 1.4 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, 1.2);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
			Ca	Mg	K				
0 - 0.05	6.6A								
0.1 - 0.45	8.6A		7.3J	13	0.1	8	29.5I		27.12
0.45 - 0.7	9.5A		10.2J	8.4	0.1	9.7	22.3I		43.50
0.7 - 1.05	9.4A								
1.05 - 1.4	8.8A								

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Laboratory Analyses Completed for this profile

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