

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 104 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	20/08/90	Elevation:	380 metres
Map Ref.:	Sheet No. : 8159 GPS	Rainfall:	No Data
Northing/Long.:	7855119 AMG zone: 55	Runnoff:	Rapid
Easting/Lat.:	441085 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	30 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Mottled-Mesonatric Brown Sodosol Medium Non-gravelly Loamy Clayey Moderately deep	Principal Profile Form:	Dy3.42
ASC Confidence:	Great Soil Group:	Solodic soil
Analytical data are incomplete but reasonable confidence		

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

Vegetation:

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Eragrostis species, Heteropogon contortus,

Eriachne species Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Melaleuca viridiflora

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus platyphylla, Eucalyptus papuana, Eucalyptus polycarpa

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, rounded, Granulite

Profile Morphology

A11	0 - 0.02 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A21e	0.02 - 0.18 m	Pale brown (10YR6/3-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A22j	0.18 - 0.25 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR68, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Few, very fine (0-1mm) roots; Abrupt, Irregular change to -
B21	0.25 - 0.45 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR58, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granulite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.45 - 0.7 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Prominent; Mottles, 10YR58, 20-50% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Granulite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.7); Abrupt change to -

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0.02 - 0.18	5.9A		0.58B	0.43	0.19	0.05			
0.25 - 0.45	6.3A		1.2J	3.4	0.1	1.3	7I		18.57
0.45 - 0.7	6.7A		0.53E	4.9	0.08	2.6	11B		23.64

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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