

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 172 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	08/10/90	Elevation:	340 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7823610 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	359357 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:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Calcic Brown Chromosol Thin Slightly gravelly Clay-loamy Clayey Deep	Principal Profile Form:	Db1.13
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 - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa pertusa, Aristida species
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus papuana
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 2-10%, stony, 200-600mm, rounded, Basalt

Profile Morphology

A1	0 - 0.05 m	Dark brown (10YR3/3-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.05 - 0.25 m	Dark yellowish brown (10YR3/4-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , , Many, fine (1-2mm) roots; Diffuse, Smooth change to -
B21ct	0.25 - 0.7 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.6); Many, fine (1-2mm) roots; Clear, Smooth change to -
B22ckt	0.7 - 1.45 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , , ; Soil matrix is Slightly calcareous; Field pH 8.7 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 172 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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 - 0.05	6.6A		12B	8.1	1.5	0.21		
0.25 - 0.7	7.5A		15B	9.2	0.13	0.61	24.1I	2.53
			15.1J	8.7	0.1	0.6		2.49
0.7 - 1.45	8.4A		17E	10	0.1	0.75	27B	2.78

[illegible][illegible]

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 172 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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