

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** T522 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	09/12/91	Elevation:	386 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7749198 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	436563 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	EOW	Substrate Material:	Undisturbed soil core, 1.1 m deep, Rhyolite

Land Form

Rel/Slope Class:	Undulating hills 90-300m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	6 %	Aspect:	80 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: 1 m, 20 m;

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Subnatric Brown Sodosol Medium Moderately gravelly Loamy Clayey Deep	Principal Profile Form:	Dy2.33
ASC Confidence:	Great Soil Group:	No suitable

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - , , . *Species includes - Chrysopogon fallax, Bothriochloa species, Heteropogon contortus
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus crebra
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus crebra, Eucalyptus

papuana

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, angular tabular, Rhyolite

Profile Morphology

A11	0 - 0.03 m	Brown (7.5YR4/2-Moist); ; Sandy loam (Heavy); Moderate grade of structure, 2-5 mm, Platy; Earthy fabric; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Quartzite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.03); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
A2j	0.03 - 0.27 m	Brown (7.5YR5/4-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, dispersed, Quartzite, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Clear, Wavy change to -
B11	0.27 - 0.47 m	Strong brown (7.5YR5/6-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, dispersed, Quartzite, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.4); Gradual, Wavy change to -
B12	0.47 - 0.75 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR48, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, angular, dispersed, Quartzite, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Clear, Wavy change to -
B2	0.75 - 1.05 m	Yellowish brown (10YR5/8-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartzite, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.85);

Morphological Notes

Observation Notes

B2 CLAY DOES NOT DISPERSE IN DISTILLED WATER - DISPERSED AFTER 2HRS. A1->B11 HAS 20MM - 80MM RHYOLITE? GRAVELS. /OTHER GRASSES - ARISTIDA SPP, DICANTHIUM SPP. DLR1028

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Laboratory Test Results:

[illegible]

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis		
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03									15A	44	22	19
0.03 - 0.27												
0.27 - 0.47									23A	31	15	30
0.47 - 0.75												
0.75 - 1.05									7A	18	11	64

[illegible]

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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
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)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
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