

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 637 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 29/05/91	Elevation: No Data
Map Ref.: Sheet No. : 8159-3 GPS	Rainfall: No Data
Northing/Long.: 7838566 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 429337 Datum: AGD66	Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%	Pattern Type: Hills
Morph. Type: Crest	Relief: No Data
Elem. Type: Hillcrest	Slope Category: Very gently sloped
Slope: 2 %	Aspect: 210 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Mottled-Subnatic Brown Sodosol Medium Non-gravelly Loamy Clayey Deep	Principal Profile Form: Dy3.43
ASC Confidence:	Great Soil Group: Solodic soil

No analytical data are available but confidence is fair.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus, Bothriochloa species
 Mid Strata - , , . *Species includes - None recorded
 Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Eucalyptus shirleyi

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Sandstone

Profile Morphology

A11	0 - 0.05 m	Brown (10YR4/3-Moist); ; Loamy sand; Moderate grade of structure, 5-10 mm, Platy; Earthy fabric; Dry; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear change to -
A21j	0.05 - 0.15 m	Yellowish brown (10YR5/4-Moist); Substrate influence, 10YR66, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Sandy loam (Light); Moderate grade of structure, 20-50 mm, Platy; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.15); Common, fine (1-2mm) roots; Clear
A22e	0.15 - 0.25 m	Yellowish brown (10YR5/4-Moist); Substrate influence, 10YR66, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; Loamy sand; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Silcrete, coarse fragments; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.25); Few, fine (1-2mm) roots;
B21	0.25 - 0.7 m	Light olive brown (2.5Y5/6-Moist); Substrate influence, 10YR43, 10-20% , 5-15mm, Distinct; Substrate influence, 2.5YR46, 10-20% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; ; Calcareous, ; ; Gypseous, ; ; Field pH 6.8 (Raupach, 0.35); Few, fine (1-2mm) roots;
B22	0.7 - 0.85 m	Dark yellowish brown (10YR4/4-Moist); Substrate influence, 10YR68, 10-20% , 5-15mm, Distinct; Substrate influence, 10-20% ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; ; Gypseous, ; ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.85);
BC	0.85 - 1.05 m	Brownish yellow (10YR6/6-Moist); Substrate influence, 10YR68, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; ; Calcareous, ; ; Gypseous, ; ;

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C 1.05 - 1.1 m ; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension