

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 500 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 08/04/91	Elevation: 300 metres
Map Ref.: Sheet No. : 8258 GPS	Rainfall: No Data
Northing/Long.: 7802384 AMG zone: 55	Runoff: Slow
Easting/Lat.: 459109 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, Granodiorite

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Plain
Morph. Type: Crest	Relief: No Data
Elem. Type: Plain	Slope Category: Level
Slope: 1 %	Aspect: 60 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Supracalcic Subnatric Black Sodosol Medium Non-gravelly	Principal Profile Form: Dd1.43
Clay-loamy Clayey Deep	
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, Mid-dense. *Species includes - Bothriochloa pertusa, Eragrostis species, Carissa lanceolata Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus brownii, Grevillea striata

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.01 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam (Light); Weak grade of structure, 2-5 mm; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Common, very fine (0-1mm) roots; Sharp, Smooth change to -
A12	0.01 - 0.13 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 5.8 (Raupach, 0.05); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
A2e	0.13 - 0.18 m	Brown (10YR4/3-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.18 - 0.25 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; , Calcareous, , , , Gypseous, , , Few, fine (1-2mm) roots; Sharp, Wavy change to -
B22	0.25 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.3); Diffuse, Wavy change to -
B23	0.4 - 0.6 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach, 0.6); Abrupt, Wavy change to -
B24	0.6 - 1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.9); Sharp, Wavy change to -

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BC	1 - 1.25 m	Brown (10YR4/3-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Moderately moist; Very firm consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.2); Abrupt, Wavy change to -
C	1.25 - 1.9 m	; Sandy clay loam; Weak grade of structure, 5-10 mm; Earthy fabric; Moderately moist; Weak consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.9);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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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
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