

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 157 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 18/09/90	Elevation: 260 metres
Map Ref.: Sheet No. : 8256 GPS	Rainfall: No Data
Northing/Long.: 7723726 AMG zone: 55	Runoff: Very rapid
Easting/Lat.: 478439 Datum: AGD66	Drainage: Moderately well drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Igneous rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Gently inclined
Slope: 3 %	Aspect: 210 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Subnatric Red Sodosol Thin Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form: Dr2.11
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: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - Eragrostis species
 Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Albizia basaltica, Acacia species
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/3-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 20-50 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Abrupt, Tongued change to -
B1	0.08 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Tongued change to -
B21	0.3 - 0.62 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22c	0.62 - 0.75 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Veins; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B23	0.75 - 1.15 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 5 (Raupach, 0.9); Abrupt, Smooth change to -
C	1.15 - 1.45 m	; , Calcareous, , ; , Gypseous, , ; Field pH 5.7 (Raupach, 1.45);

Morphological Notes

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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 (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