

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 303 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> M. DeCorte	<b>Locality:</b>
<b>Date Desc.:</b> 04/07/91	<b>Elevation:</b> 260 metres
<b>Map Ref.:</b> Sheet No. : 8157 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7783660 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 446602 Datum: AGD66	<b>Drainage:</b> Well drained

#### Geology

<b>ExposureType:</b> No Data	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> Undisturbed soil core, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b> Undulating rises 9-30m 3-10%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 3 %	<b>Aspect:</b> 190 degrees

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Hypocalcic Red Chromosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b> Dr2.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Red-brown earth

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Closed or dense. \*Species includes - Bothriochloa pertusa, Bothriochloa ewartiana,  
 Heteropogon contortus Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Eremophila mitchellii, Acacia bidwillii  
 Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.05 m	Reddish brown (5YR4/3-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Dry; Strong consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.05 - 0.22 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; ; Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.22 - 0.82 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.82 - 1.1 m	Yellowish red (5YR3/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8.5 (Raupach, 0.9); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	1.1 - 1.3 m	; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.2);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

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**Laboratory Analyses Completed for this profile**

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