

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 196 **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>	08/04/91	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7784706 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	456713 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, Dolerite

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<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 Dermosol Medium Non-gravelly Loamy Clayey Deep		<b>Principal Profile Form:</b>	Gn3.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Closed or dense. \*Species includes - Bothriochloa pertusa, Cenchrus ciliaris,  
Bothriochloa decipiens Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Eucalyptus papuana, Eucalyptus crebra

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

#### Profile Morphology

A11	0 - 0.02 m	Dark reddish brown (5YR2/3-Moist); ; Loam; Strong grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Common, medium (2-5mm) roots; Clear, Smooth change to -
A12	0.02 - 0.2 m	Dark reddish brown (2.5YR2/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.2 - 0.75 m	Dusky red (10R3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.6); Many, fine (1-2mm) roots; Clear, Smooth change to -
B3	0.75 - 1.02 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8 (Raupach, 0.9); Many, very fine (0-1mm) roots; Clear, Smooth change to -
C	1.02 - 1.6 m	; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 1.6);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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