

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 133                      **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>	04/09/90	<b>Elevation:</b>	635 metres
<b>Map Ref.:</b>	Sheet No. : 8957    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7767762 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	293458    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, Basalt

#### 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>	0 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Manganic Eutrophic Brown Ferrosol Medium Non-gravelly Clayey Clayey Moderately deep	<b>Principal Profile Form:</b>	Uf6.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Euchrozem

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, Sparse. \*Species includes - Bothriochloa ewartiana, Heteropogon contortus,

Bothriochloa decipiens    Mid Strata - , , . \*Species includes - None recorded

Tall Strata - , , . \*Species includes - Eucalyptus quadricostata

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

#### Profile Morphology

A1	0 - 0.18 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; ; Calcareous, , ; ; Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.18 - 0.3 m	Brown (7.5YR4/2-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; ; Calcareous, , ; ; Gypseous, , ; Field pH 7 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21c	0.3 - 0.55 m	Strong brown (7.5YR4/6-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Very many (50 - 100 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; ; Calcareous, , ; ; Gypseous, , ; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B3	0.55 - 0.8 m	Yellowish brown (10YR5/6-Moist); Substrate influence, 10YR68, 20-50% , 5-15mm, Distinct; Substrate influence, 10YR62, 20-50% ; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; ; Calcareous, , ; ; Gypseous, , ; Field pH 8.5 (Raupach, 0.8);

#### 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 <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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