

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 168 **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>	21/09/90	<b>Elevation:</b>	670 metres
<b>Map Ref.:</b>	Sheet No. : 7860 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7951458 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	266124 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>Exposure Type:</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>	140 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 Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Gn3.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Xanthozem

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Heteropogon contortus, Themeda triandra,  
Bothriochloa pertusa Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra,  
Eucalyptus polycarpa

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus polycarpa

**Surface Coarse Fragments:** 0-2%, coarse gravelly, 20-60mm, rounded, Basalt

#### Profile Morphology

A1c	0 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Gradual, Smooth change to -
B21c	0.15 - 0.55 m	Brown (7.5YR4/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Weak consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Many, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

**Laboratory Test Results:**

[illegible]

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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
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