

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 99 **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>	09/08/90	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8054 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7593538 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	389848 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	No Data

#### 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>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Mottled-Subnatric Yellow Sodosol Medium Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.32
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Lateritic podzolic soil
Analytical data are incomplete but reasonable confidence.		

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Very sparse. \*Species includes - Chrysopogon fallax, Eragrostis species  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eremophila mitchellii, Eucalyptus brownii, Acacia

species

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus crebra

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

#### Profile Morphology

A11	0 - 0.02 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Moderate grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.02 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A2j	0.05 - 0.25 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Few, very fine (0-1mm) roots; Clear, Smooth change to -
B1c	0.25 - 0.55 m	Brownish yellow (10YR6/6-Moist); ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Diffuse, Smooth change to -
B21c	0.55 - 0.95 m	Olive yellow (2.5Y6/6-Moist); Mottles, 2.5Y78, 20-50% , 0-5mm, Faint; Mottles, 20-50% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.9);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0.02 - 0.05	6.2A		1.8B	0.84	0.26	0.07				
0.25 - 0.55	6.2A									
0.55 - 0.95	6.9A		1.7B	1.6	0.31	0.14		5.3I		2.64
			1.7J	1.5	0.3	0.3				5.66

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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