

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 186 **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>	25/07/90	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7802500 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	395745 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>	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>	0 degrees

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous Self-Mulching Grey Vertosol Non-gravelly		<b>Principal Profile Form:</b>	Ug5.24
Medium fine Very fine Very deep		<b>Great Soil Group:</b>	Grey clay

#### **ASC Confidence:**

No analytical data are available but confidence is fair.

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

#### Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Sporobolus species, Chloris gayana  
 Mid Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Terminalia oblongata  
 Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Acacia cambagei

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, angular, Quartz

#### Profile Morphology

A1	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21k	0.08 - 0.78 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Field pH 8.7 (Raupach, 0.3); Common, medium (2-5mm) roots; Abrupt, Smooth change to -
B22	0.78 - 1.15 m	Light brownish grey (2.5Y6/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , ; Field pH 8.3 (Raupach, 0.9); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B23mc	1.15 - 2.1 m	Light brownish grey (2.5Y6/2-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 2.1); Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC		Exchangeable	Cations	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	8.2A								
0.08 - 0.78	7.9A								
0.78 - 1.15	7.3A		11B	15	0.19	9.5		31B	30.65
			11E	14	0.21	6.6			21.29
1.15 - 2.1	6.2A								

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
4A1	pH of 1:5 soil/water suspension