

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** T582 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	18/08/93	<b>Elevation:</b>	270 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7786855 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	427273 Datum: AGD66	<b>Drainage:</b>	No Data

#### 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>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown 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, Mid-dense. \*Species includes - Bothriochloa ewartiana, Heteropogon contortus, Chrysopogon fallax Mid Strata - Shrub, 1.01-3m, Isolated plants. \*Species includes - Erythroxylon australe

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus drepanophylla, Eucalyptus erythrophloia, Eucalyptus papuana

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.03 m	Dark brown (7.5YR3/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0); Clear change to -
A12	0.03 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Clear change to -
B1	0.1 - 0.23 m	Dark reddish brown (2.5YR2/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.2); Clear change to -
B21	0.23 - 0.55 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.5); Clear change to -
B22	0.55 - 0.73 m	Red (2.5YR4/8-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm; Smooth-ped fabric; Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.7);
BC	0.73 - 0.97 m	Yellowish brown (10YR5/4-Moist); Substrate influence, 2.5YR48, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.9);

#### Morphological Notes

#### Observation 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 - 0.03	5.8C 7.8A	0.07A	4.4B	1.5	0.34	0.04				
0.03 - 0.1	5.5C 7.4A	0.06A								
0.1 - 0.23	5.5C 6.8A	0.04A								
0.23 - 0.55	5.6C 6.8A	0.04A	8.5B	2.8	0.44	0.15				
0.55 - 0.73	5.9C 7A	0.03A								
0.73 - 0.97	6.4C 7.6A	0.03A								

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**Laboratory Analyses Completed for this profile**

10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method