

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 693 **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>	31/07/91	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7817216 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	440476 Datum: AGD66	<b>Drainage:</b>	Poorly 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):** Cracking

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Gypsic Epipedal Black Vertosol Non-gravelly Medium fine Very fine Very deep	<b>Principal Profile Form:</b>	Ug5.16
<b>ASC Confidence:</b> All necessary analytical data are available.	<b>Great Soil Group:</b>	Black earth

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Heteropogon contortus, Themeda triandra, Eragrostis species  
Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Planchonia careya, Planchonia careya

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus papuana

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

#### Profile Morphology

A11	0 - 0.05 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear change to -
A12	0.05 - 0.12 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Clear
B21	0.12 - 1.2 m	Very dark grey (2.5Y3/1-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Abrupt change to -
B22y	1.2 - 1.4 m	Dark grey (10YR4/1-Moist); , 10YR58; Medium clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Crystals; Gradual change to -
B23	1.4 - 1.8 m	Yellowish brown (10YR5/8-Moist); , 10YR51; Medium clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 1.5); Diffuse change to -
B24	1.8 - 2.4 m	Yellowish brown (10YR5/8-Moist); , 10YR51; Medium clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 2.4);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

<b>Depth</b>	<b>pH</b>	<b>1:5 EC</b>	<b>Cations</b>	<b>Anions</b>	<b>Sulfate</b>	<b>Nitrate</b>	<b>ECEC</b>	<b>ESP</b>
m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	%
0 - 0.05	6.5A							
0.12 - 1.2	6.1A	33.4J	8	0.2	0.9		39.2I	2.3O
1.2 - 1.4	6.7A							
1.4 - 1.8	7A							
1.8 - 2.4	7A							

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**Laboratory Analyses Completed for this profile**

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