

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 526 **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>	17/06/91	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8356 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7723860 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	505795 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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, Mudstone

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	3 %	<b>Aspect:</b>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous Self-Mulching Black Vertosol Non-gravelly	<b>Principal Profile Form:</b>	Ug5.12
Medium fine Very fine Moderately deep	<b>Great Soil Group:</b>	Black earth

**ASC Confidence:**  
All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa pertusa, Bothriochloa ewartiana

Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Acacia salicina, Lysiphillum carronii

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Acacia salicina, Eucalyptus

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, subrounded, Igneous rock (unidentified)

#### Profile Morphology

A1	0 - 0.02 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.02); Clear, Smooth change to -
B1	0.02 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Gradual, Smooth change to -
B2	0.12 - 0.58 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 0.5); Gradual, Smooth change to -
BC	0.58 - 0.75 m	Olive brown (2.5Y4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.75); Gradual, Irregular change to -
C	0.75 - 1.05 m	Light yellowish brown (2.5Y6/4-Moist); ; Silty medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach,

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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