

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 514 **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> 10/04/91	<b>Elevation:</b> 260 metres
<b>Map Ref.:</b> Sheet No. : 8158 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7793198 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 439490 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> Undisturbed soil core, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Crest	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillcrest	<b>Slope Category:</b> Level
<b>Slope:</b> 2 %	<b>Aspect:</b> 30 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Sodic Supracalcic Brown Chromosol Medium Non-gravelly Sandy Clayey Moderately deep	<b>Principal Profile Form:</b> Dy3.43
<b>ASC Confidence:</b> No analytical data are available but confidence is fair.	<b>Great Soil Group:</b> No suitable

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Eragrostis species, Bothriochloa pertusa,  
Chrysopogon fallax Mid Strata - Shrub, 1.01-3m, Sparse. \*Species includes - Eremophila mitchellii,  
Erythroxylon australe

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

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Clayey coarse sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.8 (Raupach, 0.05); Sharp, Smooth change to -
A12	0.12 - 0.18 m	Dark brown (10YR3/3-Moist); ; Coarse sandy loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, stratified, Metamorphic rock (unidentified), coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Abrupt, Irregular change to -
A2e	0.18 - 0.2 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, stratified, Metamorphic rock (unidentified), coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Abrupt, Irregular
B2	0.2 - 0.6 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR68, 20-50% , 0-5mm, Distinct; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 6.8 (Raupach, 0.3); Sharp, Smooth change to -
BC	0.6 - 1 m	Yellowish brown (10YR5/4-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, rounded, stratified, Metamorphic rock (unidentified), coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9); Clear, Smooth change to -
BC	1 - 1.05 m	; Massive grade of structure; Earthy fabric; Moderately moist; Strong consistence; 20-50%, coarse gravelly, 20-60mm, rounded, stratified, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 1.05);

#### Morphological Notes

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Observation Notes

Site 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