

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 853 **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>	24/10/91	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 8156 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7687137 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	422299 Datum: AGD66	<b>Drainage:</b>	No Data

#### 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, No Data

#### Land Form

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

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

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Cenchrus ciliaris  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, Isolated plants. \*Species includes - Owenia acidula

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

#### Profile Morphology

A11	0 - 0.03 m	Dark grey (5Y4/1-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Clear change to -
A12	0.03 - 0.3 m	Dark grey (5Y4/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.05); Gradual change to -
B21	0.3 - 0.7 m	Dark grey (5Y4/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.6); Diffuse change to -
B22	0.7 - 1.5 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.9); Diffuse change to -
B23	1.5 - 2.1 m	Light olive grey (5Y6/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 2.1);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
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