

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 348 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	31/07/91	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7741963 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	419000 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>	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>	0 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Mottled-Hypernatric Brown Sodosol Thick Gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Db1.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Sporobolus species, Aristida species, Eragrostis species Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eremophila mitchellii

Tall Strata - Tree, 12.01-20m, Closed or dense. \*Species includes - Acacia harpophylla, Eucalyptus

cabbageana

**Surface Coarse Fragments:** 10-20%, medium gravelly, 6-20mm, subrounded, Siltstone

#### Profile Morphology

A1	0 - 0.05 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A21	0.05 - 0.25 m	Brown (7.5YR4/3-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
A22e	0.25 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Abrupt, Smooth change to -
B1	0.3 - 0.4 m	Dark brown (10YR3/3-Moist); Mottles, 7.5YR5/8, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Sandy light clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Siltstone, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Clear, Smooth
B21	0.4 - 0.7 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9.9 (Raupach, 0.6);

#### 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 - 0.05	7.3A									
0.25 - 0.3	7.1A									
0.4 - 0.7	8.1A		2.7J	5.8	0.5	3		12.8I		23.44

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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