

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 61 **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>	24/07/90	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7802248 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	405923 Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Black Dermosol Medium Slightly gravelly Clayey Clayey Very deep	<b>Principal Profile Form:</b>	Dd1.32
<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, Sparse. \*Species includes - Sporobolus elongatus, Sporobolus species  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Acacia salicina, Eucalyptus brownii  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus crebra

**Surface Coarse Fragments:** 2-10%, cobbly, 60-200mm, rounded, Basalt

#### Profile Morphology

A11	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy light clay; Weak grade of structure, 5-10 mm, Platy; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A12c	0.02 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; Many (20 - 50 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 6.3 (Raupach, 0.05); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2jc	0.15 - 0.17 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many (20 - 50 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.17 - 1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; 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, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7.2 (Raupach, 0.6); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B22	1 - 2.1 m	Yellowish brown (10YR5/6-Moist); Mottles, 10YR41, 20-50% , 5-15mm, Distinct; Mottles, 10YR58, 20-50% ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 1.5); Few, very fine (0-1mm) roots;

#### 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 (Ca2+,Mg2+,Na+,K+) - 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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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