

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 269                      **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>	20/06/91	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8157    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7763594 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	430305    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>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<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>	250 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Mottled-Subnatric Brown Sodosol Medium Gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

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, Very sparse. \*Species includes - Chrysopogon fallax, Bothriochloa decipiens,  
Aristida species Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Flindersia maculosa,  
Erythroxylon australe

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

**Surface Coarse Fragments:** 10-20%, coarse gravelly, 20-60mm, subrounded, Quartz

**Profile Morphology**

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.1 - 0.45 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 7.5YR6/8, 20-50% , 5-15mm, Prominent; Mottles, 2.5YR5/8, 20-50% ; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 7
B21	0.45 - 0.7 m	Brown (10YR5/3-Moist); Mottles, 2.5YR5/8, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 0.6);

**Morphological Notes**

**Observation Notes**

**Site 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 - 0.1	6.1A									
0.1 - 0.45	7A									
0.45 - 0.7	8.3A		6.6J	9.5	0.2	2.6		15.2I		17.11

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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