

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1132                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Rogers, Gary	<b>Locality:</b>	
<b>Date Desc.:</b>	22/05/92	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8058    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7824280 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	374932    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>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial 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>	No Data

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep		<b>Principal Profile Form:</b>	Ug5.16
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth

All necessary analytical data are available.

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

**Vegetation:** Low Strata - , , . \*Species includes - Cenchrus species  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - , , . \*Species includes - None Recorded

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

#### Profile Morphology

A11	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay (Heavy); Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Clear change to -
B21	0.12 - 0.8 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Moderately moist; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.7); Gradual change to -
B22	0.8 - 1.5 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Weak grade of structure, Lenticular; Smooth-ped fabric; Moderately moist; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.4); Gradual change to -
B23	1.5 - 2.1 m	Grey (10YR5/1-Moist); Mottles, 10YR63, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Medium clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Moist; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 2.1);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.12	7A		19B	14	0.73	0.7			
0.12 - 0.8	7.1A		21B	13	0.14	2.6			
0.8 - 1.5	6.9A								
1.5 - 2.1	7.1A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension