

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1690 **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>	06/05/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8159 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7852403 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	397752 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Swamp	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Self-Mulching Black Vertosol Non-gravelly Medium fine Very deep	<b>Principal Profile Form:</b>	Ug5.1
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Black earth
Confidence level not specified		

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

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus coolibah

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.03 m	Dark grey (10YR4/1-Moist); ; Strong grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.03);
A12	0.03 - 0.33 m	Very dark grey (10YR3/1-Moist); ; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.25);
B21	0.33 - 1.35 m	Very dark grey (2.5Y3/1-Moist); ; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 8 (Raupach, 0.75);
B22	1.35 - 1.7 m	Dark grey (10YR4/1-Moist); ; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.5);
B23	1.7 - 2 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.8);
B24	2 - 2.2 m	Grey (10YR5/1-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 2.2);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						Cmol (+)/kg				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m					g/g - m3/m3				mm/h mm/h

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Laboratory Analyses Completed for this profile