

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1854 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> Barry, Earl	<b>Locality:</b>
<b>Date Desc.:</b> 07/07/93	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 8155 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7665823 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 404044 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> No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Gypsic Self-Mulching Grey Vertosol Non-gravelly Fine Medium fine Very deep	<b>Principal Profile Form:</b> Ug5.2
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Grey clay

No analytical data are available but confidence is fair.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
 Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Acacia cambagei, Acacia harpophylla  
 Tall Strata - Tree, 3.01-6m, Closed or dense. \*Species includes - Acacia cambagei, Acacia harpophylla

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

#### Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (2.5Y4/2-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.05); Abrupt change to -
A12	0.1 - 0.45 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Rigid consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.4); Clear change to -
B21	0.45 - 0.85 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Rigid consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.8); Gradual change to -
B22	0.85 - 1.3 m	Black (2.5Y2/0-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Crystals; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 1.2); Gradual change to -
B23	1.3 - 1.65 m	Black (2.5Y2/0-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Strong consistence; , Calcareous, , ; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 7.5 (Raupach, 1.6); Gradual change to -
B24	1.65 - 2.1 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y52, 2-10% , 5-15mm, Prominent; Mottles, 2.5YR36, 2-10% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Strong consistence; , Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 5.5 (Raupach, 1.9);

#### Morphological Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD  
Project Code: DLR Site ID: 1854 Observation ID: 1  
Agency Name: QLD Department of Primary Industries

**Site Notes**

**Observation Notes**

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD  
Project Code: DLR Site ID: 1854 Observation ID: 1  
Agency Name: QLD Department of Primary Industries

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC		ESP		
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity				%	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1854                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

Laboratory Analyses Completed for this profile