

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1225 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	30/06/92	Elevation:	340 metres
Map Ref.:	Sheet No. : 8059 GPS	Rainfall:	No Data
Northing/Long.:	7860773 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	394470 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Brown Dermosol Medium Slightly gravelly Clayey Clayey Deep	Principal Profile Form:	Uf6.32
ASC Confidence:	Great Soil Group:	Black earth

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Dichanthium species, Bothriochloa pertusa,
Bothriochloa ewartiana Mid Strata - Shrub, <0.25m, Sparse. *Species includes - Eucalyptus crebra,
Eucalyptus papuana

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.12 m	Dark brown (10YR3/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Abrupt change to -
B21	0.12 - 0.3 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2); Clear change to -
B22	0.3 - 0.55 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.4); Clear change to -
B23	0.55 - 0.85 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 8 (Raupach, 0.7); Clear change to -
B3	0.85 - 1.1 m	Brown (10YR4/3-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; 10-20%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , , Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 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	7.1A		14B	5.8	0.73	0.12			
0.12 - 0.3	7.3A								
0.3 - 0.55	7.5A		30B	7.7	0.16	0.49			
0.55 - 0.75	7.8A								
0.85 - 1.1	8.4A								

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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