

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1179 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	05/06/92	Elevation:	320 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7792038 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	379671 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	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:	Level plain <9m <1%	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, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Sodic Eutrophic Black Dermosol Moderately gravelly Clayey Clayey Deep	Principal Profile Form:	Uf6.32
ASC Confidence:	Great Soil Group:	Grey clay

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, Sparse. *Species includes - Eulalia aurea, Bothriochloa species, Dichanthium species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus brownii

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

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, subrounded, Quartz

Profile Morphology

A11	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear change to -
B21	0.05 - 0.25 m	Dark grey (10YR4/1-Moist); ; Medium clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.15); Gradual change to -
B22	0.25 - 1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Weak grade of structure; Smooth-ped fabric; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.5); Gradual change to -
B23	1 - 1.4 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR41, 10-20% , Faint; Mottles, 10-20% ; Medium heavy clay; Weak grade of structure; Smooth-ped fabric; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 4.5 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC dS/m	Cations Ca Mg K Na	Anions Cl SO₄ CO₃ HCO₃	Sulfate (-)/kg	CEC	ECEC	ESP
m								%
0 - 0.05	6.4A		3B	3.7	0.19	0.23		
0.05 - 0.25	6.1A							
0.25 - 1	4.9A		5.4B	7.2	0.06	8		
1 - 1.4	4.6A							

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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