

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1325 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Rogers, Gary	Locality:
Date Desc.: 05/08/92	Elevation: No Data
Map Ref.: Sheet No. : 8059 GPS	Rainfall: No Data
Northing/Long.: 7889067 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 363583 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 rises 9-30m 1-3%	Pattern Type: Rises
Morph. Type: Simple-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Very gently sloped
Slope: 3 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Eutrophic Red Kandosol Thin Gravelly Clay-loamy Clayey Shallow	Principal Profile Form: Gn3.11
ASC Confidence:	Great Soil Group: Lithosol

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Dichanthium species, Heteropogon contortus,
 Petalostigma pubescens Bothriochloa decipiens Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus shirleyi,
 Eucalyptus Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus shirleyi, Petalostigma pubescens,
 erythrophloia

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

Profile Morphology

A11	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Abrupt change to -
A3	0.06 - 0.12 m	Dark brown (10YR3/3-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, subangular, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.1); Clear change to -
B21	0.12 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, 10-20%, fine gravelly, 2-6mm, subangular, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.2); Clear change to -
C	0.25 - 0.5 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR56, 0-2% , Prominent; Mottles, 0-2% ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; 90-100%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.4);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.06	6.4A		5.1B	2.2	0.65	0.04				
0.12 - 0.25	6.3A									
0.25 - 0.5	7A		13B	6.6	0.17	0.11				

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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