

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 851 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|------------|
| Desc. By: | M.G. Cannon | Locality: | |
| Date Desc.: | 24/10/91 | Elevation: | 230 metres |
| Map Ref.: | Sheet No. : 8156 GPS | Rainfall: | No Data |
| Northing/Long.: | 7687480 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 417700 Datum: AGD66 | Drainage: | No Data |

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: | 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 |
| Eutrophic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Clay-loamy Clayey Moderately deep | Principal Profile Form: | Dy3.13 |

| | | |
|--|--------------------------|-----|
| ASC Confidence: | Great Soil Group: | N/A |
| No analytical data are available but confidence is fair. | | |

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Very sparse. *Species includes - Aristida species
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus melanophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A11 | 0 - 0.05 m | Dark brown (10YR3/3-Moist); ; Clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); |
| A | 0.05 - 0.22 m | Dark greyish brown (10YR4/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; |
| B1 | 0.22 - 0.3 m | Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR46, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.3); |
| B2 | 0.3 - 0.7 m | Brown (10YR5/3-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-----------|----|--------|----|-----------------|-----------|-------------|----------------------|-----|------|-----|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0.3 - 0.7 | 8A | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt | Clay |
|-----------|-------|-----------|----------|---------|---------|---------|--------------|-------------|---------|-------------|------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0.3 - 0.7 | | | | | | | | | | | | |

| 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 | mm/h | mm/h |
| 0.3 - 0.7 | | | | | g/g - m3/m3 | | | | | |

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension