

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1617 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|--------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 02/11/93 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 7959 GPS | Rainfall: | No Data |
| Northing/Long.: | 7862011 AMG zone: 55 | Runoff: | Rapid |
| Easting/Lat.: | 324214 Datum: AGD66 | Drainage: | Well 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: | Undulating rises 9-30m 3-10% | Pattern Type: | Rises |
| Morph. Type: | Mid-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Gently inclined |
| Slope: | 6 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | |
|---|--------------------------------|-------------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Bleached-Mottled Eutrophic Red Chromosol Thick Moderately gravelly Sandy Clayey Moderately deep | Principal Profile Form: | Dr3.62 |
| ASC Confidence: | Great Soil Group: | No suitable group |

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, 0.26-0.5m, Sparse. *Species includes - Cymbopogon bombycinus, Triodia mitchellii, Themeda triandra
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species, Eucalyptus melanophloia, Petalostigma

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

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, subrounded, Quartz

Profile Morphology

| | | |
|-----|---------------|---|
| A11 | 0 - 0.1 m | Dark brown (10YR3/3-Moist); ; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear change to - |
| A12 | 0.1 - 0.23 m | Brown (10YR4/3-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2); Clear change to - |
| A2e | 0.23 - 0.52 m | Brownish yellow (10YR6/6-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.4); Abrupt change to - |
| B2 | 0.52 - 0.6 m | Red (10R5/8-Moist); Mottles, 7.5YR78, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Coarse sandy light medium clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.6); |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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

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

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|-------------|-------|-------|--------|-----------|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | |
| m | | | | | g/g - m3/m3 | | | | mm/h mm/h |

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Laboratory Analyses Completed for this profile