

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2261 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 24/08/93 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 7859 GPS | Rainfall: | No Data |
| Northing/Long.: | 7884694 AMG zone: 55 | Runoff: | Rapid |
| Easting/Lat.: | 272715 Datum: AGD66 | Drainage: | Moderately well 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: | Rolling rises 9-30m 10-32% | Pattern Type: | Rises |
| Morph. Type: | Crest | Relief: | No Data |
| Elem. Type: | Hillcrest | Slope Category: | Gently inclined |
| Slope: | 5 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | |
|--|--------------------------------|-------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Haplic Eutrophic Red Dermosol Thin Moderately gravelly Clay-loamy Clayey Shallow | Principal Profile Form: | Gn3.13 |
| ASC Confidence: | Great Soil Group: | No suitable |

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, Very sparse. *Species includes - Bothriochloa decipiens
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eremophila mitchellii, Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 20-50%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

| | | |
|-----|---------------|---|
| A11 | 0 - 0.03 m | Dark brown (10YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular tabular, Schist, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.02); Abrupt change to - |
| B1 | 0.03 - 0.14 m | Strong brown (7.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular tabular, Schist, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.1); Clear change to - |
| B2 | 0.14 - 0.44 m | Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular tabular, Schist, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Clear change to |
| C1 | 0.44 - 0.8 m | Red (2.5YR4/6-Moist); ; Clay loam; Strong grade of structure; Dry; Very firm consistence; 50-90%, medium gravelly, 6-20mm, angular tabular, Schist, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.6); Gradual change to - |
| C2 | 0.8 - 1.4 m | Light red (2.5YR6/6-Moist); ; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 9 (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 | Acidity | | | | | % |
| | | | | | | 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 | |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| | | | | | g/g - | m3/m3 | | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile