

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1367 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|---------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 19/08/92 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 7957 GPS | Rainfall: | No Data |
| Northing/Long.: | 7760514 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 331769 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 plains <9m 1-3% | Pattern Type: | Plain |
| Morph. Type: | Open depression (vale) | Relief: | No Data |
| Elem. Type: | Drainage depression | Slope Category: | Very gently sloped |
| Slope: | 1 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | |
|--|--------------------------------|--------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Mottled Eutrophic Brown Kandosol Thin Non-gravelly Clay-loamy Clay-loamy Moderately deep | Principal Profile Form: | Gn3.94 |
| ASC Confidence: | Great Soil Group: | Yellow earth |

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 - Eragrostis species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Melaleuca nervosa
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus terminalis, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A11 | 0 - 0.06 m | Very dark grey (10YR3/1-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Abrupt change to - |
| A2 | 0.06 - 0.13 m | Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.1); Clear change to - |
| A3 | 0.13 - 0.25 m | Greyish brown (10YR5/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2); Clear change to - |
| B21 | 0.25 - 0.5 m | Brown (10YR5/3-Moist); Biological mixing, 10YR58, 10-20% , 0-5mm, Distinct; Biological mixing, 10-20% ; Clay loam, sandy (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 10-20%, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 5.8 (Raupach, 0.45); Gradual change to - |
| B22 | 0.5 - 0.7 m | Yellowish brown (10YR5/8-Moist); Mottles, 2.5Y62, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Clay loam, sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 5.8 (Raupach, 0.65); Clear change to - |
| B23 | 0.7 - 0.85 m | Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR58, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Clay loam, sandy; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.8); |

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 Cmol (+)/kg | Acidity | | | % |
| | | | | | | | | | | |

| 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 | | | % | | |
| | | | | | | | | | | | | |

| 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