

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 700 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|---------------------|
| Desc. By: | M.G. Cannon | Locality: | |
| Date Desc.: | 01/08/91 | Elevation: | 320 metres |
| Map Ref.: | Sheet No. : 8158 GPS | Rainfall: | No Data |
| Northing/Long.: | 7822793 AMG zone: 55 | Runoff: | Moderately rapid |
| Easting/Lat.: | 443811 Datum: AGD66 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|---------|------------------------------------|---------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | 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: | 0 degrees |

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Endocalcareous Crusty Black Vertosol Gravelly Medium fine Very fine Moderately deep | | Principal Profile Form: | Ug3.1 |
| ASC Confidence: | | Great Soil Group: | Black earth |

No analytical data are available but confidence is fair.

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

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus
Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Eremophila mitchellii, Eucalyptus brownii
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus brownii

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

Profile Morphology

| | | |
|-----|---------------|---|
| A1 | 0 - 0.05 m | Greyish brown (10YR5/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to - |
| B21 | 0.05 - 0.18 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Gradual change to - |
| B22 | 0.18 - 0.6 m | Dark grey (10YR4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8 (Raupach, 0.6); Gradual change to - |
| B23 | 0.6 - 0.9 m | Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.9); |

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