

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 182 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|--------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 10/10/90 | Elevation: | 480 metres |
| Map Ref.: | Sheet No. : 7860 GPS | Rainfall: | No Data |
| Northing/Long.: | 7909622 AMG zone: 55 | Runoff: | Very slow |
| Easting/Lat.: | 278500 Datum: AGD66 | Drainage: | Well 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: | Undulating low hills 30-90m 3-10% | Pattern Type: | Low hills |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | 180 degrees |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Basic Regolithic Bleached-Leptic Tenosol Thin Non-gravelly | | Principal Profile Form: | Uc2.21 |
| Loamy Clay-loamy Moderately deep | | | |
| ASC Confidence: | | Great Soil Group: | No suitable group |
| All necessary analytical data are available. | | | |

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Themeda triandra, Heteropogon contortus, Bothriochloa decipiens Mid Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus brownii

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|------|--------------|---|
| A1 | 0 - 0.05 m | Dark brown (10YR3/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| A21j | 0.05 - 0.2 m | Brown (10YR4/3-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| A22e | 0.2 - 0.28 m | Yellowish brown (10YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Medium (2-5mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| D1 | 0.28 - 0.5 m | Brownish yellow (10YR6/6-Moist); ; Clayey coarse sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Loose consistence; 90-100%, medium gravelly, 6-20mm, angular tabular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Abrupt, Smooth change to - |
| D2 | 0.5 - 0.7 m | Strong brown (7.5YR5/6-Moist); ; Coarse sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Loose consistence; 90-100%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Exchangeable Na | CEC | ECEC | ESP |
|------------|------|--------|-------|-----------------|-----------|-----------------|---------|------|------|
| m | | dS/m | | | | Cmol (+)/kg | Acidity | | % |
| 0 - 0.05 | 6.5A | | 6.1B | 2.7 | 0.76 | 0.04 | | | |
| 0.28 - 0.5 | 6.4A | | 2.3J | 1.8 | 0.4 | 0.1 | 4.2I | | 2.38 |
| 0.5 - 0.7 | 6.7A | | 0.71B | 0.87 | 0.12 | 0.07 | | | |

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Laboratory Analyses Completed for this profile

| | |
|---------|--|
| 10B | Extractable sulfur(mg/kg) - Phosphate extractable sulfur |
| 15A2_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15F1_CA | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_MG | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_NA | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F3 | CEC by 0.01M silver-thiourea (AgTU)+ |
| 15N1 | Exchangeable sodium percentage (ESP) |
| 4A1 | pH of 1:5 soil/water suspension |