

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 349 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|------------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 01/08/91 | Elevation: | 370 metres |
| Map Ref.: | Sheet No. : 8157 GPS | Rainfall: | No Data |
| Northing/Long.: | 7755710 AMG zone: 55 | Runoff: | Moderately rapid |
| Easting/Lat.: | 412408 Datum: AGD66 | Drainage: | Well drained |

Geology

| | | | |
|-----------------------|---------|------------------------------------|-------------------------------|
| Exposure Type: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Undisturbed soil core, Arkose |

Land Form

| | | | |
|-------------------------|------------------------------|------------------------|--------------------|
| Rel/Slope Class: | Undulating rises 9-30m 3-10% | Pattern Type: | Rises |
| Morph. Type: | Crest | Relief: | No Data |
| Elem. Type: | Hillcrest | Slope Category: | Very gently sloped |
| Slope: | 2 % | Aspect: | 140 degrees |

Surface Soil Condition (dry): Surface flake

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|-----------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Eutrophic Red Chromosol Thin Gravelly Sandy Clayey Shallow | | Principal Profile Form: | Dr2.12 |
| ASC Confidence: | No analytical data are available but confidence is fair. | Great Soil Group: | Non-calcic brown soil |

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Heteropogon contortus, Bothriochloa ewartiana, Bothriochloa pertusa Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus crebra, Acacia bidwillii

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, angular, Arkose

Profile Morphology

| | | |
|-----|--------------|---|
| A1 | 0 - 0.08 m | Dark brown (7.5YR3/2-Moist); ; Loamy sand (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Arkose, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear, Smooth change to - |
| B21 | 0.08 - 0.4 m | Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Arkose, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Clear, Smooth change to - |
| C | 0.4 - 0.6 m | ; , Calcareous, , ; , Gypseous, , ; |

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