

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 955 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|------------------|
| Desc. By: | Barry, Earl | Locality: | |
| Date Desc.: | 02/08/92 | Elevation: | 360 metres |
| Map Ref.: | Sheet No. : 8057 GPS | Rainfall: | No Data |
| Northing/Long.: | 7752468 AMG zone: 55 | Runoff: | Moderately rapid |
| Easting/Lat.: | 360596 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, 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: | 2 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|--------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Eutrophic Red Kandosol Thin Non-gravelly Clay-loamy Clayey Moderately deep | | Principal Profile Form: | Gn2.12 |

| | | | |
|--------------------------------|--|--------------------------|-----------|
| ASC Confidence: | | Great Soil Group: | Red earth |
| Confidence level not specified | | | |

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

Vegetation: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - Heteropogon contortus, Aristida species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia species, Eremophila mitchellii, Eucalyptus

species

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus peltata, Eucalyptus crebra, Eucalyptus

papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|--------------|---|
| A1 | 0 - 0.08 m | Dark brown (7.5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Platy; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to - |
| B1 | 0.08 - 0.2 m | Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Clear change to - |
| B21 | 0.2 - 0.45 m | Dark red (2.5YR3/6-Moist); ; Fine sandy light clay; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.45); Gradual change to - |
| B22 | 0.45 - 0.9 m | Red (2.5YR4/6-Moist); ; Fine sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.9); Clear change to - |

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 | | | |

| | |
|------------|------|
| 0 - 0.08 | 6.3A |
| 0.45 - 0.9 | 6.1A |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------|-------|---------|--------|-------|-------|-------|---------|----------|----|------|----------|------|
| | | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |

0 - 0.08
0.45 - 0.9

| 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 |

0 - 0.08
0.45 - 0.9

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension