

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 460 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|------------|
| Desc. By: | Barry, Earl | Locality: | |
| Date Desc.: | 17/10/91 | Elevation: | 260 metres |
| Map Ref.: | Sheet No. : 8156 GPS | Rainfall: | No Data |
| Northing/Long.: | 7684856 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 429556 Datum: AGD66 | Drainage: | No Data |

Geology

| | | | |
|-----------------------|---------|------------------------------------|---------|
| Exposure Type: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|--------------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Alluvial plain |
| Morph. Type: | Lower-slope | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Very gently sloped |
| Slope: | 3 % | Aspect: | 120 degrees |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | |
|--|--------------------------------|--------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Eutrophic Subnatric Red Sodosol Medium Non-gravelly Sandy Clay-loamy Moderately deep | Principal Profile Form: | Db2.33 |
| ASC Confidence: | Great Soil Group: | Solodic soil |
| 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, <0.25m, Sparse. *Species includes - Eragrostis species
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia argyrodendron

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A12 | 0 - 0.03 m | Dark reddish brown (5YR3/3-Moist); ; Loamy fine sand; Massive grade of structure; Smooth-ped fabric; Dry; Loose consistence; , Calcareous, , , , Gypseous, , , ; Clear change to - |
| A2j | 0.03 - 0.15 m | ; Loamy fine sand; Massive grade of structure; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0.05); Abrupt change to - |
| B21 | 0.15 - 0.35 m | Dark reddish brown (5YR3/4-Moist); Mottles, 5YR46, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Gradual change to - |
| B22 | 0.35 - 0.6 m | Dark yellowish brown (10YR4/4-Moist); ; Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.6); Abrupt change to - |
| C | 0.6 - 0.9 m | ; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.9); |

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 | | | | | | |

| 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 | |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| 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