

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2083 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Bright, J (Mitch)
Date Desc.: 23/06/93
Map Ref.: Sheet No. : 8154 GPS
Northing/Long.: 7603656 AMG zone: 55
Easting/Lat.: 442901 Datum: AGD66

Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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|----------------------|---------|
| ExposureType: | No Data |
| Geol. Ref.: | No Data |

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m
1-3%

Pattern Type: Plain

Morph. Type: No Data
Elem. Type: Plain
Slope: 2 %

Relief: No Data
Slope Category: Very gently sloped
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Eutrophic Yellow Kandosol Thin Slightly gravelly Clay-loamy Clayey Deep

Mapping Unit: N/A
Principal Profile Form: Gn4.82

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: Yellow earth

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

Vegetation:

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Themeda triandra, Bothriochloa

decipiens Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Hakea species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - *Eucalyptus melanophloia*, *Eucalyptus papuana*

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Ironstone

Profile Morphology

| | | |
|----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1 | 0 - 0.04 m | Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; Gypseous, , ; Field pH 6 (Raupach, 0.03); Clear change to - |
|----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | |
|----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3 | 0.04 - 0.22 m | Dark brown (10YR3/3-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 5.5 (Raupach, 0.15); Gradual change to - |
|----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | |
|----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B1 | 0.22 - 0.55 m | Brownish yellow (10YR6/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, dispersed, Ironstone, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 5.5 (Raupach, 0.4); Diffuse change to - |
|----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | |
|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B21 | 0.55 - 1.1 m | Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, dispersed, Ironstone, coarse fragments; , Calcareous. , , Gypseous. , ; Field pH 5 (Raupach, 0.8); Diffuse change to - |
|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | | |
|-----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B22 | 1.1 - 1.3 m | Yellowish red (5YR4/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, dispersed, Ironstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 1.2); |
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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 Cmol (+)/kg | Acidity | | | | % | |
| | | | | | | | | | | | | |
| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | CS | Size FS | Analysis Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| | | | | | | | | | | | | |
| 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