

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 716 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|------------|
| Desc. By: | M.G. Cannon | Locality: | |
| Date Desc.: | 13/08/91 | Elevation: | 350 metres |
| Map Ref.: | Sheet No. : 8158 GPS | Rainfall: | No Data |
| Northing/Long.: | 7802835 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 432766 Datum: AGD66 | Drainage: | No Data |

Geology

| | | | |
|----------------------|---------|------------------------------------|--------------------------------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Undisturbed soil core, Granite |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|--------------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Rises |
| Morph. Type: | Upper-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Very gently sloped |
| Slope: | 2.5 % | Aspect: | 195 degrees |

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----------------|
| Australian Soil Classification: | Haplic Calcic Red Dermosol Thin Non-gravelly Clay-loamy Clayey Moderately deep | Mapping Unit: | N/A |
| | | Principal Profile Form: | Dr2.13 |
| ASC Confidence: | No analytical data are available but confidence is fair. | Great Soil Group: | Red-brown earth |

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, Aristida species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, subrounded, Granite

Profile Morphology

| | | |
|------|---------------|---|
| A1 | 0 - 0.02 m | Dark brown (7.5YR3/2-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Abrupt change to - |
| B1 | 0.02 - 0.12 m | Dark reddish brown (5YR3/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Gradual change to - |
| B21 | 0.12 - 0.45 m | Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Abrupt change to - |
| B22k | 0.45 - 0.55 m | Dark reddish brown (2.5YR3/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; |
| BC | 0.55 - 0.75 m | ; Smooth-ped fabric; Moderately moist; Weak consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.6); Clear change to - |
| C | 0.75 - 1 m | ; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.9); |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension