

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1659 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

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|---|--|
| Desc. By: Barry, Earl | Locality: |
| Date Desc.: 29/04/93 | Elevation: No Data |
| Map Ref.: Sheet No. : 7958 GPS | Rainfall: No Data |
| Northing/Long.: 7835570 AMG zone: 55 | Runoff: Moderately rapid |
| Easting/Lat.: 318028 Datum: AGD66 | Drainage: Moderately well drained |

Geology

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|-------------------------------|---|
| Exposure Type: No Data | Conf. Sub. is Parent. Mat.: No Data |
| Geol. Ref.: No Data | Substrate Material: Existing vertical exposure, Basalt |

Land Form

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|--|--|
| Rel/Slope Class: Undulating rises 9-30m 3-10% | Pattern Type: Rises |
| Morph. Type: Upper-slope | Relief: No Data |
| Elem. Type: Hillcrest | Slope Category: Gently inclined |
| Slope: 7 % | Aspect: No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | |
|---|---------------------------------------|
| Australian Soil Classification: | Mapping Unit: N/A |
| Haplic Calcareous Red Ferrosol Medium Very gravelly Clay-loamy Clayey Moderately deep | Principal Profile Form: Dr4.13 |

| | |
|--------------------------------|------------------------------|
| ASC Confidence: | Great Soil Group: N/A |
| Confidence level not specified | |

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Heteropogon contortus, Themeda triandra, Bothriochloa decipiens Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus crebra

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

Surface Coarse Fragments: 50-90%, stony, 200-600mm, angular tabular, Basalt

Profile Morphology

| | | |
|-----|---------------|---|
| A11 | 0 - 0.18 m | Very dark grey (5YR3/1-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; 50-90%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 7 (Raupach, 0.1); Clear, Smooth change to - |
| B21 | 0.18 - 0.42 m | Dark reddish brown (2.5YR3/4-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; 20-50%, cobbly, 60-200mm, subrounded, dispersed, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 0.3); Gradual, Tongued change to - |
| BC | 0.42 - 0.7 m | Dark yellowish brown (10YR4/4-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 20-50%, stony, 200-600mm, subrounded, dispersed, Basalt, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 0.6); Gradual, Wavy change to - |
| C | 0.7 - 1.6 m | ; Dry; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 1); |

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