

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1471 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|----------------|
| Desc. By: | Barry, Earl | Locality: | |
| Date Desc.: | 13/10/92 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 8068 GPS | Rainfall: | No Data |
| Northing/Long.: | 7730180 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 353331 Datum: AGD66 | Drainage: | Poorly drained |

Geology

| | | | |
|----------------------|---------|------------------------------------|--------------------------------|
| ExposureType: | 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: | No Data | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | % | Aspect: | No Data |

Surface Soil Condition (dry): Cracking, Firm

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|-------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Mottled Crusty Black Vertosol Slightly gravelly Medium fine Very fine Deep | | Principal Profile Form: | Ug6 |
| ASC Confidence: | No analytical data are available but confidence is fair. | Great Soil Group: | No suitable group |

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Very sparse. *Species includes - Eulalia aurea, Bothriochloa species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, , ,

Profile Morphology

| | | |
|-----|---------------|---|
| A11 | 0 - 0.02 m | Very dark grey (10YR3/1-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0); Abrupt change to - |
| A12 | 0.02 - 0.28 m | Very dark grey (7.5YR3/0-Moist); ; Sandy light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Dry; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.2); Gradual change to - |
| B21 | 0.28 - 0.6 m | Very dark grey (7.5YR3/0-Moist); ; Sandy light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.5); Gradual change to - |
| B22 | 0.6 - 1.1 m | Dark grey (2.5Y4/0-Moist); ; Sandy light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.9); Gradual change to - |
| B23 | 1.1 - 1.25 m | Dark grey (2.5Y4/0-Moist); Mottles, 2.5Y64, 20-50% , 30-mm, Distinct; Mottles, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 1.2); |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Exchangeable Na | CEC | ECEC | ESP |
|------------|------|--------|----|-----------------|-----------|-----------------|---------|------|-----|
| m | | dS/m | | | | Cmol (+)/kg | Acidity | | % |
| 0 - 0.02 | 6.7A | | | | | | | | |
| 0.28 - 0.6 | 7.6A | | | | | | | | |
| 1.1 - 1.25 | 6.9A | | | | | | | | |

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension