

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2247 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|---------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 22/10/93 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 7957 GPS | Rainfall: | No Data |
| Northing/Long.: | 7874596 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 334692 Datum: AGD66 | Drainage: | Imperfectly drained |

Geology

| | | | |
|-----------------------|---------|------------------------------------|--------------------------------|
| Exposure Type: | 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: | Alluvial plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | No Data |

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

| | | |
|---|--------------------------------|-------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Mottled Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep | Principal Profile Form: | Ug5.1 |
| ASC Confidence: | Great Soil Group: | Black earth |

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, Very sparse. *Species includes - Unknown species, Unknown species, Unknown species
Mid Strata - , , . *Species includes - None recorded

Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A1 | 0 - 0.07 m | Dark grey (10YR4/1-Moist); Biological mixing, 7.5YR43, 0-2% , 0-5mm, Distinct; Biological mixing, 0-2% ; Medium clay (Light); Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.03); Abrupt change to - |
| B21 | 0.07 - 0.45 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Gradual change to - |
| B22 | 0.45 - 1.2 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 5-10 mm, Subangular blocky; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.7); Clear change to - |
| B23 | 1.2 - 1.6 m | Very dark greyish brown (2.5Y3/2-Moist); Mottles, 10YR44, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.5); |

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