

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1417 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|-------------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 17/09/92 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 8057 GPS | Rainfall: | No Data |
| Northing/Long.: | 7749899 AMG zone: 55 | Runoff: | Moderately rapid |
| Easting/Lat.: | 353777 Datum: AGD66 | Drainage: | Moderately well 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: | Undulating rises 9-30m 3-10% | Pattern Type: | Rises |
| Morph. Type: | Mid-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Gently inclined |
| Slope: | 4 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|--------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Eutrophic Class Undetermined Brown Sodosol Medium Non-gravelly Clay-loamy Clayey Deep | | Principal Profile Form: | Dg1.43 |
| ASC Confidence: | | Great Soil Group: | Solodic soil |

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|--------------|--|
| A1 | 0 - 0.08 m | Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; Dry; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.04); Abrupt change to - |
| A2e | 0.08 - 0.2 m | Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; 20-50%, fine gravelly, 2-6mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.15); Abrupt change to - |
| B21 | 0.2 - 0.4 m | Strong brown (7.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.3); Clear change to - |
| B22 | 0.4 - 0.8 m | Yellowish brown (10YR5/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.6); Gradual change to - |
| B23 | 0.8 - 1.1 m | Yellowish brown (10YR5/6-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, angular, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , ; Field pH 9.5 (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 | | | % |
| 0 - 0.08 | 8.1A | | 2.9B | 1.2 | 0.44 | 0.27 | | | |
| 0.08 - 0.2 | 8.3A | | | | | | | | |
| 0.2 - 0.4 | 8.9A | | | | | | | | |
| 0.4 - 0.8 | 9.1A | | | | | | | | |

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Laboratory Analyses Completed for this profile

| | |
|---------|--|
| 10B | Extractable sulfur(mg/kg) - Phosphate extractable sulfur |
| 15A2_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15N1 | Exchangeable sodium percentage (ESP) |
| 4A1 | pH of 1:5 soil/water suspension |