

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 132 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|--------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 04/09/90 | Elevation: | 635 metres |
| Map Ref.: | Sheet No. : 7957 GPS | Rainfall: | No Data |
| Northing/Long.: | 7767765 AMG zone: 55 | Runoff: | No runoff |
| Easting/Lat.: | 293750 Datum: AGD66 | Drainage: | Well drained |

Geology

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

Land Form

| | | | |
|-------------------------|---------------------|------------------------|------------|
| Rel/Slope Class: | Level plain <9m <1% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | 90 degrees |

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

| | | |
|--|--------------------------------|-------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Endocalcareous Epipedal Black Vertosol Slightly gravelly | Principal Profile Form: | Ug5.14 |
| Medium fine Very fine Deep | Great Soil Group: | Black earth |

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Heteropogon contortus, Bothriochloa ewartiana,

Eulalia aurea Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus orgadophylla, Eucalyptus brownii, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, stony, 200-600mm, rounded, Basalt

Profile Morphology

| | | |
|------|---------------|--|
| A11 | 0 - 0.01 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Many, fine (1-2mm) roots; Abrupt, Smooth change to - |
| A12 | 0.01 - 0.28 m | Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Abrupt, Smooth change to - |
| B21 | 0.28 - 0.5 m | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.3); Many, fine (1-2mm) roots; Clear, Smooth change to - |
| B22k | 0.5 - 0.75 m | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Laminae; , Gypseous, , , Field pH 8.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| B3 | 0.75 - 1.05 m | Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 1.05); Abrupt, Smooth change to - |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|-------|-----------------|-----------|------|----------------------|-------|------|------|
| m | | dS/m | | | | + | cmol (+)/kg | | | % |
| 0.01 - 0.28 | 7.3A | | 17E | 14 | 0.95 | 0.32 | | 45B | | 0.71 |
| 0.28 - 0.5 | 8A | | 18.2J | 17.6 | 0.2 | 0.5 | | 39.3I | | 1.27 |
| 0.5 - 0.75 | 8.3A | | | | | | | | | |
| 0.75 - 1.05 | 8.3A | | 19B | 25 | 0.27 | 2.8 | | 43B | | 6.51 |
| | | | 16E | 24 | 0.19 | 2.2 | | | | 5.12 |

[illegible][illegible]

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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 |
| 15C1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_CEC | CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_K | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_MG | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_NA | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15F1_CA | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_MG | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F1_NA | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts |
| 15F3 | CEC by 0.01M silver-thiourea (AgTU)+ |
| 15N1 | Exchangeable sodium percentage (ESP) |
| 4A1 | pH of 1:5 soil/water suspension |