

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 504 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|   |                                 |
|---|---------------------------------|
| <b>Desc. By:</b> M.G. Cannon                | <b>Locality:</b>                |
| <b>Date Desc.:</b> 09/04/91                 | <b>Elevation:</b> 280 metres    |
| <b>Map Ref.:</b> Sheet No. : 8258 GPS       | <b>Rainfall:</b> No Data        |
| <b>Northing/Long.:</b> 7807850 AMG zone: 55 | <b>Runoff:</b> Slow             |
| <b>Easting/Lat.:</b> 454216 Datum: AGD66    | <b>Drainage:</b> Poorly drained |

#### Geology

|                              |  |
|------------------------------|--|
| <b>ExposureType:</b> No Data | <b>Conf. Sub. is Parent. Mat.:</b> No Data                     |
| <b>Geol. Ref.:</b> No Data   | <b>Substrate Material:</b> Undisturbed soil core, Granodiorite |

#### Land Form

|   |  |
|---|--|
| <b>Rel/Slope Class:</b> Gently undulating rises 9-30m<br>1-3% | <b>Pattern Type:</b> Rises             |
| <b>Morph. Type:</b> Upper-slope                               | <b>Relief:</b> No Data                 |
| <b>Elem. Type:</b> Hillslope                                  | <b>Slope Category:</b> Gently inclined |
| <b>Slope:</b> 5 %   | <b>Aspect:</b> 250 degrees             |

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

|  |   |
|--|---|
| <b>Australian Soil Classification:</b>               | <b>Mapping Unit:</b> N/A                    |
| Eutrophic Subnatic Brown Sodosol Medium Sandy Clayey | <b>Principal Profile Form:</b> Db1.23       |
| Moderately deep Moderately deep                      |   |
| <b>ASC Confidence:</b>                               | <b>Great Soil Group:</b> Solodized solonetz |
| All necessary analytical data are available.         |   |

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

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

Mid Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus erythrophloia

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana

**Surface Coarse Fragments:** 0-2%, coarse gravelly, 20-60mm, subangular, Granite

#### Profile Morphology

|     |               |   |
|-----|---------------|---|
| A11 | 0 - 0.05 m    | Dark brown (10YR3/3-Moist); ; Sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -   |
| A12 | 0.05 - 0.15 m | Dark yellowish brown (10YR3/4-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very weak consistence; ; Calcareous, ; ; Gypseous, ; ; Common, very fine (0-1mm) roots; Clear, Smooth change to -   |
| A13 | 0.15 - 0.23 m | Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Moderately moist; Very weak consistence; ; Calcareous, ; ; Gypseous, ; ; Common, very fine (0-1mm) roots; Clear, Smooth change to -   |
| A21 | 0.23 - 0.26 m | Yellowish brown (10YR5/6-Moist); ; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Moderately moist; Loose consistence; ; Calcareous, ; ; Gypseous, ; ; Few, very fine (0-1mm) roots; Clear, Smooth change to -   |
| A22 | 0.26 - 0.28 m | Brownish yellow (10YR6/6-Moist); ; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Moderately moist; Loose consistence; ; Calcareous, ; ; Gypseous, ; ; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -  |
| B2  | 0.28 - 0.7 m  | Dark yellowish brown (10YR4/6-Moist); Mottles, 10YR4.3, 2-10% , 5-15mm, Faint; Mottles, 2-10% ; Medium clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; ; Calcareous, ; ; Gypseous, ; ; Field pH 7.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Diffuse, Tongued change to - |
| BC  | 0.7 - 0.85 m  | ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; ; Calcareous, ; ; Gypseous, ; ; Field pH 9.5 (Raupach, 0.85); Gradual, Irregular change to -  |
| C   | 0.85 - 0.9 m  | ; Moderately moist; ; Calcareous, ; ; Gypseous, ; ;   |

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**Observation Notes**

**Site Notes**

**Morphological 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     |       |      | %    |
| 0 - 0.05   | 6A   |        |      |                 |           |                 |       |      |      |
| 0.28 - 0.7 | 7.6A |        | 7.2J | 4.7             | 0.1       | 1.2             | 12.5I |      | 9.60 |
| 0.7 - 0.85 | 8.2A |        |      |                 |           |                 |       |      |      |

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**Laboratory Analyses Completed for this profile**

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