

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 512                      **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>     | 10/04/91                | <b>Elevation:</b> | 260 metres      |
| <b>Map Ref.:</b>       | Sheet No. : 8158    GPS | <b>Rainfall:</b>  | No Data         |
| <b>Northing/Long.:</b> | 7788936 AMG zone: 55    | <b>Runoff:</b>    | Slow            |
| <b>Easting/Lat.:</b>   | 442140    Datum: AGD66  | <b>Drainage:</b>  | Rapidly drained |

**Geology**

|                       |         |                                    |                                |
|-----------------------|---------|------------------------------------|--------------------------------|
| <b>Exposure Type:</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, Granite |

**Land Form**

|                         |                              |                        |                 |
|-------------------------|------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Undulating rises 9-30m 3-10% | <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>           | 7 %                          | <b>Aspect:</b>         | 110 degrees     |

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

**Erosion:**

**Soil Classification**

|  |  |                                |        |
|--|--|--------------------------------|--------|
| <b>Australian Soil Classification:</b>                             |  | <b>Mapping Unit:</b>           | N/A    |
| Palic Paralitric Leptic Tenosol Non-gravelly Sandy Moderately deep |  | <b>Principal Profile Form:</b> | Uc1.22 |

|   |  |                          |          |
|---|--|--------------------------|----------|
| <b>ASC Confidence:</b>                                    |  | <b>Great Soil Group:</b> | Lithosol |
| Analytical data are incomplete but reasonable confidence. |  |                          |          |

**Site Disturbance:**    Extensive clearing, for example poisoning, ringbarking

**Vegetation:**    Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Phynchelytrum repens, Bothriochloa pertusa,  
Heteropogon contortus    Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus erythrophloia  
Tall Strata - Tree, 12.01-20m, Very sparse. \*Species includes - Pleiogynium timorense, Eucalyptus erythrophloia,  
Eucalyptus papuana

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

**Profile Morphology**

|    |               |  |
|----|---------------|--|
| A  | 0 - 0.03 m    | Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; , Calcareous, , , , Gypseous, , , ; Few, very fine (0-1mm) roots; Clear, Smooth change to -  |
| A3 | 0.03 - 0.15 m | Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| C  | 0.15 - 0.5 m  | Brownish yellow (10YR6/6-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 50-90%, fine gravelly, 2-6mm, subrounded, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.8 (Raupach, 0.45);  |

**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 |                      |      |      | %     |
| 0.03 - 0.15 | 7.1A |        | 3B   | 0.7             | 0.25      | 0.08        |                      |      |      |       |
| 0.15 - 0.5  | 5.5A |        | 2.4B | 0.78            | 0.19      | 0.04        |                      | 3.6I |      | 1.11  |
|             |      |        | 2.4J | 0.7             | 0.6       | 0.4         |                      |      |      | 11.11 |

[illegible][illegible]

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**Laboratory Analyses Completed for this profile**

|         |  |
|---------|--|
| 10B     | Extractable sulfur(mg/kg) - Phosphate extractable sulfur   |
| 15A2_CA | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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   |
| 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  |