

**Project Name:** Sandstone Yalgoo Paynes Find rangeland survey  
**Project Code:** SYP **Site ID:** I085 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Peter Hennig  
**Date Desc.:** 26/10/92  
**Map Ref.:**  
**Northing/Long.:** 6870675 AMG zone: 50  
**Easting/Lat.:** 567324 Datum: AGD84  
**Locality:**  
**Elevation:** No Data  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

#### Geology

**ExposureType:** Soil pit  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

#### Landform

**Rel/Slope Class:** No Data  
**Morph. Type:** No Data  
**Elem. Type:** No Data  
**Slope:** 1 %  
**Pattern Type:** No Data  
**Relief:** 17 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition

Cryptogam surface, Hardsetting

#### Erosion

#### Soil Classification

**Australian Soil Classification:**  
 Mesotrophic Subnatric Red Sodosol Thin Non-gravelly Sandy  
 Clayey Moderately deep  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dr2.12  
**ASC Confidence:**  
 Analytical data are incomplete but reasonable confidence.  
**Great Soil Group:** N/A

#### Site Disturbance

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

A 0 - 0.05 m Dark red (2.5YR3/6-Moist); ; Loamy sand; Earthy fabric; Weak consistence; 2-10%,  
 subangular, Quartz,  
 coarse fragments; Field pH 6 (pH meter);  
 B 0.05 - 0.15 m ; Light clay; Rough-ped fabric; Very firm consistence; 20-50%, Consolidated rock  
 (unidentified), coarse  
 fragments; Very few (0 - 2 %), , Medium (2 -6 mm), ; , Manganiferous, , Soft segregations;  
 Field pH 7  
 (pH meter);  
 C 0.15 - m ;

#### Morphological Notes

C Weathered granite

#### Observation Notes

#### Site Notes

Slope previously codes as 10.

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#### Laboratory Test Results:

| Depth       | pH   | 1:5 EC | Ca    | Exchangeable | Cations | Na          | Exchangeable | CEC | ECEC  | ESP   |
|-------------|------|--------|-------|--------------|---------|-------------|--------------|-----|-------|-------|
| m           |      | dS/m   |       | Mg           | K       | Cmol (+)/kg | Acidity      |     |       | %     |
| 0 - 0.01    | 6H   | 44B    | 0.87H | 0.71         | 0.28    | 0.28        | <0.02J       |     | 2.14D |       |
| 0.01 - 0.05 | 6.3H | 140B   | 0.47H | 2.36         | 0.27    | 0.78        | <0.02J       |     | 3.88D |       |
| 0.05 - 0.15 | 7.1H | 29B    | 1.34A | 4.08         | 0.58    | 0.74        |              | 7J  | 6.74D | 10.57 |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk    | Particle | Size | Analysis |
|-------|-------|---------|--------|-------|-------|-------|---------|----------|------|----------|
|       |       | C       | P      | P     | N     | K     | Density | GV       | CS   | FS       |
|       |       | Clay    |        |       |       |       |         |          |      | Silt     |

| m           | % | % | mg/kg | %    | %      | % | Mg/m3 | % |
|-------------|---|---|-------|------|--------|---|-------|---|
| 0 - 0.01    |   |   |       | 120B | 0.043E |   |       |   |
| 0.01 - 0.05 |   |   |       | 120B | 0.036E |   |       |   |
| 0.05 - 0.15 |   |   |       | 100B | 0.028E |   |       |   |

#### Laboratory Analyses Completed for this profile

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| 15_NR_CEC                | CEC - meq per 100g of soil - Not recorded                                                                    |
| 15_NR_CMV                | Exchangeable bases (Ca/Mg ratio) - Not recorded                                                              |
| 15A1_CA<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_K<br>for soluble    | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_MG<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_NA<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15E1_AL                  | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts                                  |
| 15E1_CA<br>salts         | Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts              |
| 15E1_K                   | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts                    |
| 15E1_MG                  | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts                    |
| 15E1_MN                  | Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts                          |
| 15E1_NA                  | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts                    |
| 15J_BASES                | Sum of Bases                                                                                                 |
| 15L1_a<br>Sum of Cations | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay |
| 15N1_a                   | Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC                              |
| 15N1_b                   | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations                   |
| 3_NR                     | Electrical conductivity or soluble salts - Not recorded                                                      |
| 4_NR                     | pH of soil - Not recorded                                                                                    |
| 7A1                      | Total nitrogen - semimicro Kjeldahl, steam distillation                                                      |
| 9A3                      | Total Phosphorus (ppm) - semimicro kjeldahl, automated colour                                                |