

**Project Name:** Sandstone Yalgoo Paynes Find rangeland survey  
**Project Code:** SYP **Site ID:** I043 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Peter Hennig  
**Date Desc.:** 16/09/92  
**Map Ref.:**  
**Northing/Long.:** 6802194 AMG zone: 50  
**Easting/Lat.:** 763524 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:** 1.2 %  
**Pattern Type:** No Data  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition

Cryptogam surface, Hardsetting

#### Erosion

#### Soil Classification

**Australian Soil Classification:**  
 Duric Red Sodosol Medium Non-gravelly Loamy Clayey Shallow  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dr1.16

#### ASC Confidence:

Analytical data are incomplete but reasonable confidence.

**Great Soil Group:** N/A

#### Site Disturbance

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

A 0 - 0.15 m Dark red (2.5YR3/6-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped  
 fabric; Firm consistence; Field pH 6.5 (pH meter); Sharp, Smooth change to -  
 B 0.15 - 0.3 m Dark red (2.5YR3/6-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped  
 fabric; Weak consistence; Field pH 8 (pH meter);  
 Dm 0.3 - m ; Red-brown hardpan;

#### Morphological Notes

#### Observation Notes

#### Site Notes

Slope previously codes as 12.

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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 - 0.05   | 7.2H | 3B     | 1.23A | 0.71            | 0.79      | 0.29        |                      | 4J  | 3.02D | 7.25  |
| 0.15 - 0.3 | 8.5H | 14B    | 2.46E | 2.1             | 0.17      | 2.87        |                      | 9J  | 7.6D  | 31.89 |

| Depth      | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis |
|------------|-------|----------------|----------|---------|---------|---------|--------------|------------------------|
| m          | %     | %              | mg/kg    | %       | %       | %       | Mg/m3        | GV CS FS Silt          |
| 0 - 0.05   |       |                |          | 150B    | 0.027E  |         |              |                        |
| 0.15 - 0.3 |       |                |          | 140B    | 0.034E  |         |              |                        |

### **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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment |
|                             | salts   |
| 15A1_K<br>for soluble       | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment |
|                             | salts   |
| 15A1_MG<br>for soluble      | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment |
|                             | salts   |
| 15A1_NA<br>for soluble      | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment |
|                             | salts   |
| 15C1_CA<br>pretreatment for | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5,       |
|                             | soluble salts   |
| 15C1_K<br>soluble salts     | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for   |
|                             |   |
| 15C1_MG<br>soluble salts    | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for   |
|                             |   |
| 15C1_NA<br>soluble salts    | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for   |
|                             |   |
| 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   |
| 4B_AL_NR                    | Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded  |
| 7A1                         | Total nitrogen - semimicro Kjeldahl, steam distillation   |
| 9A3                         | Total Phosphorus (ppm) - semimicro kjeldahl, automated colour   |