

Project Name: Sandstone Yalgoo Paynes Find rangeland survey
Project Code: SYP **Site ID:** I316 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Peter Hennig
Date Desc.: 22/05/93
Map Ref.:
Northing/Long.: 6865100 AMG zone: 50
Easting/Lat.: 638100 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: 0.5 %
Pattern Type: No Data
Relief: 20 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Surface crust

Erosion

Soil Classification

Australian Soil Classification: Sodic Eutrophic Red Dermosol Medium Gravelly Clayey Clayey Deep
Mapping Unit: N/A
Principal Profile Form: Uf6.31
ASC Confidence: Analytical data are incomplete but reasonable confidence.
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A11	0 - 0.01 m	Dark reddish brown (2.5YR3/3-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Very firm
		consistence; 10-20%, rounded, , coarse fragments; Field pH 6 (Raupach);
A12	0.01 - 0.12 m	Dark red (10R3/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped
		fabric; Weak consistence; 10-20%, rounded, , coarse fragments; Field pH 7 (Raupach);
B2	0.12 - 0.45 m	Dark red (10R3/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped
		fabric; Very weak consistence; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7
		(Raupach);
	0.45 - 0.9 m	Red (10R5/6-Moist); ; Light clay; Very many (50 - 100 %), Gypseous, Fine (0 - 2 mm), Soft segregations;
		Field pH 10 (Raupach);
	0.9 - 1 m	Red (2.5YR4/6-Moist); ; Light clay; Very many (50 - 100 %), Gypseous, Fine (0 - 2 mm), Soft
		segregations; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Slope previously codes as 5.

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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 - 0.01	7H	110B	1.1A	2.17	0.26	1.5	4J	5.03D	37.50
0.01 - 0.05	7.4H	190B	1.94A	5.02	0.29	4.59	9J	11.84D	51.00
0.45 - 0.5	7.6H	910B	8.59E	10.44	0.17	3.35	12J	22.55D	27.92

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0.01 - 0.01		0.08D		89B	0.011E			
0.01 - 0.05		0.11D		70B	0.011E			
0.45 - 0.5		0.16D		62B	0.014E			

Laboratory Analyses Completed for this profile

15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a 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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour