

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0831 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose	Locality:
Date Desc.: 05/08/94	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6723153 AMG zone: 50	Runoff: No Data
Easting/Lat.: 342658 Datum: AGD84	Drainage: Rapidly drained

Geology

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

Landform

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Low hills
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: No Data	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Basic Regolithic Yellow-Orthic Tenosol	Principal Profile Form: Uc4.21
ASC Confidence:	Great Soil Group: N/A

All necessary analytical data are available.

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.15 m	Dark brown (10YR3/3-Moist); ; Loamy sand; Sandy (grains prominent) fabric; Very weak consistence;
		Field pH 6.2 (pH meter); Clear change to -
A2	0.15 - 0.45 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very weak
		consistence; Field pH 5.9 (pH meter); Gradual change to -
B1	0.45 - 0.9 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very weak
		consistence; Field pH 6.3 (pH meter); Gradual change to -
B2	0.9 - 1.75 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very weak
		consistence; Field pH 6.4 (pH meter);
	1.75 - m	; Clayey sand;

Morphological Notes

Observation Notes

Site Notes

Roots penetrate to >1.5 m.

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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 - 0.15	4.6B 5.2H	6B	1.2H	0.16	0.05	0.03	0.03J		1.44D	
0.15 - 0.45	4.7B 5.5H	2B	0.54H	0.06	<0.02	<0.02	<0.02J		0.62D	
0.45 - 0.9	5.2B 6.1H	1B	0.51H	0.2	0.02	<0.02	<0.02J		0.74D	
1 - 1.5	4.5B 6H	1B	0.35H	0.2	0.03	<0.02	<0.02J		0.59D	

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 - 0.15		0.7D		37B	0.04E			94.5I 1.5
0.15 - 0.45		0.16D		21B	0.015E			93I 1.5
0.45 - 0.9		0.12D		15B	0.011E			88I 0.5
1 - 1.5		0.06D		14B	0.006E			87.5I 1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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
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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded