

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0694 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Cameron Weeks	Locality:	
Date Desc.:	23/02/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6695446 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	447455 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Hills

Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Petroferric Yellow-Orthic Tenosol		Principal Profile Form:	Uc5.22
ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.13 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Dry; Very weak consistence; Field pH 5.3 (pH meter); Abrupt, Smooth change to -
B11	0.13 - 0.33 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Dry; Weak consistence; Cultivation pan, Weakly cemented, Massive; Field pH 4.7 (pH meter); Clear change to -
B12	0.33 - 0.55 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Moderately moist; Very weak consistence; Field pH 6.1 (pH meter); Gradual change to -
B21	0.55 - 0.95 m	Brownish yellow (10YR6/8-Moist); Substrate influence, 10YR74, 10-20% , 15-30mm, Faint; Sandy loam; Very weak consistence; 0-2%, Ironstone, coarse fragments; Field pH 6.1 (pH meter); Clear change to -
B22	0.95 - 1.35 m	Brownish yellow (10YR6/8-Moist); Substrate influence, 10YR74, 2-10% , 5-15mm, Faint; Sandy loam; Moist; Very weak consistence; 2-10%, Ironstone, coarse fragments; Abrupt change to -
	1.35 - m	;

Morphological Notes

B22 Medium - coarse sand.
Ferruginous gravels. Loose and cemented.

Observation Notes

Site Notes

Upslope indurated layer is closer to the surface - 400cm. Still with compacted and cemented layer. Roots penetrating to 100cm.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.13	5B 5.6H	120B	1.2H	0.84	0.16	0.44	0.08J	2.64D	
0.13 - 0.33	4.3B 4.6H	39B	0.52H	0.54	0.09	0.19	0.13J	1.34D	
0.33 - 0.55	5B 5.2H	55B	0.54H	0.97	0.07	0.27	<0.02J	1.85D	
0.55 - 0.95	5.5B 5.6H	60B	0.39H	1.25	0.06	0.35	<0.02J	2.05D	
0.95 - 1.35	5.5B 5.7H	61B	0.16H	1.56	0.07	0.33	<0.02J	2.12D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.13		0.78D		88B	0.054E			85.5I 4
10.5								
0.13 - 0.33		0.19D		28B	0.023E			81I 3.5
15.5								
0.33 - 0.55		0.14D		26B	0.017E			79I 5
16								
0.55 - 0.95		0.1D		27B	0.015E			76.5I 5
18.5								
0.95 - 1.35		0.06D		25B	0.011E			75.5I 6.5
18								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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