

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0325 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Christopher Grose	<b>Locality:</b>	
<b>Date Desc.:</b>	09/08/93	<b>Elevation:</b>	330 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6735844 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	452919 Datum: AGD84	<b>Drainage:</b>	Rapidly drained

**Geology**

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

**Landform**

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

<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Loose

**Erosion**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic Fluvisol Orthic Tenosol		<b>Principal Profile Form:</b>	Uc5.22
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance** Cultivation. Rainfed

**Vegetation**

**Surface Coarse Fragments**

**Profile Morphology**

Ap	0 - 0.1 m	Dark yellowish brown (10YR4/5-Moist); ; Loamy sand; Weak consistence; Field pH 6 (pH meter);
B21	0.1 - 0.9 m	Strong brown (7.5YR5/8-Moist); ; Clayey sand; Weak consistence; Field pH 4.7 (pH meter);
B22	0.9 - 1.3 m	Yellowish red (5YR5/8-Moist); ; Clayey sand; Weak consistence; Field pH 4.5 (pH meter);
	1.3 - m	; Clayey sand;

**Morphological Notes**

**Observation Notes**

**Site Notes**

Deep good yellow sand. Acidic fluvisol orthic tenosol. Occasional fine roots to 40 cm and very fine roots to 100 cm. Remnants of original veg roots.

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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 - 0.1	3.9B 4.5H	4B	0.31H	0.1	0.08	<0.02	0.56J		0.5D	
0.3 - 0.4	3.8B 4.2H	4B	0.12H	0.06	0.02	<0.02	0.85J		0.21D	
0.75 - 0.85	3.9B 4.2H	4B	0.06H	0.04	0.02	<0.02	0.87J		0.13D	
1 - 1.1	3.8B 4.1H	4B	0.09H	0.04	0.02	<0.02	0.8J		0.16D	

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 - 0.1 10.3		0.51D		89B	0.028E			1
0.3 - 0.4 13.4		0.17D		30B	0.014E			1.6
0.75 - 0.85 14.5		0.11D		25B	0.01E			1.7
1 - 1.1 15.8		0.07D		26B	0.009E			1.2

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMJR	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
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)