

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0003 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Christopher Grose	<b>Locality:</b>	
<b>Date Desc.:</b>	30/03/93	<b>Elevation:</b>	270 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6746226 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	380841 Datum: AGD84	<b>Drainage:</b>	Moderately well 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 plains <9m 1-3% **Pattern Type:** Plain

<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition** Firm

#### Erosion

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic Brown Chromosol		<b>Principal Profile Form:</b>	Db3.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance** Cultivation. Rainfed

#### Vegetation

**Surface Coarse Fragments** 2-10%, medium gravelly, 6-20mm, angular, Ironstone; 0-2%, , angular, Igneous rock (unidentified)

#### Profile Morphology

A	0 - 0.08 m	Olive brown (2.5Y4/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Angular blocky; Dry;
		Weak consistence; 10-20%, Ironstone, coarse fragments; Field pH 6 (pH meter); Abrupt, Smooth change to -
B21	0.08 - 0.44 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Dry;
Loose		consistence; 20-50%, Ironstone, coarse fragments; Field pH 6 (pH meter); Clear, Wavy change to -
B22	0.44 - 0.63 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Dry;
Loose		consistence; 50-90%, Ironstone, coarse fragments; Field pH 6 (pH meter);
	0.63 - m	;

#### Morphological Notes

B21	Quite compact. Very fine roots.
B22	Quite compact. ferruginous duricrust

#### Observation Notes

#### Site Notes

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0003 **Observation** 1  
**Agency Name:** Agriculture Western Australia

**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 - 0.08	5.4B 6.4H	8B	1.42H	0.6	0.41	0.15	<0.02J		2.58D	
0.08 - 0.44	5.4B 6.5H	2B	1.53H	0.72	0.13	0.1	<0.02J		2.48D	
0.44 - 0.63	6.4B 6.8H	11B	2.01A	2.08	0.08	0.19			4.36D	

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 - 0.08		0.77D		160B	0.062E			
8.1								
0.08 - 0.44		0.31D		55B	0.032E			
23.4								
0.44 - 0.63		0.1D		54B	0.016E			
15.3								

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0003 **Observation** 1  
**Agency Name:** Agriculture Western Australia

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)