

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0695 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose	Locality:
Date Desc.: 23/02/93	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6693847 AMG zone: 50	Runoff: No Data
Easting/Lat.: 449636 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: Hills
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Loose

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Basic Fluvic Orthic Tenosol	Principal Profile Form: Uc5.22
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Ap	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Single grain grade of structure; Earthy fabric; Dry;
		Loose consistence; Field pH 6.8 (pH meter); Abrupt, Smooth change to -
A12	0.1 - 0.17 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Weak grade of structure, 2-5 mm, Platy; Rough-
		ped fabric; Dry; Weak consistence; Abrupt, Smooth change to -
B	0.17 - 0.3 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Single grain grade of structure; Earthy fabric; Dry; Very
		weak consistence; Other pans, Weakly cemented, Massive; Field pH 5.3 (pH meter); Clear change to -
B	0.3 - 0.5 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Single grain grade of structure; Earthy fabric; Dry; Very
		weak consistence; 2-10%, Quartz, coarse fragments; Clear change to -
B	0.5 - 0.95 m	Brownish yellow (10YR6/8-Moist); ; Sandy loam; Single grain grade of structure; Earthy fabric; Dry; Very
		weak consistence; 2-10%, Quartz, coarse fragments; Field pH 5.3 (pH meter); Gradual change to -
B	0.95 - 1.35 m	Brownish yellow (10YR6/8-Moist); ; Sandy loam; Single grain grade of structure; Earthy fabric; Dry; Very
		weak consistence; 2-10%, Quartz, coarse fragments; Field pH 5.4 (pH meter);
	1.35 - m	; Sandy loam;

Morphological Notes

B	5 % fine rounded quartz and ferruginous gravels.
B	Quartz and ferruginous gravels - 2%.
B	2 % fine rounded quartz and ferruginous gravels.

Observation Notes

Site Notes

Wodjil sand? Not the worst case. Roots to base of fifth horizon.

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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	5.6B 6.1H	13B	2.77H	0.41	0.12	0.19	<0.02J		3.49D	
0.17 - 0.3	4.3B 4.8H	3B	0.49H	0.15	0.03	0.02	0.34J		0.69D	
0.3 - 0.5	4.4B 4.8H	3B	0.75H	0.26	0.03	0.04	0.15J		1.08D	
0.5 - 0.95	4.7B 5.1H	3B	0.69H	0.44	<0.02	0.07	0.02J		1.21D	
0.95 - 1.35	4.8B 5H	3B	0.62H	0.7	0.02	0.06	0.03J		1.4D	

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		0.93D		130B	0.059E			87.5I 3.5
0.17 - 0.3		0.21D		28B	0.017E			82I 3.5
0.3 - 0.5		0.07D		24B	0.01E			80.5I 3.5
0.5 - 0.95		0.06D		25B	0.011E			79.5I 4.5
0.95 - 1.35		0.04D		26B	0.006E			77.5I 4.5

Laboratory Analyses Completed for this profile

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