Project Name: **Three Springs Latham land resources survey**
Project Code: **TSL** **Site ID:** **0477** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Christopher Grose
Date Desc.: 14/09/93
Map Ref.:
Northing/Long.: 6726917 AMG zone: 50
Easting/Lat.: 416303 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

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

Landform

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

Morph. Type: Crest
Elem. Type: Hillcrest
Slope: %
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

Soil Classification

Australian Soil Classification:
Acidic Dystrophic Brown Dermosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Gn3?
Great Soil Group: N/A

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

10-20%, medium gravelly, 6-20mm, subrounded, Ironstone

Profile Morphology

Ap 0 - 0.1 m Very dark brown (10YR2/3-Moist); ; Sandy loam; Strong grade of structure, 10-20 mm, Angular blocky;
Dry; 20-50%, coarse fragments; Field pH 5.8 (pH meter);

B 0.1 - 0.65 m Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Moderately moist;

B 0.65 - 1 m Brownish yellow (10YR6/8-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular
blocky; 20-50%, Quartz, coarse fragments; Field pH 4.5 (pH meter);

1 - m ; Sandy clay loam;

Morphological Notes

B Structure breaking to mf SAB. Intermittent ferruginous gravels at the top of layer two. Roots
penetrating around blocks rather than through to top of layer 3.
B Gravels are 2-3mm in size, and the layer is very permeable.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.3B 5H 4.9B	5B	0.99H	0.24	0.1	0.1	0.49J		1.43D	
0 - 0.1	4.3B 5H 4.9B	5B	0.99H	0.24	0.1	0.1	0.49J		1.43D	
0.15 - 0.25	3.8B									
0.3 - 0.4	4B 4.4H	8B	0.63H	0.23	0.04	0.1	1.11J		1D	
0.4 - 0.5	3.8B									
0.8 - 0.9	3.9B 4H	7B	0.12H	0.08	0.03	0.03	1.34J		0.26D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size			Analysis
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.18D		250B	0.064E						5.6
14.8											
0 - 0.1		1.18D		250B	0.064E						5.6
14.8											
0.15 - 0.25											
0.3 - 0.4		0.38D		47B	0.029E						5.4
28.5											
0.4 - 0.5											
0.8 - 0.9		0.11D		29B	0.01E						8.6
22											

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
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)

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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)