Project Name: Three Springs Latham land resources survey

Project Code: Observation ID: 1 **TSL** Site ID: 0350

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose Locality: 19/08/93

Date Desc.: Map Ref.:

Elevation: No Data Rainfall: No Data

Northing/Long.: 6717190 AMG zone: 50 Runoff: No Data Easting/Lat.: 418945 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 plains <9m 1-3% Pattern Type: Hills

Morph. Type: Mid-slope Relief: No Data Hillslope Slope Category: No Data Elem. Type: Slope: 2 % Aspect: No Data

Surface Soil Condition Surface crust, Hardsetting

Erosion

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Dy5.11 Haplic Eutrophic Yellow Chromosol **Principal Profile Form:** ASC Confidence: **Great Soil Group:** N/A

Confidence level not specified

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Aр 0 - 0.1 m

Dry; Weak

Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Weak grade of structure, 2-5 mm, ;

consistence; Field pH 5.8 (pH meter); Clear, Smooth change to -

0.1 - 0.25 m В

Angular blocky;

Brownish yellow (10YR6/8-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Moist; Weak consistence; 2-10%, Ironstone, coarse fragments; Field pH 5.8 (pH meter);

Gradual,

Smooth change to -

R 0.25 - 0.55 m Angular blocky;

Brownish yellow (10YR6/8-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm,

Moist; Weak consistence; 20-50%, Ironstone, coarse fragments; Field pH 6 (pH meter);

Gradual, Wavy

change to -

0.55 - 0.85 m В

meter):

Brownish yellow (10YR6/6-Moist); ; Sandy clay loam; Strong consistence; Field pH 6 (pH

BC 0.85 - 1.05 m

50%, 5-15mm,

Brownish yellow (10YR6/8-Moist); , 10YR72, 20-50% , 5-15mm, Distinct; , 10R46, 20-

Distinct; Sandy clay loam; Strong consistence; Field pH 6.8 (pH meter);

Morphological Notes

Very firm intermitently indurated laterite gravels in SCL mix. вС Similar to layer 4 but more massive and strongly cemented.

Observation Notes

Site Notes

Common roots to 60 cm. Roots penetrate to at least 90 cm.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	oa mg				Cmol (+)/kg			%
0 - 0.1	4.6B 5.5H	2B	0.98H	0.25	0.12	0.03	0.17J		1.38D	
0.15 - 0.25	4.3B 5.1H	2B	0.96H	0.32	0.11	0.02	0.21J		1.41D	
0.35 - 0.45	4.7B 5.4H	4B	1.37H	0.6	0.08	0.04	0.06J		2.09D	
0.65 - 0.75	4.8B 5.2H	8B	1.65H	1.9	0.09	0.15	0.09J		3.79D	
0.95 - 1.05	5.3B 5.7H	7B	0.92H	1.88	0.07	0.34	<0.02J		3.21D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 10.3		0.65D		170B	0.038E						3.5
0.15 - 0.25 24.4		0.27D		36B	0.016E						3.3
0.35 - 0.45		0.36D		41B	0.023E						3.4
27.1 0.65 - 0.75 39.8		0.14D		37B	0.009E						5.1
0.95 - 1.05 21.6		0.06D		21B	0.002E						3.9

Laboratory Analyses Completed for this profile

	, , , , , , , , , , , , , , , , , , ,
	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
lts	
	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
_	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases
_	
_	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
_	Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
_	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
	pH of 1:5 soil/0.01M calcium chloride extract - direct
	Organic carbon (%) - Uncorrected Walkley and Black method
	Total nitrogen - semimicro Kjeldahl, steam distillation
	, ,
	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
	Anion storage capacity 1000 to 2000u particle size analysis, (method not recorded)
_	20 to 75u particle size analysis, (method not recorded)
	75 to 106u particle size analysis, (method not recorded)
	Clay (%) - Not recorded
	Sand (%) - Not recorded arithmetic difference, auto generated
	Silt (%) - Not recorded antimetic difference, auto generated
	106 to 150u particle size analysis, (method not recorded)
_	150 to 180u particle size analysis, (method not recorded)
_	
_	180 to 300u particle size analysis, (method not recorded)
_	300 to 600u particle size analysis, (method not recorded)
100001000	600 to 1000u particle size analysis, (method not recorded)
	15_NR_BSa 15_NR_CMR 15E1_AL 15E1_CA 15E1_K 15E1_MG 15E1_MA 15E1_NA 15E1_NA 15E1_NA 15E1_NA 15E1_NA 15E1_NA 15D_BASES 15N1_b 3_NR 4_NR 4_NR 4B1 6A1_UC 7A1 9A3 9H1 9H0_1020_75 P10_1020_75 P10_NR_C P10_NR_C P10_NR_C P10_NR_Z P10_NR_Z P10106_150 P10180_300 P10300_600 P106001000