Project Project Agency		TSL	ee Springs Latham land - Site ID: riculture Western Austral	0329	-	/ bservatio	on ID: 1	1		
Desc. By Date Des Map Ref Northing	sc.: .: g/Long.:	Christ 10/08/ 67192	252 AMG zone: 50	Locality: Elevation: Rainfall: Runoff:		300 metro No Data No Data				
Easting/ Geolog		40475	5 Datum: AGD84	Drainage:		Moderately well drained				
Exposur Geol. Re	eType:	Soil pi No Da		Conf. Sub. is Pare Substrate Material						
Landform Rel/Slope Class: Gentl		Gently	y undulating rises 9-30m 1-3	%		Pattern Type:		Hills		
Elem. Type: Hillslo		Lower Hillslo 3 %	r-slope ope	Relief: Slope Category: Aspect:		No Data No Data No Data				
•	e Soil Co		5 Firm, Hardsetting			110 2 4 14				
Erosior	-									
	ssificati									
Australian Soil Classif Haplic Hypocalcic Grey				••		. . .		N/A Dy5.13		
ASC Confidence:				Great Soil Group:			N/A			
Confidence level not spe										
Vegetat		<u>e</u> Cu	Itivation. Rainfed							
	Coarse	Frag	ments							
	Morphol									
Ap pH 4.7 (pH	0 - 0.2 m 1		Dark brown (7.5YR3/3-Moist); ; Loamy co	arse sa	nd; Moist;	Very wea	ak consistence; Field		
r u			meter);							
A3 0.2 - 0.35 m Angular blocky;		i m	Reddish brown (5YR4/4-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm,							
			Moderately moist; Weak consistence; Field pH 6.7 (pH meter);							
2B21 0.35 - 0.6 m		5 m	Pinkish grey (7.5YR6/2-Moist); Mottles, 5YR56, 10-20% , 0-5mm, Distinct; Coarse sandy							
light clay;			Moderate grade of structure; Dry; 20-50%, Quartz, coarse fragments; Ferricrete,							
Moderately cemented,		ed,	Massive; Field pH 7 (pH meter);							
2B22	0.6 - 1.05	m	Pinkish grey (7.5YR6/3-Mois	,-	5VP5/	10-20%	0-5mm	Distinct: Coarse		
sandy clay		,								
consistence; 20-509		6,	Weak grade of structure, 20-	50 mm, Ang	ular bloc	ску; моаеі	rately mol	ist; very firm		
			Quartz, coarse fragments; S	oil matrix is S	Slightly o	calcareous	; Field p⊢	1 8.5 (pH meter);		
R	1.05 - m		Rock							

R Rock is Kaolinised granite. White in colour.

Observation Notes

Site Notes

Main roots go down to bottom of second but some into third.

Project Name:	Three Springs Latham land resources survey				
Project Code:	TSL	Site ID:	0329	Observation	1
Agency Name:	Agriculture Western Austr		alia		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	••				(+)/kg			%
0 - 0.1	4.3B 5.2H	4B	1.44H	0.34	0.24	0.03	0.28J		2.05D	
0.15 - 0.25	5.7B	3B	2.64A	0.9	0.21	0.15			3.9D	
	6.7H		2.64A	0.9	0.21	0.15			3.9D	
	5.7B									
	6.7H									
0.15 - 0.25	5.7B	3B	2.64A	0.9	0.21	0.15			3.9D	
	6.7H		2.64A	0.9	0.21	0.15			3.9D	
	5.7B									
	6.7H									
0.35 - 0.45	6.4B	18B	2.7A	3.21	0.31	1.46			7.68D	
	7.6H									
0.65 - 0.75	7.8B	97B	2.62E	10.62	1.25	6.62		26B	21.11D	25.46
	8.5H									

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 5.8		0.63D		150B	0.04E						4.5
0.15 - 0.25 9.5		0.34D		91B	0.022E						7.1
0.0		0.34D 9.5		91B	0.022E						7.1
0.15 - 0.25 9.5		0.34D		91B	0.022E						7.1
5.5		0.34D 9.5		91B	0.022E						7.1
0.35 - 0.45 20.5		0.22D		54B	0.017E						6.7
0.65 - 0.75 53.1	<2C	0.1D		41B	0.014E						2.8

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K for coluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

soluble salts

15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG	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

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	Project Name: Project Code: Agency Name:	Three Springs Latham land resources survey TSL Site ID: 0329 Observation 1 Agriculture Western Australia
15N1_aExchangeable sodium percentage (ESP) - Auto calculated from available using CEC15N1_bExchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cation19B_NRCalcium Carbonate (CaCO3) - Not recorded3_NRElectrical conductivity or soluble salts - Not recorded4_NRpH of soil - Not recorded4B_AL_NRAluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded4B1pH of 1:5 soil/0.01M calcium chloride extract - direct	15E1_NA 15J_BASES 15L1_a	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
7A1Total nitrogen - semimicro Kjeldahl, steam distillation9A3Total Phosphorus (ppm) - semimicro kjeldahl, automated colour9H1Anion storage capacityP10_1m2m1000 to 2000u particle size analysis, (method not recorded)P10_20_7520 to 75u particle size analysis, (method not recorded)P10_75_10675 to 106u particle size analysis, (method not recorded)P10_NR_CClay (%) - Not recordedP10_NR_SaaSand (%) - Not recordedP10106_150106 to 150u particle size analysis, (method not recorded)P10106_150106 to 150u particle size analysis, (method not recorded)P10180_300180 to 300u particle size analysis, (method not recorded)P10180_300300 to 600u particle size analysis, (method not recorded)	15N1_a 15N1_b 19B_NR 3_NR 4_NR 4 4_NR 4 4B_AL_NR 4 4B1 4 6A1_UC 6 7A1 7 9A3 7 9H1 7 P10_1m2m 7 P10_20_75 2 P10_75_106 7 P10_NR_C 6 P10_NR_Saa 9 P10106_150 7 P10150_180 7 P10180_300 7	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded 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 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded)