

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2337 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 21/09/95
Map Ref.:
Northing/Long.: 6314300 AMG zone: 50
Easting/Lat.: 585230 Datum: AGD84
Locality:
Elevation: 290 metres
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

Land Form

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

Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 12 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Soft

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
 Ferric-Sodic Dystrophic Brown Kandosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Gn2.22
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1 0 - 0.08 m 20%, fine subrounded,	Brown (10YR4/3-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Dry; 10- gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
B21w 0.08 - 0.5 m Dry; 20-50%, subrounded,	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; fine gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, coarse fragments; Field pH 6 (Raupach); Clear, Wavy change to -
B22cw 0.5 - 0.7 m moist; 20-50%, subrounded,	Yellowish brown (10YR5/8-Moist); , 0-0% ; Single grain grade of structure; Moderately fine gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, coarse fragments; Field pH 6.5 (Raupach); Abrupt, Smooth change to -
C 0.7 - 0.9 m Mottles, 10YR74, 2- subrounded, , Field pH 7	Yellowish brown (10YR5/6-Moist); Mottles, 10R46, 20-50% , 15-30mm, Prominent; 10% , 15-30mm, Distinct; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; (Raupach);

Morphological Notes

C Petroreticulite - hard cemented gravel layer

Observation Notes

Site Notes

lupin crop

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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 - 0.08	5.2B	3B	3.39A	0.74	0.5	0.08			4.71D	
	6.3H									
0 - 0.08	5.2B	3B	3.39A	0.74	0.5	0.08			4.71D	
	6.3H									
0.08 - 0.25	5.8B	3B	2.21A	0.63	0.19	0.07			3.1D	
	6.6H									
0.08 - 0.25	5.8B	3B	2.21A	0.63	0.19	0.07			3.1D	
	6.6H									
0.25 - 0.5	5.4B	4B	1.71H	0.75	0.08	0.04	<0.02J		2.58D	
	6H									
0.25 - 0.5	5.4B	4B	1.71H	0.75	0.08	0.04	<0.02J		2.58D	
	6H									
0.5 - 0.7	5.8B	4B	1.61H	1.13	0.04	0.1	<0.02J		2.88D	
	6.4H									
0.5 - 0.7	5.8B	4B	1.61H	1.13	0.04	0.1	<0.02J		2.88D	
	6.4H									
0.7 - 0.9	6.4B	6B	1.33A	1.18	0.03	0.2			2.74D	
	6.7H									
0.7 - 0.9	6.4B	6B	1.33A	1.18	0.03	0.2			2.74D	
	6.7H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.08	0C	1.28D		220B	0.103E			7.7
9.6								
0 - 0.08	0C	1.28D		220B	0.103E			7.7
9.6								
0.08 - 0.25	0C	0.23D		49B	0.027E			7.9
14.1								
0.08 - 0.25	0C	0.23D		49B	0.027E			7.9
14.1								
0.25 - 0.5	0C	0.15D		44B	0.02E			7.1
17								
0.25 - 0.5	0C	0.15D		44B	0.02E			7.1
17								
0.5 - 0.7	0C	0.2D		50B	0.025E			5.8
17.3								
0.5 - 0.7	0C	0.2D		50B	0.025E			5.8
17.3								
0.7 - 0.9	0C	0.07D		38B	0.01E			3.6
6.1								
0.7 - 0.9	0C	0.07D		38B	0.01E			3.6
6.1								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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 (Ca ²⁺ ,Mg ²⁺ ,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

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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
19B_NR	Calcium Carbonate (CaCO3) - 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
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_gt2m	> 2mm 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)
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)