

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0499 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 08/10/92
Map Ref.:
Northing/Long.: 6344170 AMG zone: 50
Easting/Lat.: 517790 Datum: AGD84
Locality:
Elevation: 338 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Relief: 40 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Basic Petroferric Sequi-Nodular Tenosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc5.1
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, rounded, ; 2-10%, , rounded,

Profile

A1 0 - 0.1 m structure; Moist; medium (2 -6 mm), -	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of Loose consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, gravelly, 6-20mm, rounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Medium Nodules; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
B21cw 0.1 - 0.3 m consistence; gravelly, 20-60mm, 60 mm),	Yellowish brown (10YR5/6-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse subrounded, , coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - Nodules; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Clear, Smooth change to -
B22cw 0.3 - 0.5 m consistence; 20mm, coarse fragments; (Raupach);	Brownish yellow (10YR6/6-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6- subrounded, , coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, , Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 6 Abundant, fine (1-2mm) roots; Sharp, Smooth change to -
C 0.5 - 0.9 m 20-50%, 60mm, 60 mm),	Brownish yellow (10YR6/6-Moist); , 0-0% ; Massive grade of structure; Moderately moist; medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse gravelly, 20- subrounded, , coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - Nodules; Field pH 6 (Raupach); Common, fine (1-2mm) roots;

Morphological Notes

B21cw Clayey medium sand

C

Clayey coarse sand

Observation Notes**Site Notes****Project Name:** Katanning land resources survey**Project Code:** KLC**Site ID:** 0499**Observation** 1**Agency Name:** Agriculture Western Australia**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.9B 5.8H 5.1B 5.9H	2B 6B	4.28H	0.44	0.09	0.03	0.62J		4.84D	
0 - 0.1	4.9B 5.8H 5.1B 5.9H	2B 6B	4.28H	0.44	0.09	0.03	0.62J		4.84D	
0 - 0.1	4.9B 5.8H 5.1B 5.9H	2B 6B	4.28H	0.44	0.09	0.03	0.62J		4.84D	
0 - 0.11 0 - 0.1	5.01B 4.9B 5.8H 5.1B 5.9H	2B 6B	4.28H	0.44	0.09	0.03	0.62J		4.84D	
0.1 - 0.3	5.3B 6.2H	1B	1.15H	0.26	0.08	0.03	0.06J		1.52D	
0.1 - 0.3	5.3B 6.2H	1B	1.15H	0.26	0.08	0.03	0.06J		1.52D	
0.16 - 0.26 0.3 - 0.5	5.21B 5.2B 6H	1B	0.81H	0.29	0.04	0.04	0.05J		1.18D	
0.3 - 0.5	5.2B 6H	1B	0.81H	0.29	0.04	0.04	0.05J		1.18D	
0.41 - 0.51	5.26B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.1 4.1		3.12D		420B	0.201E					4.7
0 - 0.1 4.1		3.73D 3.12D		460B 420B	0.254E 0.201E					4.7
0 - 0.1 4.1		3.73D 3.12D		460B 420B	0.254E 0.201E					4.7
0 - 0.11 0 - 0.1 4.1		3.73D 3.12D		460B 420B	0.254E 0.201E					4.7
0.1 - 0.3 5.2		3.73D 0.4D		460B 70B	0.254E 0.02E					2.8
0.1 - 0.3 5.2		0.4D		70B	0.02E					2.8
0.16 - 0.26 0.3 - 0.5 7.7		0.26D		51B	0.014E					2.7
0.3 - 0.5 7.7		0.26D		51B	0.014E					2.7
0.41 - 0.51										

Laboratory Analyses Completed for this profile

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

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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 (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
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn ²⁺) 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
18A1_NR	Bicarbonate-extractable potassium (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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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)