Project Name: Project Code: Agency Name:	Katanning land resources s KLC Site ID: Agriculture Western Austra	1586 O	bservation ID:	1					
Date Desc.: 1 Map Ref.: Northing/Long.: 6	leather Percy 5/02/94 297970 AMG zone: 50 84240 Datum: AGD84	Locality: Elevation: Rainfall: Runoff: Drainage:	297 metres No Data No Data Imperfectly draine	d					
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia							
Land Form Rel/Slope Class: (	Gently undulating rises 9-30m 1-3	8%	Pattern Type:	Rises					
Elem. Type: H Slope: 2	Mid-slope Hillslope 2 %	Relief: Slope Category: Aspect:	12 metres No Data 0 degrees						
Surface Soil Con Erosion: (wind);	<u>dition</u> Cracking, Hardse (sheet) (rill) (gully)	etting							
Soil Classificatio	<u>n</u>			N1/A					
Australian Soil Clas	ssification:	Princi	ng Unit: pal Profile Form:	N/A Dy3.13					
ASC Confidence: Confidence level no	t specified	Great	Soil Group:	N/A					
<u>Site</u> Vegetation:	Cultivation. Rainfed								
Surface Coarse	10-20%, medium g	ravelly, 6-20mm, ang	jular, Quartz; 2-10%	, , subangular, Quartz					
Profile A1p 0 - 0.07 m consistence;	Dark grey (2.5Y4/1-Moist); ,	0-0% ; Sandy loam;	Massive grade of s	tructure; Dry; Strong					
gravelly, 6-20mm,	20-50%, fine gravelly, 2-6m	20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 20-50%, medium							
roots; Abrupt,	angular, Quartz, coarse frag	angular, Quartz, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm)							
····, ·····	Wavy change to -	Wavy change to -							
B21 0.07 - 0.3 n structure, 200-	n Light yellowish brown (10YF	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Light medium clay; Moderate grade of							
6mm, angular,		500 mm, Prismatic; Rough-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-							
very fine (0-	-	Quartz, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few,							
	1mm) roots; Clear, Smooth	•							
B22 0.3 - 0.65 n medium clay;		Pale brown (10YR6/3-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; Light							
consistence; Soil	J. J	Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong							
Clear, Wavy	matrix is Slightly calcareous change to -	matrix is Slightly calcareous; Field pH 9.5 (Raupach); Common, very fine (0-1mm) roots;							
B3 0.65 - 1.15	5	/2-Moist); Mottles, 10	0YR81, 20-50% , 15	-30mm, Distinct; ,					
10YR58, 10-20%	, 15-30mm, Distinct; Light c	, 15-30mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Polyhedral;							
Smooth-ped fabric;	Dry; Very strong consistenc	e; 20-50%, fine grav	elly, 2-6mm, subrou	nded, Granite, coarse					
fragments;	Field pH 6 (Raupach); Few,	-	-						
C 11E 1 E ~		HING 10VD59 10 00	0/ 5 15mm Diation	t: Clavov coorco					
C 1.15 - 1.5 n sand; Massive									
fragments;	grade of structure; Dry; 20-5	oo 10, coarse gravelly	, ∠0-00mm, subioun	iueu, Granile, Coarse					
	rieiu pri 4 (Kaupach);	Field pH 4 (Raupach);							

## Morphological Notes

B21	Roots outside peds kaolinitic clay
B22	Kaolinitic clay
B3	Mainly Feldspar - Kaolinitic clay
С	Kaolinised granite rock

# **Observation Notes**

## Site Notes

Project Name:	Katanning I	and resources	survey		
Project Code:	KLC	Site ID:	1586	Observation	1
Agency Name:	Agriculture	Western Austr	alia		

## Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	xchangeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	••	9			(+)/kg			%
0 - 0.07	5.5B 6H	55B	4.9H	4.5	0.6	0.57	0.02J		10.57D	
0 - 0.1	6.2B 6.8H	52B								
0 - 0.07	5.5B 6H	55B	4.9H	4.5	0.6	0.57	0.02J		10.57D	
0 - 0.08	5.6B									
0 - 0.1	6.2B 6.8H	52B	_					_	_	
0.07 - 0.27	7.3B 8.1H	35B	4.7E	5.7	0.58	1.3		14B	12.28D	9.29
0.07 - 0.27	7.3B 8.1H	35B	4.7E	5.7	0.58	1.3		14B	12.28D	9.29
0.15 - 0.25	7.8B	050	0.75	0	0.50	0.5		100	10 700	40.00
0.27 - 0.3	8B 8.7H	65B	3.7E	6	0.56	2.5		13B	12.76D	19.23
0.27 - 0.3	8B 8.7H	65B	3.7E	6	0.56	2.5		13B	12.76D	19.23
0.3 - 0.6	7.9B 8.4H	120B	3.1E	6.4	0.59	2.9		14B	12.99D	20.71
0.3 - 0.6	7.9B 8.4H	120B	3.1E	6.4	0.59	2.9		14B	12.99D	20.71
0.4 - 0.5	7.9B	0000	0.54		0.57				44.070	
0.6 - 0.65	7.4B 7.7H	200B	2.5A	7.7	0.57	3.3			14.07D	
0.6 - 0.65	7.4B 7.7H	200B	2.5A	7.7	0.57	3.3			14.07D	
0.65 - 0.95	5.5B 5.6H	420B	1.9H	8	0.36	2.6	<0.02J		12.86D	
0.65 - 0.95	5.5B 5.6H	420B	1.9H	8	0.36	2.6	<0.02J		12.86D	
0.95 - 1.15	4.5B 4.6H	590B	1.7H	7	0.37	3.9	0.05J		12.97D	
0.95 - 1.15	4.5B 4.6H	590B	1.7H	7	0.37	3.9	0.05J		12.97D	
1.15 - 1.4	4.3B 4.4H	1000B	1.6H	5.8	0.37	6.4	0.04J		14.17D	
1.15 - 1.4	4.3B 4.4H	1000B	1.6H	5.8	0.37	6.4	0.04J		14.17D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	GV F	Particle CS	Size / FS %	Analysis Silt
0 - 0.07		1.75D		240B	0.135E						7.5
22.2 0 - 0.1 0 - 0.07		1.42D 1.75D		160B 240B	0.105E 0.135E						7.5
22.2 0 - 0.08											

0 - 0.1		1.42D	160B	0.105E	
0.07 - 0.27	<2C	0.6D	67B	0.042E	5.3
48.9					
0.07 - 0.27	<2C	0.6D	67B	0.042E	5.3
48.9					

Project Nam Project Code Agency Nam	e: K	atanning land LC griculture We	Site ID:	1586	Observation	1	
0.15 - 0.25							
0.27 - 0.3	<2C	0.27D	45B	0.021E			5.3
61.2							
0.27 - 0.3 61.2	<2C	0.27D	45B	0.021E			5.3
01.2	<2C	0.17D	40B	0.017E			5.9
66.3	<b>N20</b>	0.17D	400	0.017			5.5
0.3 - 0.6	<2C	0.17D	40B	0.017E			5.9
66.3							
0.4 - 0.5		_	_				
0.6 - 0.65		0.16D	44B	0.013E			8.6
73.4 0.6 - 0.65		0.16D	44B	0.013E			8.6
73.4		0.100	44D	0.013			0.0
0.65 - 0.95		0.29D	41B	0.015E			13.6
64.3							
0.65 - 0.95		0.29D	41B	0.015E			13.6
64.3		0.00	500	0.0405			40.4
0.95 - 1.15 47.9		0.3D	52B	0.012E			16.1
0.95 - 1.15		0.3D	52B	0.012E			16.1
47.9		0.02	020	0.0122			10.1
1.15 - 1.4		0.27D	36B	0.011E			9.4
30		_	_				
1.15 - 1.4		0.27D	36B	0.011E			9.4
30							

### 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
15A1_CEC 15A1_K for soluble	salts 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
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	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 soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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 15E1_MN 15E1_NA 15J_BASES 15L1_a Sum of Cations	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 bases Base saturation percentage (BSP) - Auto calculated from available using

	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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
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)