Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 1022 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts Locality:

Date Desc.:10/10/97Elevation:No DataMap Ref.:Rainfall:No DataNorthing/Long.:6255885 AMG zone: 50Runoff:No Data

Northing/Long.: 6255885 AMG zone: 50 Runoff: No Data Easting/Lat.: 650508 Datum: AGD84 Drainage: No Data

<u>Geology</u>

 ExposureType:
 Soil pit
 Conf. Sub. is Parent. Mat.:
 No Data

 Geol. Ref.:
 No Data
 Substrate Material:
 No Data

Landform

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Mid-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHypocalcic Mottled-Hypernatric Grey SodosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

All necessary analytical data are available.

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1c 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; 10-20%, Ironstone, coarse

fragments; Field pH 6.3 (pH meter);

A2ec 0.1 - 0.15 m White (10YR8/1-Moist); ; Sand; 10-20%, Ironstone, coarse fragments; Field pH 6.9 (pH

meter);

B21ct 0.15 - 1.1 m Grey (10YR6/1-Moist); , 10YR66; 20-50%, Ironstone, coarse fragments; Soil matrix is

Moderately

calcareous; Field pH 9 (pH meter);

B22t

B23ct 2 - 2.3 m Light grey (10YR7/1-Moist); ; 10-20%, Ironstone, coarse fragments; Field pH 4.5 (pH

meter);

Morphological Notes

A1c Gravelly sandy loam.

A2ec Bleached gravelly sand.

B21ct Grey clay, yellow mottles.

B22t Grey clay, red mottles.

B23ct Grey kaolinite clay with gravel.

Observation Notes

Site Notes

Soil pit. On top of layer #3, it is compacted. Plant roots restricted by layer #3.

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Laboratory Test Results:

Exchangeable Cations Depth рΗ 1:5 EC Exchangeable CEC **ECEC ESP** Ca Κ Na Acidity Mg m dS/m Cmol (+)/kg % 0 - 0.15.3B 19B 4.01H 1.24 0.58 0.98 0.04J 6.81D 6.3H

0 - 0.1	5.3B 6.3H	19B	4.01H	1.24	0.58	0.98	0.04J		6.81D	
0.1 - 0.15	6B 7.3H	10B	1.92A	1.39	0.19	0.77			4.27D	
0.1 - 0.15	6B 7.3H	10B	1.92A	1.39	0.19	0.77			4.27D	
0.15 - 1.1	7.7B 9H	27B	1.66E	7	0.53	4.47		16B	13.66D	27.94
0.15 - 1.1	7.7B 9H	27B	1.66E	7	0.53	4.47		16B	13.66D	27.94
1.1 - 2	5.4B 5.7H	140B	0.11H	4.31	0.39	5.24	0.1J		10.05D	
1.1 - 2	5.4B 5.7H	140B	0.11H	4.31	0.39	5.24	0.1J		10.05D	
2 - 2.3	4.2B 4.4H	460B	0.06H	4.61	0.37	3.19	0.67J		8.23D	
2 - 2.3	4.2B 4.4H	460B	0.06H	4.61	0.37	3.19	0.67J		8.23D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analys FS Silt	
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 6.6		1.65D		180B	0.103E				6.	.5
0 - 0.1		1.65D		180B	0.103E				6.	.5
6.6 0.1 - 0.15 11.5		0.58D		46B	0.031E				5.	.6
0.1 - 0.15		0.58D		46B	0.031E				5.	.6
11.5 0.15 - 1.1 47.9		0.15D		31B	0.014E				5	5
0.15 - 1.1		0.15D		31B	0.014E				5	5
47.9 1.1 - 2 42.6		0.1D		38B	0.007E				4.	.3
1.1 - 2		0.1D		38B	0.007E				4.	.3
42.6 2 - 2.3 62		0.17D		21B	0.007E				1.	.8
2 - 2.3 62		0.17D		21B	0.007E				1.	.8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC 15A1_K	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	Exchangeable bases (Caz+,Nigz+,Na+,N+) - TW animonium chonde at pri 7.0, no pretreatment
	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,
procedurion for	soluble salts

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15C1 CEC 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_K soluble salts 15C1_MG Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts 15C1 NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts 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 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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Sum of Bases 15J_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 Bicarbonate-extractable potassium (not recorded) 18A1_NR Electrical conductivity or soluble salts - Not recorded 3_NR pH of soil - Not recorded 4_NR 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 pH buffering capacity, (method not recorded)
Organic carbon (%) - Uncorrected Walkley and Black method
Total nitrogen - semimicro Kjeldahl, steam distillation 4G_NR 6A1_UC 7A1 7C1a Ammonium-N, in presence or absence of nitrite 7C1e Nitrate-N, in presence of nitrite Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3 9B NR Bicarbonate-extractable phosphorus (not recorded) Anion storage capacity 9H1 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 P10_NR_C > 2mm particle size analysis, (method not recorded) 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)

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)

600 to 1000u particle size analysis, (method not recorded)

P10150_180 P10180 300

P10300 600

P106001000