Project Name: Nyabing Kukerin land resourcs survey

Observation ID: 1 **Project Code:** NYA Site ID: 0730

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts Locality:

Date Desc.: 28/01/97 Elevation: 315 metres Map Ref.: Rainfall: No Data

Northing/Long.: 6295501 AMG zone: 50 Runoff: No Data Drainage: Imperfectly drained

Easting/Lat.: 600274 Datum: AGD84

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data No Data

Landform

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

Morph. Type: Lower-slope Relief: 10 metres Hillslope Slope Category: No Data Elem. Type: Slope: 2 % Aspect: 45 degrees

Surface Soil Condition Loose

(wind); (scald) (sheet) (rill) (mass) (qully) **Erosion**

(stbank) (tunnel)

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Ferric Mottled-Mesonatric Grey Sodosol **Principal Profile Form:** N/A ASC Confidence: **Great Soil Group:** N/A

No analytical data are available but confidence is fair.

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 2-10%, medium gravelly, 6-20mm, subangular, Gravel; No surface coarse

fragments

Profile Morphology

A1p 0 - 0.12 m Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Dry; 2-10%,

fine gravelly, 2-

6mm, subangular, Ironstone, coarse fragments; Field pH 6.5 (Raupach); Clear, Irregular

change to -

0.12 - 0.33 m Brown (10YR4/3-Moist); ; Sand; Single grain grade of structure; Dry; 2-10%, medium

gravelly, 6-20mm,

subangular, Ironstone, coarse fragments; Field pH 6.5 (pH meter); Sharp, Smooth change

to -

B21 0.33 - 0.8 m Pale brown (10YR6/3-Moist); Mottles, 2.5YR48, 10-20%, 5-15mm, Prominent; Mottles,

10YR68, 20-50%

, 30-mm, Distinct; Light clay; Strong grade of structure, 50-100 mm, Columnar; Dry; Field

pH 7 (Raupach); Sharp, Smooth change to -

B22c 0.8 - 1.2 m medium gravelly, 6Light yellowish brown (2.5Y6/4-Moist); ; Massive grade of structure; Dry; 90-100%,

20mm, subrounded, Ironstone, coarse fragments; Soil matrix is Moderately calcareous;

Field pH 7.6 (pH

meter); Sharp, Wavy change to -

B23c 1.2 - 1.45 m Light grey (10YR7/2-Moist); Mottles, 10YR68, 20-50%, 30-mm, Distinct; Sandy light clay;

Massive grade of structure; Dry; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone,

coarse fragments;

Soil matrix is Moderately calcareous; Field pH 8.3 (pH meter);

Morphological Notes

Sandy clayey gravel

Observation Notes

Site Notes

Soil pit.

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Laboratory Test Results:

Depth	pН	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol	Acidity (+)/kg			%
0 - 0.12	4.5B 5.3H	5B	1.41H	0.26	0.11	0.09	0.19J		1.87D	
0 - 0.12	4.5B 5.3H	5B	1.41H	0.26	0.11	0.09	0.19J		1.87D	
0.12 - 0.33	4.9B 5.9H	2B	0.47H	0.15	0.04	0.02	0.05J		0.68D	
0.12 - 0.33	4.9B 5.9H	2B	0.47H	0.15	0.04	0.02	0.05J		0.68D	
0.33 - 0.8	6.3B 7.5H	12B	2.99A	6.3	0.09	2.14			11.52D	
0.33 - 0.8	6.3B 7.5H	12B	2.99A	6.3	0.09	2.14			11.52D	
0.8 - 1.2	7.6B 9.1H	15B	1.66E	4.36	0.18	2.7		13B	8.9D	20.77
0.8 - 1.2	7.6B 9.1H	15B	1.66E	4.36	0.18	2.7		13B	8.9D	20.77
1.2 - 1.45	7.7B 9.2H	17B	1.27E	4.16	0.24	3.96		12B	9.63D	33.00
1.2 - 1.45	7.7B 9.2H	17B	1.27E	4.16	0.24	3.96		12B	9.63D	33.00

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analysis FS Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3		%
0 - 0.12 4		0.94D		130B	0.068E				3.6
0 - 0.12 4		0.94D		130B	0.068E				3.6
0.12 - 0.33 3.6		0.13D		45B	0.01E				3.3
0.12 - 0.33 3.6		0.13D		45B	0.01E				3.3
0.33 - 0.8 64.9		0.09D		32B	0.012E				5.9
0.33 - 0.8 64.9		0.09D		32B	0.012E				5.9
0.8 - 1.2 28		0.06D		32B	0.007E				5.7
0.8 - 1.2		0.06D		32B	0.007E				5.7
28 1.2 - 1.45	<2C	0.05D		25B	0.005E				6.9
27.9 1.2 - 1.45 27.9	<2C	0.05D		25B	0.005E				6.9

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available 15_NR_CMR 15_NR_MN Exchangeable bases (Ca/My ratio) - Not recorded

Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded

Exchangeable bases (May-+) - med per 100g of soil - Not recorded

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

15A1_CA for soluble

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

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

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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 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 18A1 NR Bicarbonate-extractable potassium (not recorded) Calcium Carbonate (CaCO3) - Not recorded 19B NR Electrical conductivity or soluble salts - Not recorded 3_NR 4_NR pH of soil - Not recorded 4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 4B1 4G_NR 6A1_UC pH buffering capacity, (method not recorded) Organic carbon (%) - Uncorrected Walkley and Black method 7A1 Total nitrogen - semimicro Kjeldahl, steam distillation 7C1a Ammonium-N, in presence or absence of nitrite 7C1e Nitrate-N, in presence of nitrite Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded) 9A3 9B NR 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) 75 to 106u particle size analysis, (method not recorded) > 2mm particle size analysis, (method not recorded) P10_75_106 P10_gt2m Clay (%) - Not recorded P10_NR_C P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated P10_NR_Z Silt (%) - Not recorded P10106_150 P10150_180 106 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)

P10180 300 P10300 600

P106001000