

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0728 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts
Date Desc.: 29/01/97
Map Ref.:
Northing/Long.: 6295922 AMG zone: 50
Easting/Lat.: 599365 Datum: AGD84
Locality:
Elevation: 330 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

Landform

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 6 %
Pattern Type: Rises
Relief: 10 metres
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition Loose

Erosion (wind); (scald) (sheet) (rill) (mass) (gully)
 (stbank) (tunnel)

Soil Classification

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

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

Vegetation

Surface Coarse Fragments 90-100%, medium gravelly, 6-20mm, subrounded, Ironstone; 0-2%, ,
 subangular, Ironstone

Profile Morphology

A1c 0 - 0.09 m Dark brown (7.5YR3/3-Moist); ; Clayey sand; Single grain grade of structure; Dry; 20-50%, fine gravelly,
 2-6mm, subrounded, Ironstone, coarse fragments; Field pH 7.3 (pH meter); Sharp, Wavy
 change to -

B21c 0.09 - 0.56 m Strong brown (7.5YR5/6-Moist); ; Sandy loam; Single grain grade of structure; Dry; 50-90%, coarse
 gravelly, 20-60mm, subangular, Ironstone, coarse fragments; Field pH 6.8 (pH meter);
 Clear, Irregular
 change to -

B22c 0.56 - 1.7 m Brownish yellow (10YR6/6-Moist); Mottles, 5YR58, 20-50% , 30-mm, Faint; Mottles,
 2.5YR46, 20-50% ,
 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; 50-90%, coarse
 gravelly, 20-60mm,
 subangular, Ironstone, coarse fragments; Field pH 6.3 (pH meter);

Morphological Notes

B21c PH(R)-7.0
 B22c PH(R)-6.5

Observation Notes

Site Notes

Soil pit located on top of a breakaway.

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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 - 0.09	5.7B 6.2H	52B	12H	3.64	1.99	0.65	0.04J	18.28D
0 - 0.09	5.7B 6.2H	52B	12H	3.64	1.99	0.65	0.04J	18.28D
0.09 - 0.56	6.4B 7H	37B	5.51A	4.78	0.68	0.41		11.38D
0.09 - 0.56	6.4B 7H	37B	5.51A	4.78	0.68	0.41		11.38D
0.56 - 1.7	5.4B 5.9H	29B	0.4H	4.62	0.1	0.42	0.02J	5.54D
0.56 - 1.7	5.4B 5.9H	29B	0.4H	4.62	0.1	0.42	0.02J	5.54D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.09 7.2		2.97D		320B	0.166E			10.9
0 - 0.09 7.2		2.97D		320B	0.166E			10.9
0.09 - 0.56 11.8		0.62D		73B	0.039E			9.8
0.09 - 0.56 11.8		0.62D		73B	0.039E			9.8
0.56 - 1.7 21.6		0.23D		42B	0.016E			4.9
0.56 - 1.7 21.6		0.23D		42B	0.016E			4.9

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
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
15L1_a Sum of Cations	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)
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

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4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
4G_NR	pH buffering capacity, (method not recorded)
6A1_UC	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
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)