

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0727 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Melanie Roberts	Locality:	
Date Desc.:	29/01/97	Elevation:	320 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6296904 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	599721 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

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

Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Sodic Hypocalcic Red Dermosol	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 50-90%, medium gravelly, 6-20mm, subangular, Dolerite; 0-2%, cobbly, 60-200mm, subangular, Quartz

Profile Morphology

A1p	0 - 0.06 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Polyhedral; Dry; 2-10%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Field pH 6.8 (pH meter); Sharp, Wavy change to -
B21	0.06 - 1.05 m	Yellowish red (5YR5/6-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Dry; Soil matrix is Slightly calcareous; Field pH 8.9 (pH meter); Abrupt, Irregular change to -
B22	1.05 - 1.5 m	Brown (7.5YR5/4-Moist); Mottles, 10YR46, 10-20% , 15-30mm, Distinct; Substrate influence, 5YR81, 20- 50% , 30-mm, Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Dry; Soil matrix is Slightly calcareous; Field pH 7.8 (pH meter); Abrupt, Irregular change to -
B3	1.5 - 2.1 m	Yellow (10YR7/8-Moist); Mottles, 10YR46, 10-20% , 30-mm, Distinct; Substrate influence, 5YR81, 20- 50% , 30-mm, Prominent; Clay loam; Moderate grade of structure, 20-50 mm, Polyhedral; Dry; Field pH 7.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Soil pit with very well structured in B21 horizon, rock sample from this pit.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.06	7.2B 8.1H	22B	10.5E	6.1	0.78	1		24B	18.38D	4.17
0 - 0.06	7.2B 8.1H	22B	10.5E	6.1	0.78	1		24B	18.38D	4.17
0.06 - 1.05	8.7B 9.5H	98B	2.54E	9.19	0.66	10.53		24B	22.92D	43.88
0.06 - 1.05	8.7B 9.5H	98B	2.54E	9.19	0.66	10.53		24B	22.92D	43.88
1.05 - 1.5	6.7B 7H	350B	0.6E	7.34	0.28	7.04		15B	15.26D	46.93
1.05 - 1.5	6.7B 7H	350B	0.6E	7.34	0.28	7.04		15B	15.26D	46.93
1.5 - 2.1	6.8B 7.1H	530B	0.3E	5.02	0.17	6.3		9B	11.79D	70.00
1.5 - 2.1	6.8B 7.1H	530B	0.3E	5.02	0.17	6.3		9B	11.79D	70.00

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 - 0.06 38.5	2.5C	1.32D		310B	0.115E					11.4
0 - 0.06 38.5	2.5C	1.32D		310B	0.115E					11.4
0.06 - 1.05 70.3	3.4C	0.2D		69B	0.02E					10.1
0.06 - 1.05 70.3	3.4C	0.2D		69B	0.02E					10.1
1.05 - 1.5 49.8		0.14D		35B	0.005E					22
1.05 - 1.5 49.8		0.14D		35B	0.005E					22
1.5 - 2.1 23.3		0.14D		410B	0.005E					31.6
1.5 - 2.1 23.3		0.14D		410B	0.005E					31.6

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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	
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)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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)