

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0225 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 13/07/95
Map Ref.:
Northing/Long.: 6250740 AMG zone: 50
Easting/Lat.: 625050 Datum: AGD84
Locality:
Elevation: 330 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Landform

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

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 5 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Cracking, Hardsetting

Erosion (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: Hypocalcic Subnatric Grey Sodosol
Mapping Unit: N/A
Principal Profile Form: Dy2.13
ASC Confidence: No analytical data are available but confidence is fair.
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , angular, Quartz

Profile Morphology

Ap 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Coarse sandy clay loam; Massive grade of structure; Moist;
 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt,
 Irregular change to -
 B21 0.1 - 0.25 m Light brownish grey (2.5Y6/3-Moist); Mechanical, 10YR41, 10-20% , 15-30mm, Distinct; Sandy medium
 clay; Strong grade of structure; Rough-ped fabric; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear
 change to -
 B22 0.25 - 0.6 m Light grey (2.5Y7/2-Moist); Mottles, 2.5YR46, 0-2% , 5-15mm, Distinct; Sandy medium clay; Strong
 grade of structure; Rough-ped fabric; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	5.5B 6.3H	16B	7.68H	2.23	0.32	0.44	0.03J	10.67D		
0 - 0.1	5.5B 6.3H	16B	7.68H	2.23	0.32	0.44	0.03J	10.67D		
0 - 0.1	5.5B 6.3H	16B	7.68H	2.23	0.32	0.44	0.03J	10.67D		
0 - 0.1	5.5B 6.3H	16B	7.68H	2.23	0.32	0.44	0.03J	10.67D		
0.1 - 0.3	7.2B 8.3H	11B	4.35E	3.98	0.08	0.94		11B	9.35D	8.55
0.1 - 0.3	7.2B 8.3H	11B	4.35E	3.98	0.08	0.94		11B	9.35D	8.55
0.1 - 0.3	7.2B 8.3H	11B	4.35E	3.98	0.08	0.94		11B	9.35D	8.55
0.15 - 0.25	7.3B									
0.4 - 0.5	7.8B									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³	%				
0 - 0.1		1.84D								76I		7.5
16.5												
0 - 0.1		1.84D								76I		7.5
16.5												
0 - 0.1		1.84D								76I		7.5
16.5												
0 - 0.1		1.84D								76I		7.5
16.5												
0.1 - 0.3	<2C	0.29D								55.5I		4
40.5												
0.1 - 0.3	<2C	0.29D								55.5I		4
40.5												
0.1 - 0.3	<2C	0.29D								55.5I		4
40.5												
0.15 - 0.25												
0.4 - 0.5												

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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

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15E1_MN	Exchangeable bases (Mn2+) 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	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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded