

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0305 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 31/07/95
Map Ref.:
Northing/Long.: 6252550 AMG zone: 50
Easting/Lat.: 632880 Datum: AGD84
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Pattern Type: Rises
Relief: 5 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Eutrophic Mesonatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg2.11
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moist; Field pH 6.5
		(Raupach); Abrupt, Wavy change to -
B21	0.08 - 0.3 m	Very pale brown (10YR7/3-Moist); Mottles, 2.5YR58, 2-10% , 5-15mm, Distinct; Medium clay; Moderate
		grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; Field pH 8 (Raupach);
		Gradual change to -
B22	0.3 - 0.5 m	Light grey (10YR7/2-Moist); Mottles, 2.5YR58, 20-50% , 15-30mm, Distinct; Medium clay; Moderate
		grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; Field pH 7 (Raupach);
		Clear change to -
B3	0.5 - 0.6 m	Light grey (10YR7/2-Moist); Mottles, 5YR58, 20-50% , 15-30mm, Distinct; Light medium clay; Moderate
		grade of structure; Moderately moist; Very firm consistence; Field pH 6 (Raupach);

Morphological Notes

B21 Organic cutans 10YR 4/1.
 B3 Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay". Lab data on Layer 1 has less than 10% clay but have used field texture for classification

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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 - 0.08	5B	14B	3.9H	1.28	0.25	0.33	0.07J		5.76D	

0 - 0.08	6H 5B	14B	3.9H	1.28	0.25	0.33	0.07J	5.76D
0 - 0.08	6H 5B	14B	3.9H	1.28	0.25	0.33	0.07J	5.76D
0.08 - 0.28	6H 6.4B	18B	2.48A	4.3	0.18	1.57		8.53D
0.08 - 0.28	7.4H 6.4B	18B	2.48A	4.3	0.18	1.57		8.53D
0.08 - 0.28	7.4H 6.4B	18B	2.48A	4.3	0.18	1.57		8.53D

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m ³	GV CS FS	Silt
0 - 0.08		2.3D						85I	6.5
8.5									
0 - 0.08		2.3D						85I	6.5
8.5									
0 - 0.08		2.3D						85I	6.5
8.5									
0.08 - 0.28		0.55D						41I	5.5
53.5									
0.08 - 0.28		0.55D						41I	5.5
53.5									
0.08 - 0.28		0.55D						41I	5.5
53.5									

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
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL	salts
15E1_CA	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	Organic carbon (%) - Uncorrected Walkley and Black method
	> 2mm particle size analysis, (method not recorded)

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P10_NR_C Clay (%) - Not recorded
P10_NR_S Sand (%) - Not recorded
P10_NR_Z Silt (%) - Not recorded