

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0388 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 17/08/95 **Elevation:** 280 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6242200 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 622410 Datum: AGD84 **Drainage:** Imperfectly drained

Geology

ExposureType: Auger boring **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:** 5 metres
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 1 % **Aspect:** 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Eutrophic Mesonatric Brown Sodosol **Principal Profile Form:** Dy2.13
ASC Confidence: **Great Soil Group:** N/A
 All necessary analytical data are available.

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

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; Field pH 6
 (Raupach); Abrupt, Wavy change to -
 B21 0.1 - 0.3 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
 fabric; Moderately moist; Field pH 6.5 (Raupach); Clear change to -
 B22 0.3 - 0.5 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric;
 Dry; Field pH 8 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.1	5.2B 6.4H	9B	2.13H	0.93	0.2	0.34	0.03J		3.6D	
0 - 0.1	5.2B 6.4H	9B	2.13H	0.93	0.2	0.34	0.03J		3.6D	
0 - 0.1	5.2B 6.4H	9B	2.13H	0.93	0.2	0.34	0.03J		3.6D	
0.1 - 0.3	5.8B 6.9H	26B	2.35A	5.52	0.13	2.69			10.69D	

0.1 - 0.3	5.8B	26B	2.35A	5.52	0.13	2.69		10.69D
	6.9H							
0.1 - 0.3	5.8B	26B	2.35A	5.52	0.13	2.69		10.69D
	6.9H							

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 - 0.1		1.22D						90I 4.5
5.5								
0 - 0.1		1.22D						90I 4.5
5.5								
0 - 0.1		1.22D						90I 4.5
5.5								
0.1 - 0.3		0.32D						42I 3
55								
0.1 - 0.3		0.32D						42I 3
55								
0.1 - 0.3		0.32D						42I 3
55								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no 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
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	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
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)

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