

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0220 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 12/07/95 **Elevation:** 340 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6253685 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 623720 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: Crest **Relief:** 5 metres
Elem. Type: Summit surface **Slope Category:** No Data
Slope: 0 % **Aspect:** 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Hypocalcic Subnatric 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, rounded, ; No surface coarse fragments

Profile Morphology

A1 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moist;
 Weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments;
 Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
 B21 0.08 - 0.3 m Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
 fabric; Moderately moist; Firm consistence; Field pH 8 (Raupach); Clear change to -
 B22 0.3 - 0.6 m Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR58, 2-10% , 0-5mm, Distinct; ,
 10YR72, 0-2% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric;
 Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Topsoil mixed in with this layer.

Observation Notes

Site Notes

PSA of layers 1 & 2 suggests profile doesn't have a clear textural B, but samples from L2 had topsoil mixed with it (see notes), using field textures to guide 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										
0 - 0.08	5.6B	12B	4.43A	4.66	0.63	0.5			10.22D	
	6.5H									
0 - 0.08	5.6B	12B	4.43A	4.66	0.63	0.5			10.22D	

0 - 0.08	6.5H 5.6B	12B	4.43A	4.66	0.63	0.5	10.22D
0 - 0.1	6.5H 5.9B						
0.08 - 0.28	6.7B	9B	3.62A	5.87	0.25	0.79	10.53D
0.08 - 0.28	7.8H 6.7B	9B	3.62A	5.87	0.25	0.79	10.53D
0.08 - 0.28	7.8H 6.7B	9B	3.62A	5.87	0.25	0.79	10.53D
0.15 - 0.25	7.8H 6.5B						
0.4 - 0.5	7.6B						

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 - 0.08 24		2.36D						69I 7
0 - 0.08 24		2.36D						69I 7
0 - 0.08 24		2.36D						69I 7
0 - 0.1								
0.08 - 0.28 32.5		0.5D						63.5I 4
0.08 - 0.28 32.5		0.5D						63.5I 4
0.08 - 0.28 32.5		0.5D						63.5I 4
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
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15J_BASES	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15L1_a Sum of Cations	Sum of Bases
15N1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_b	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
4_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4B1	Electrical conductivity or soluble salts - Not recorded
6A1_UC	pH of soil - Not recorded
	pH of 1:5 soil/0.01M calcium chloride extract - direct
	Organic carbon (%) - Uncorrected Walkley and Black method

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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