

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0244 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 17/07/95 **Elevation:** 310 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6252180 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 603550 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: Upper-slope **Relief:** 10 metres
Elem. Type: Hillcrest **Slope Category:** No Data
Slope: 2 % **Aspect:** 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Eutrophic Mottled-Mesonatric Grey Sodosol **Principal Profile Form:** Dy3.11
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 2-10%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); ; Sand; Massive grade of structure; Moist; Field pH 5.5
 (Raupach); Abrupt,
 Wavy change to -
 B21 0.1 - 0.4 m Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Sandy
 medium clay;
 Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach);
 Clear change to -
 B22 0.4 - 0.6 m Light brownish grey (2.5Y6/2-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Faint; Sandy
 medium clay;
 Moderate grade of structure; Rough-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

A1 Thin light grey sandy A2 (1-2cm) sometimes present.
 B22 Very slight dispersion.

Observation Notes

Site Notes

"Hardsetting grey clay". Base Status of upper B2 is 15.7 (just Eutrophic)

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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	4.7B 5.8H	8B	2.1H	1.09	0.33	0.33	0.13J		3.85D	
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0.1 - 0.3	4.9B 6.2H	10B	1.36H	3.18	0.07	1.19	0.1J	5.8D
0.1 - 0.3	4.9B 6.2H	10B	1.36H	3.18	0.07	1.19	0.1J	5.8D
0.1 - 0.3	4.9B 6.2H	10B	1.36H	3.18	0.07	1.19	0.1J	5.8D

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 8		1.44D						87.5I 4.5
0 - 0.1 8		1.44D						87.5I 4.5
0 - 0.1 8		1.44D						87.5I 4.5
0.1 - 0.3 37		0.34D						60.5I 2.5
0.1 - 0.3 37		0.34D						60.5I 2.5
0.1 - 0.3 37		0.34D						60.5I 2.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMUR	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded