

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0468 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 19/09/95
Map Ref.:
Northing/Long.: 6281180 AMG zone: 50
Easting/Lat.: 627380 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope
Elem. Type: Footslope
Slope: 1 %
Relief: 15 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Subnatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
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; 0-2%, , subangular, Gneiss

Profile Morphology

A1 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; Dry;
 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5
 (Raupach); Abrupt,
 Wavy change to -
 B21 0.1 - 0.3 m Pale brown (10YR6/3-Moist); , 0-0% ; Coarse sandy medium clay; Moderate grade of structure; Sandy
 (grains prominent) fabric; Dry; Very firm consistence; Field pH 8 (Raupach); Gradual change to -
 B22 0.3 - 0.6 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped
 fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B22 Kaolinitic clay.

Observation Notes

Site Notes

All penetrometer readings > 6 kg/cm² - "hardsetting grey clay".

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.7B 5.7H	5B	2.74H	0.91	0.24	0.07	0.13J		3.96D	
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0.1 - 0.3	7B 8H	23B	4.11A	8.27	0.99	1.47		14.84D
0.1 - 0.3	7B 8H	23B	4.11A	8.27	0.99	1.47		14.84D
0.1 - 0.3	7B 8H	23B	4.11A	8.27	0.99	1.47		14.84D

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 6		1.97D						90I 4
0 - 0.1 6		1.97D						90I 4
0 - 0.1 6		1.97D						90I 4
0.1 - 0.3 42.5	<2C	0.36D						54.5I 3
0.1 - 0.3 42.5	<2C	0.36D						54.5I 3
0.1 - 0.3 42.5	<2C	0.36D						54.5I 3

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 for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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 Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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 (CaCO ₃) - 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

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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