

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0264 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 20/07/95
Map Ref.:
Northing/Long.: 6247540 AMG zone: 50
Easting/Lat.: 632800 Datum: AGD84
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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: Upper-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Calcic Subnatric Brown Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db1.13
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 50-90%, medium gravelly, 6-20mm, subangular, Quartz; 10-20%, , 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;
 Moderately moist; Field pH 6 (Raupach); Abrupt change to -
B21 0.1 - 0.4 m Brown (7.5YR4/4-Moist); Mechanical, 10YR32, 10-20% , 15-30mm, Distinct; Coarse sandy medium clay;
 Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous;
 Field pH 8.5 (Raupach); Gradual change to -
B22k 0.4 - 0.6 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Coarse sandy medium clay; Moderate grade of structure;
 Rough-ped fabric; Dry; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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	5.4B 6.4H	12B	4.68H	0.98	0.21	0.39	0.03J		6.26D	
0 - 0.1	5.4B 6.4H	12B	4.68H	0.98	0.21	0.39	0.03J		6.26D	
0 - 0.1	5.4B	12B	4.68H	0.98	0.21	0.39	0.03J		6.26D	

0.1 - 0.3	6.4H 7.1B 8H	20B	7.19A	7.03	0.46	1.94	16.62D
0.1 - 0.3	7.1B 8H	20B	7.19A	7.03	0.46	1.94	16.62D
0.1 - 0.3	7.1B 8H	20B	7.19A	7.03	0.46	1.94	16.62D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1 5		1.88D							88I		7
0 - 0.1 5		1.88D							88I		7
0 - 0.1 5		1.88D							88I		7
0.1 - 0.3 33.5	<2C	0.31D							58I		8.5
0.1 - 0.3 33.5	<2C	0.31D							58I		8.5
0.1 - 0.3 33.5	<2C	0.31D							58I		8.5

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 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
15E1_AL	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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
19B_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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
	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