

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0283 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 25/07/95
Map Ref.:
Northing/Long.: 6288590 AMG zone: 50
Easting/Lat.: 608900 Datum: AGD84
Locality:
Elevation: 330 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Mesonatric Yellow Sodosol
Mapping Unit: N/A
Principal Profile Form: Dy2.13
ASC Confidence: No analytical data are available but confidence is fair.
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; No surface coarse fragments

Profile Morphology

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular
 blocky; Wet; Field pH 6 (Raupach); Abrupt, Wavy change to -
 B21 0.08 - 0.5 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
 Rough-ped fabric; Moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);
 Abrupt change to -
 B22k 0.5 - 0.7 m Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure;
 Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subrounded, Calcrete, coarse fragments; 2-10%, coarse gravelly, 20-60mm, Calcrete, coarse fragments; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 Large earthworm.

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 - 0.08	5.6B	8B	2.14A	1.87	0.4	0.27			4.68D	
	6.7H									
0 - 0.08	5.6B	8B	2.14A	1.87	0.4	0.27			4.68D	
	6.7H									

0 - 0.08	5.6B 6.7H	8B	2.14A	1.87	0.4	0.27			4.68D	
0.08 - 0.28	7.1B 8.5H	16B	2.88E	5.88	0.12	3.05		12B	11.93D	25.42
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0.08 - 0.28	7.1B 8.5H	16B	2.88E	5.88	0.12	3.05		12B	11.93D	25.42

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.08 10		1.24D								83.5I		6.5
0 - 0.08 10		1.24D								83.5I		6.5
0 - 0.08 10		1.24D								83.5I		6.5
0.08 - 0.28 33.5	<2C	0.32D								60.5I		6
0.08 - 0.28 33.5	<2C	0.32D								60.5I		6
0.08 - 0.28 33.5	<2C	0.32D								60.5I		6

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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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

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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