

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0160 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 19/06/95
Map Ref.:
Northing/Long.: 6263400 AMG zone: 50
Easting/Lat.: 606080 Datum: AGD84
Locality:
Elevation: 310 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: Hillslope
Slope: 2 %
Relief: 5 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Recently cultivated, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic Mesonatric Brown 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 Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

A1p 0 - 0.05 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moderately moist; Firm consistence; Field pH 6 (Raupach); Abrupt change to -
 B21 0.05 - 0.3 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
 B22 0.3 - 0.4 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Dry; Strong consistence; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

A1p Very slight dispersion.
 B21 Some mixing of layers 1 and 2 between 5 and 15cm.

Observation Notes

Site Notes

Site in cereal crop - probably wheat. "Hardsetting grey clay".

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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 - 0.05	5.8B 6.6H	16B	4.14A	3.33	0.45	0.57			8.49D	

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0 - 0.1	5.8B										
0 - 0.1	5.8B										
0.05 - 0.25	5.8B 7.4B 8.3H	31B	1.92E	5.17	0.37	2.08		12B	9.54D	17.33	
0.05 - 0.25	7.4B 8.3H	31B	1.92E	5.17	0.37	2.08		12B	9.54D	17.33	
0.15 - 0.25	7.6B										
0.3 - 0.4	7.7B										

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 - 0.05 20.5										76I		3.5
0 - 0.05 20.5										76I		3.5
0 - 0.1 0 - 0.1												
0.05 - 0.25 53	<2C									45I		2
0.05 - 0.25 53	<2C									45I		2
0.15 - 0.25 0.3 - 0.4												

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
	Sum of Bases
	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	and measured clay

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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 (CaCO3) - 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
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