

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0459 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 18/09/95
Map Ref.:
Northing/Long.: 6278130 AMG zone: 50
Easting/Lat.: 638160 Datum: AGD84
Locality:
Elevation: 295 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: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 1 %
Pattern Type: Rises
Relief: 10 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic Mesonatric 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 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile Morphology

Ap 0 - 0.04 m Dark grey (10YR4/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Field pH 7
 (Raupach); Abrupt, Wavy change to -
 B21 0.04 - 0.4 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy 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 0.4 - 0.6 m Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR4/6, 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Capeweed/medic pasture.

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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 - 0.04	6.3B 7.3H	16B	3.85A	3.13	0.92	1.05			8.95D	
0 - 0.04	6.3B 7.3H	16B	3.85A	3.13	0.92	1.05			8.95D	
0 - 0.04	6.3B	16B	3.85A	3.13	0.92	1.05			8.95D	

0.04 - 0.25	7.3H 8B 9.2H	30B	4.06E	5.7	1	2.82		15B	13.58D	18.80
0.04 - 0.25	8B 9.2H	30B	4.06E	5.7	1	2.82		15B	13.58D	18.80
0.04 - 0.25	8B 9.2H	30B	4.06E	5.7	1	2.82		15B	13.58D	18.80

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%	
0 - 0.04 14		1.3D								80I		6
0 - 0.04 14		1.3D								80I		6
0 - 0.04 14		1.3D								80I		6
0.04 - 0.25 48	<2C	0.25D								48.5I		3.5
0.04 - 0.25 48	<2C	0.25D								48.5I		3.5
0.04 - 0.25 48	<2C	0.25D								48.5I		3.5

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 (Ca2+,Mg2+,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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca2+,Mg2+,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_BA	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
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
19B_NR	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
	Calcium Carbonate (CaCO3) - Not recorded
	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