

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0545 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/07/96	Elevation: 300 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6296820 AMG zone: 50	Runoff: No Data
Easting/Lat.: 602940 Datum: AGD84	Drainage: Imperfectly drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Landform

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 2 metres
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypocalcic Hypernatric Brown Sodosol	Principal Profile Form: Dy5.23
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

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

Ap	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose
		consistence; Field pH 6 (Raupach); Sharp, Smooth change to -
A2e	0.08 - 0.12 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose
		consistence; Field pH 7 (Raupach); Abrupt, Irregular change to -
B1	0.12 - 0.2 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Strong grade of structure,
		Columnar; Moist; Weak
		consistence; Field pH 7 (Raupach); Clear change to -
B21	0.2 - 0.4 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR58, 2-10% , 0-5mm, Faint; Sandy
		medium clay;
		Moderate grade of structure; Moderately moist; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft
		segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
B22	0.4 - 0.5 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR58, 2-10% , 5-15mm, Distinct; Sandy light
		medium clay;
		Moderate grade of structure; Moderately moist; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft
		segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A2e May not always exist with shallower clay.

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
				Mg		Acidity			

m	dS/m		Cmol (+)/kg						%	
0 - 0.08	4.6B	7B	1.82H	0.6	0.26	0.14	0.15J		2.82D	
0 - 0.08	4.6B	7B	1.82H	0.6	0.26	0.14	0.15J		2.82D	
	5.6H									
0.2 - 0.4	8.3B	49B	2.24E	5.16	0.38	5.42		14B	13.2D	38.71
0.2 - 0.4	8.3B	49B	2.24E	5.16	0.38	5.42		14B	13.2D	38.71
	9.3H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.08		1.22D						90.5I	4.5
5									
0 - 0.08		1.22D						90.5I	4.5
5									
0.2 - 0.4	<2C	0.16D						63I	6
31									
0.2 - 0.4	<2C	0.16D						63I	6
31									

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
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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 (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
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