

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0457 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 18/09/95 **Elevation:** 300 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6278580 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 634330 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: Gently undulating plains <9m 1-3% **Pattern Type:** Alluvial plain

Morph. Type: Flat **Relief:** 10 metres
Elem. Type: Plain **Slope Category:** No Data
Slope: 0 % **Aspect:** No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Calcic Mesonatric Grey Sodosol **Principal Profile Form:** Dg2.13
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 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; Field pH 6
 (Raupach); Abrupt, Wavy change to -
 B21k 0.1 - 0.3 m Very pale brown (10YR7/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Calcrete, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 8
 (Raupach); Clear change to -
 B22 0.3 - 0.6 m Light grey (2.5Y7/2-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Acidity				%
					Na				
					Cmol (+)/kg				
0 - 0.1	5.2B	5B	1.62A	1.25	0.24	0.22		3.33D	
	6.6H								
0 - 0.1	5.2B	5B	1.62A	1.25	0.24	0.22		3.33D	

0 - 0.1	6.6H 5.2B	5B	1.62A	1.25	0.24	0.22			3.33D	
0.1 - 0.3	6.6H 8B	37B	2.7E	6.3	0.71	3.37		14B	13.08D	24.07
0.1 - 0.3	9H 8B	37B	2.7E	6.3	0.71	3.37		14B	13.08D	24.07
0.1 - 0.3	9H 8B	37B	2.7E	6.3	0.71	3.37		14B	13.08D	24.07
	9H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	% Clay	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 7		0.87D						89.5l			3.5
0 - 0.1 7		0.87D						89.5l			3.5
0 - 0.1 7		0.87D						89.5l			3.5
0.1 - 0.3 38	<2C	0.29D						58.5l			3.5
0.1 - 0.3 38	<2C	0.29D						58.5l			3.5
0.1 - 0.3 38	<2C	0.29D						58.5l			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	soluble salts
15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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_BA	Sum of Bases
15L1_a 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_N	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_N	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