Project Name: **Nyabing Kukerin land resourcs survey**
Project Code: **NYA** **Site ID:** **0168** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 20/06/95
Map Ref.:
Northing/Long.: 6262980 AMG zone: 50
Easting/Lat.: 615840 Datum: AGD84
Locality:
Elevation: 320 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: No Data
Morph. Type: Flat
Elem. Type: Valley flat
Slope: 1 %
Pattern Type: Rises
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Recently cultivated, Hardsetting

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

Soil Classification

Australian Soil Classification:
Hypocalcic Subnatric Grey Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy4.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moderately moist; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B21 0.08 - 0.15 m Brown (10YR5/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 7 (Raupach); Clear change to -

B22 0.15 - 0.4 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach); Diffuse change to -

B23 0.4 - 0.7 m Light grey (2.5Y7/2-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Abrupt change to -

B24k 0.7 - 0.75 m Light grey (2.5Y7/2-Moist); ; Light clay; Moderate grade of structure; Rough-ped fabric; Dry; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9 (Raupach);

Morphological Notes

A1 Cloddy - very slight dispersion.
B24k Stopped by large carbonate nodule - slight dispersion.

Observation Notes

Site Notes

Site near Mindarabin Dam - possibly had gypsum applied this season - "hardsetting grey clay". ESP of layer 1 is 5.4 (after gypsum)

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.5B 6.4H	11B	3.98H	3.55	0.21	0.44	<0.02J		8.18D	
0 - 0.08	5.5B 6.4H	11B	3.98H	3.55	0.21	0.44	<0.02J		8.18D	
0 - 0.1	5.7B									
0.15 - 0.25	6.6B									
0.4 - 0.5	8B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08									79I		5.5
15.5											
0 - 0.08									79I		5.5
15.5											
0 - 0.1											
0.15 - 0.25											
0.4 - 0.5											

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
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_MN	Exchangeable bases (Mn2+) 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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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