

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0223 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 13/07/95
Map Ref.:
Northing/Long.: 6251980 AMG zone: 50
Easting/Lat.: 626285 Datum: AGD84
Locality:
Elevation: 335 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well 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: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Surface flake, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Epiphypersodic Pedal Hypercalcaric Calcarosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dr2.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, ; 2-10%, , subangular, Dolerite

Profile Morphology

Ap 0 - 0.05 m Reddish brown (5YR4/4-Moist); , 0-0% ; Clay loam; Massive grade of structure; Moist;
 Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Abrupt change to -
 B21 0.05 - 0.2 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure;
 Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual
 change to -
 B22k 0.2 - 0.55 m Brown (7.5YR4/4-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure;
 Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil
 matrix is Moderately calcareous; Field pH 9.5 (Raupach); Clear change to -
 B23 0.55 - 0.7 m Yellowish red (5YR4/6-Moist); , 0-0% ; Light medium clay; Very few (0 - 2 %), Calcareous,
 Fine (0 - 2 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Ap Sticky.

Observation Notes

Site Notes

Site on a dolerite dyke (near main house/workshop) - similar to site NYA0219 except less carbonate in surface layers.

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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	7.8B	25B	18.27E	6.99	1.39	0.51		27B	27.16D	1.89
	8.4H									
0 - 0.05	7.8B	25B	18.27E	6.99	1.39	0.51		27B	27.16D	1.89
	8.4H									
0 - 0.1	7.7B									
	7.7B									
0 - 0.1	7.7B									
	7.7B									
0.05 - 0.2	8B	27B	14.52E	9.01	0.59	1.72		24B	25.84D	7.17
	8.7H									
0.05 - 0.2	8B	27B	14.52E	9.01	0.59	1.72		24B	25.84D	7.17
	8.7H									
0.1 - 0.2	7.9B									
0.4 - 0.5	8.6B									

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 - 0.05	<2C	1.55D						58.5I	7
34.5									
0 - 0.05	<2C	1.55D						58.5I	7
34.5									
0 - 0.1									
0 - 0.1									
0.05 - 0.2	<2C	1.11D						56.5I	5.5
38									
0.05 - 0.2	<2C	1.11D						56.5I	5.5
38									
0.1 - 0.2									
0.4 - 0.5									

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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	
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

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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