

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0379 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 16/08/95 **Elevation:** 290 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6238115 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 613485 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Upper-slope **Relief:** 5 metres
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 1 % **Aspect:** No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Epibasic Pedal Calcic Calcarosol **Principal Profile Form:** Dr3.13
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; 2-10%, , subangular, Gabbro

Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular
		blocky; Dry; Firm consistence; Field pH 7.5 (Raupach); Abrupt, Wavy change to -
B21	0.05 - 0.5 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric;
		Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual
		change to -
B22k	0.5 - 0.6 m	Strong brown (7.5YR4/6-Moist); Mottles, 10YR54, 10-20% , 15-30mm, Distinct; Medium clay; Weak
		grade of structure; Rough-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, Calcrete,
		coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix
		is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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	6.4B 7.1H	24B	5.93A	7.08	1.18	1.2			15.39D	
0 - 0.05	6.4B 7.1H	24B	5.93A	7.08	1.18	1.2			15.39D	

0.05 - 0.25	7.6B 8.8H	59B	4.4E	8.7	0.56	3.19		18B	16.85D	17.72
0.05 - 0.25	7.6B 8.8H	59B	4.4E	8.7	0.56	3.19		18B	16.85D	17.72

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.05 25		1.98D								68I		7
0 - 0.05 25		1.98D								68I		7
0.05 - 0.25 42	<2C	0.37D								53.5I		4.5
0.05 - 0.25 42	<2C	0.37D								53.5I		4.5

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_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 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 (CaCO ₃) - 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

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P10_NR_S Sand (%) - Not recorded
P10_NR_Z Silt (%) - Not recorded