

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0328 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 02/08/95  
**Map Ref.:**  
**Northing/Long.:** 6247860 AMG zone: 50  
**Easting/Lat.:** 606280 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:** 2 %  
**Relief:** 15 metres  
**Slope Category:** No Data  
**Aspect:** 315 degrees

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** Eutrophic Hypernatric Brown Sodosol  
**ASC Confidence:** All necessary analytical data are available.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy2.42  
**Great Soil Group:** N/A

#### Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation

**Surface Coarse Fragments** 10-20%, medium gravelly, 6-20mm, subangular, Gneiss; 0-2%, , subangular, Gneiss

#### Profile Morphology

**A1** 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -  
**A2e** 0.1 - 0.12 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moist; Field pH 7 (Raupach); Abrupt, Wavy change to -  
**B2** 0.12 - 0.3 m Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 7 (Raupach);

#### Morphological Notes

**A1** Medium to coarse sand.  
**B2** Stopped by large gneiss stone.

#### Observation Notes

#### Site Notes

"Hardsetting grey clay".

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.8B 5.8H	10B	1.94H	0.72	0.3	0.2	0.06J		3.16D	
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0 - 0.1	4.8B 5.8H	10B	1.94H	0.72	0.3	0.2	0.06J	3.16D
0.12 - 0.3	6.5B 7.2H	39B	4.18A	7.71	0.2	4.19		16.28D
0.12 - 0.3	6.5B 7.2H	39B	4.18A	7.71	0.2	4.19		16.28D
0.12 - 0.3	6.5B 7.2H	39B	4.18A	7.71	0.2	4.19		16.28D

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.1 3.5		1.22D						91I 5.5
0 - 0.1 3.5		1.22D						91I 5.5
0 - 0.1 3.5		1.22D						91I 5.5
0.12 - 0.3 41.5		0.63D						50I 8.5
0.12 - 0.3 41.5		0.63D						50I 8.5
0.12 - 0.3 41.5		0.63D						50I 8.5

#### **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
15A1_CA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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 Sum of Cations	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
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)

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<b>Agency Name:</b>	<b>Agriculture Western Australia</b>	<b>Observation</b>	<b>1</b>
P10_NR_C	Clay (%) - Not recorded		
P10_NR_S	Sand (%) - Not recorded		
P10_NR_Z	Silt (%) - Not recorded		