

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0370 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy **Locality:**  
**Date Desc.:** 08/08/95 **Elevation:** 270 metres  
**Map Ref.:** **Rainfall:** No Data  
**Northing/Long.:** 6239775 AMG zone: 50 **Runoff:** No Data  
**Easting/Lat.:** 603450 Datum: AGD84 **Drainage:** Poorly 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:** Crest **Relief:** 5 metres  
**Elem. Type:** Summit surface **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  
 Sodic Hypocalcic Grey Dermosol **Principal Profile Form:** Dg2.13  
**ASC Confidence:** **Great Soil Group:** N/A  
 Analytical data are incomplete but reasonable confidence.

**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**

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Clay loam, sandy; Massive grade of structure; Moderately moist; Weak
		consistence; Field pH 7.5 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.4 m	Pale yellow (2.5Y7/3-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Distinct; Sandy light medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is
		Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
B22	0.4 - 0.7 m	Light grey (2.5Y7/2-Moist); , 5YR56, 0-2% , 15-30mm, Distinct; Sandy light medium clay;
Moderate		grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Soil matrix is
		Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
B3	0.7 - 0.9 m	Light grey (2.5Y7/2-Moist); Mottles, 5YR56, 20-50% , 15-30mm, Distinct; Sandy medium clay; Moderate
		grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly
		calcareous; Field pH 9 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

"Hardsetting grey clay". Field textures, supported by PSA, does not support clear textural B horizon as originally classified in the field.

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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				%
					Cmol (+)/kg				

0 - 0.1	6.3B 7.2H	10B	4.64A	4.58	0.36	0.53			10.11D
0 - 0.1	6.3B 7.2H	10B	4.64A	4.58	0.36	0.53			10.11D
0 - 0.1	6.3B 7.2H	10B	4.64A	4.58	0.36	0.53			10.11D
0.1 - 0.3	7.8B 8.9H	13B	3.52E	8.03	0.34	1.81		16B	13.7D 11.31
0.1 - 0.3	7.8B 8.9H	13B	3.52E	8.03	0.34	1.81		16B	13.7D 11.31
0.1 - 0.3	7.8B 8.9H	13B	3.52E	8.03	0.34	1.81		16B	13.7D 11.31

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0 - 0.1 17		1.52D							78.5l		4.5
0 - 0.1 17		1.52D							78.5l		4.5
0 - 0.1 17		1.52D							78.5l		4.5
0.1 - 0.3 32.5	<2C	0.11D							64.5l		3
0.1 - 0.3 32.5	<2C	0.11D							64.5l		3
0.1 - 0.3 32.5	<2C	0.11D							64.5l		3

#### Laboratory Analyses Completed for this profile

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 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
15C1_CA pretreatment for	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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_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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
3_NR	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