

**Project Name:** Nyabing Kukerin land resources survey  
**Project Code:** NYA **Site ID:** 0476 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy **Locality:**  
**Date Desc.:** 19/09/95 **Elevation:** 340 metres  
**Map Ref.:** **Rainfall:** No Data  
**Northing/Long.:** 6285480 AMG zone: 50 **Runoff:** No Data  
**Easting/Lat.:** 622920 Datum: AGD84 **Drainage:** Moderately well 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:** Mid-slope **Relief:** 15 metres  
**Elem. Type:** Hillslope **Slope Category:** No Data  
**Slope:** 2 % **Aspect:** 45 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** **Mapping Unit:** N/A  
 Eutrophic Hypernatric Yellow Sodosol **Principal Profile Form:** Dy2.13  
**ASC Confidence:** **Great Soil Group:** N/A  
 All necessary analytical data are available.

**Site Disturbance** Cultivation. Rainfed

#### Vegetation

**Surface Coarse Fragments** 10-20%, medium gravelly, 6-20mm, subangular, Quartz; No surface coarse fragments

#### Profile Morphology

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure;  
 Dry; Field pH 6 (Raupach); Abrupt, Wavy change to -  
 B2t 0.1 - 0.3 m Light brown (7.5YR6/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure;  
 Rough-ped fabric; Dry; Field pH 7.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site in remnant mallee along fence line.

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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 - 0.1	5.8B 6.3H	60B	3.3H	4.72	0.18	0.55	<0.02J		8.75D	
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0.1 - 0.3	6.6B 7.3H	68B	2.85A	7.61	0.14	2.1			12.7D	
0.1 - 0.3	6.6B 7.3H	68B	2.85A	7.61	0.14	2.1			12.7D	
0.1 - 0.3	6.6B 7.3H	68B	2.85A	7.61	0.14	2.1			12.7D	

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 20.5		1.37D							75.5l		4
0 - 0.1 20.5		1.37D							75.5l		4
0 - 0.1 20.5		1.37D							75.5l		4
0.1 - 0.3 41.5		0.88D							54.5l		4
0.1 - 0.3 41.5		0.88D							54.5l		4
0.1 - 0.3 41.5		0.88D							54.5l		4

#### **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
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble 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
15A1_NA for soluble	salts
15E1_AL	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
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	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_MN	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases (Mn <sup>2+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	Organic carbon (%) - Uncorrected Walkley and Black method
	> 2mm particle size analysis, (method not recorded)

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