**Project Name:** Nyabing Kukerin land resourcs survey

Observation ID: 1 **Project Code:** NYA Site ID: 0374

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality: Date Desc.:

Map Ref.:

10/08/95 Elevation: 290 metres Rainfall: No Data

Northing/Long.: 6237690 AMG zone: 50 Runoff: No Data 608020 Datum: AGD84 Drainage: Poorly drained Easting/Lat.:

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data No Data

**Landform** 

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type: Open depression (vale) Relief: 5 metres Slope Category: No Data Elem. Type: Drainage depression Slope: 1 % Aspect: 45 degrees

Surface Soil Condition Surface crust, Hardsetting

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

**Soil Classification** 

**Australian Soil Classification:** Mapping Unit: N/A **Principal Profile Form:** Dy2.13 Calcic Hypernatric Brown Sodosol **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, angular, Quartz; 0-2%, , subangular,

Gabbro

B22

**Profile Morphology** 

0.3 - 0.4 m

Dark grey (10YR4/1-Moist); , 0-0%; Coarse sandy clay loam; Massive grade of structure; Α1 0 - 0.08 m Moderately

moist; Field pH 6 (Raupach); Abrupt, Wavy change to -

Brown (7.5YR4/4-Moist); Mottles, 2.5YR46, 2-10%, 0-5mm, Faint; Sandy medium clay; B21 0.08 - 0.3 m

Moderate grade

of structure; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

clay; Moderate grade of structure; Moderately moist; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse

fragments; Soil

matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -

B23k 0.4 - 0.55 m Brown (7.5YR5/4-Moist); Mottles, 2.5YR46, 2-10%, 0-5mm, Faint; , 10YR64, 2-10%, 15-30mm.

Distinct; Sandy light medium clay; Moderate grade of structure; Moderately moist; 2-10%,

medium

gravelly, 6-20mm, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm),

Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Gradual

change to -

Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR54, 20-50%, 15-30mm, Faint; Medium B31k 0.55 - 0.7 m clay; Moderate

grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, Calcrete, coarse

Brown (7.5YR5/4-Moist); Mottles, 2.5YR46, 2-10%, 0-5mm, Faint; Sandy light medium

fragments;

Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately

calcareous; Field pH 9.5 (Raupach); Clear change to -

B32k 0.7 - 0.9 m Light yellowish brown (10YR6/4-Moist); Mottles, 5YR46, 10-20%, 5-15mm, Distinct; Light medium clay;

Moderate grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm,

subrounded.

Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;

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# **Morphological Notes**

### **Observation Notes**

#### Site Notes

"Hardsetting grey clay" - site is 20 metres downslope from red soil on a dolerite dyke.

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# **Laboratory Test Results:**

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	E) Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Oa .	III g	K	Cmol (+)/				%
0 - 0.08	5.5B 6.7H	13B	2.89A	4.22	0.32	1.2			8.63D	
0 - 0.08	5.5B 6.7H	13B	2.89A	4.22	0.32	1.2			8.63D	
0 - 0.08	5.5B 6.7H	13B	2.89A	4.22	0.32	1.2			8.63D	
0.08 - 0.28	7.8B 9.1H	27B	3.31E	8.76	0.48	4.71		16B	17.26D	29.44
0.08 - 0.28	7.8B 9.1H	27B	3.31E	8.76	0.48	4.71		16B	17.26D	29.44
0.08 - 0.28	7.8B 9.1H	27B	3.31E	8.76	0.48	4.71		16B	17.26D	29.44

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV		Size Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%
0 - 0.08 15		1.09D							78.5I	6.5
0 - 0.08 15		1.09D							78.5I	6.5
0 - 0.08 15		1.09D							78.51	6.5
0.08 - 0.28 36.5	<2C	0.2D							56.51	7
0.08 - 0.28 36.5	<2C	0.2D							56.51	7
0.08 - 0.28 36.5	<2C	0.2D							56.51	7

# **Laboratory Analyses Completed for this profile**

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
1	soluble salts

15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for 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 15L1_a Sum of Cations	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a 15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC

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pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method

4\_NR 4B1 6A1\_UC P10\_gt2m P10\_NR\_C P10\_NR\_S P10\_NR\_Z > 2mm particle size analysis, (method not recorded)
Clay (%) - Not recorded
Sand (%) - Not recorded
Silt (%) - Not recorded