

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0392 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 17/08/95
Map Ref.:
Northing/Long.: 6239190 AMG zone: 50
Easting/Lat.: 626645 Datum: AGD84
Locality:
Elevation: 260 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: Upper-slope
Elem. Type: Hillcrest
Slope: 2 %
Relief: 5 metres
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition Surface flake, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic Subnatric Brown Sodosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, ; 10-20%, , angular, Quartz

Profile Morphology

A1 0 - 0.12 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure;
 Moderately moist; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 2-10%, medium
 gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.12 - 0.35 m Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
 fabric; Moderately moist; Field pH 9 (Raupach); Clear change to -

B22 0.35 - 0.45 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
 Rough-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1

Observation Notes

Site Notes

Faba beans on this site - "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 - 0.12	5.6B 6.1H	37B	7.16H	3.35	0.38	0.24	0.02J		11.13D	
0 - 0.12	5.6B 6.1H	37B	7.16H	3.35	0.38	0.24	0.02J		11.13D	

0 - 0.12	5.6B 6.1H	37B	7.16H	3.35	0.38	0.24	0.02J	11.13D		
0.12 - 0.32	7.4B 8.4H	14B	4.16E	4.98	0.14	1.29		13B	10.57D	9.92
0.12 - 0.32	7.4B 8.4H	14B	4.16E	4.98	0.14	1.29		13B	10.57D	9.92
0.12 - 0.32	7.4B 8.4H	14B	4.16E	4.98	0.14	1.29		13B	10.57D	9.92

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 - 0.12 23.5		1.58D								70.5I		6
0 - 0.12 23.5		1.58D								70.5I		6
0 - 0.12 23.5		1.58D								70.5I		6
0.12 - 0.32 50	<2C	0.27D								46.5I		3.5
0.12 - 0.32 50	<2C	0.27D								46.5I		3.5
0.12 - 0.32 50	<2C	0.27D								46.5I		3.5

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
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	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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 ²⁺) 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	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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

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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