

Project Name: Knox Creek Plain survey (Kununurra)
Project Code: KNX **Site ID:** 0131 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Noel Schoknecht	Locality:	
Date Desc.:	11/06/94	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	8279062 AMG zone: 52	Runoff:	No Data
Easting/Lat.:	498421 Datum: AGD84	Drainage:	No Data

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse

Profile

A11	0 - 0.08 m	Dark greyish brown (2.5Y4/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Granular;
		Rough-ped fabric; Dry; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm),
		Concretions; Field pH 7.3 (pH meter); Clear change to -
A12	0.08 - 0.25 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular
		blocky; Rough-ped fabric; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm),
		Concretions; Field pH 7.8 (pH meter); Gradual change to -
B2	0.25 - 1.13 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 100-200 mm,
		Subangular blocky; Smooth-ped fabric; Moderately moist; Rigid consistence; Very few (0 - 2 %),
		Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 8.9 (pH meter); Clear change to -
BC	1.13 - 1.56 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; Moist; Firm consistence; Very few (0 - 2 %),
		Manganiferous, Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm),
		Concretions; Field pH 8 (pH meter); Gradual change to -
C	1.56 - 1.85 m	Strong brown (7.5YR5/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky;
		Smooth-ped fabric; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm),
		Concretions; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.2 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Adj. to k36. 5photos. Weakly gilgaied with common surface cracks and <5mm thick crust. "C"horizon is of different parentage. Slickensides in layer3. Main roots to 0.75m fine to 1.56m and prominent cracks to .5m, fine to 1m. PEDAL GREY VERTO

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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 - 0.08	6.2B 6.9H	11B	14.88A	12.91	0.74	0.16			28.69D	
0.08 - 0.25	7B 7.9H	5B	17.19A	12.33	0.26	0.36			30.14D	
0.25 - 0.7	7.7B 8.9H	9B	15.21E	11.86	0.23	1.63		27B	28.93D	6.04
0.7 - 1.13	8.1B 9.1H	32B	10.54E	12.47	0.23	4.14		27B	27.38D	15.33
1.13 - 1.56	8B 8.5H	130B	10.61E	12.92	0.24	5.51		28B	29.28D	19.68
1.56 - 1.85	8B 8.8H	58B	8.41E	10.26	0.24	4.8		24B	23.71D	20.00

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.08 40.3		0.76D		65B	0.054E					11.6
0.08 - 0.25 42.6		0.29D		42B	0.023E					11.3
0.25 - 0.7 42.8	<2C	0.2D		39B	0.019E					10.7
0.7 - 1.13 43.7	2C	0.24D		39B	0.019E					11.4
1.13 - 1.56 48	<2C	0.11D		40B	0.012E					10.9
1.56 - 1.85 46	<2C	0.06D		49B	0.01E					8.4

Laboratory Analyses Completed for this profile

12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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 (Ca2+,Mg2+,Na+,K+) - 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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA	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
	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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 (CaCO3) - Not recorded

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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
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)