Project Name: Project Code: Agency Name:	Knox Creek Plain survey (H KNX Site ID: Agriculture Western Austra	0138 Observa	ation ID: 1						
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	n Noel Schoknecht 13/06/94 8272582 AMG zone: 52 497263 Datum: AGD84	Locality: Elevation: No Da Rainfall: No Da Runoff: No Da Drainage: Poorly	ata						
<u>Geoloqy</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Parent. Mat Substrate Material:	.: No Data No Data						
<u>Land Form</u> Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Level plain <9m <1% Flat Plain 0 %	Pattern Type:PlainRelief:No DaSlope Category:No DaAspect:No Da	ata						
Surface Soil Co Erosion:	ondition Cracking								
Soil Classificat	ion								
Australian Soil C N/A ASC Confidence	:	Mapping Unit Principal Pro Great Soil Gr	file Form: N/A						
Confidence level Site	not specified No effective disturbance other	than grazing by boofed anim	als						
Vegetation: Surface Coarse			200						
Profile A11 0 - 0.06 i	n Dark greyish brown (10YR4	4/2-Moist); ; Medium clay; Mo	oderate grade of structure, 5-10						
mm, Granular;	Rough-ped fabric; Dry; Firn	Rough-ped fabric; Dry; Firm consistence; Field pH 6.9 (pH meter); Clear change to -							
A12 0.06 - 0.2	25 m Dark greyish brown (2.5Y4/	/2-Moist); ; Medium heavy cla	ay; Strong grade of structure, 20-						
50 mm,	Subangular blocky; Rough-	Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %),							
Manganiferous,	Fine (0 - 2 mm), Concretions; Field pH 7.1 (pH meter); Gradual change to -								
B21 0.25 - 1.0	02 m Dark greyish brown (2.5Y4/	/2-Moist); ; Medium heavy cla	ay; Weak grade of structure, 50-						
100 mm,	Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %),								
Manganiferous,	Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm),								
Concretions; Field	H 8.1 (pH meter); Clear change to -								
B22 1.02 - 1.8	3 m Brown (7.5YR4/3-Moist); ; I	Brown (7.5YR4/3-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm,							
Angular blocky;	Smooth-ped fabric; Moist; S	Strong consistence; Few (2 -	10 %), Gypseous, Medium (2 -6						
mm), Crystals;	Very few (0 - 2 %), Calcare	ous, Fine (0 - 2 mm), Concre	etions; Field pH 8 (pH meter);						

## Morphological Notes

## **Observation Notes**

## Site Notes

Site is gilgaied with 5mm crust and prominent cracks which extend to 60cms. Main roots to 75cms and fine to 150. Primary structure of layers3-5 - 5ABS. PEDAL GREY VERTOSOL Sampled: 0-6; 6-25; 25-72; 75-102; 102-180.

Knox Creek Plain survey (Kununurra) KNX Site ID: 0138 Project Name: Project Code: Agency Name: Agriculture Western Australia

Observation 1

Laboratory Test Results:

Depth	рН	1:5 EC	Exe	changeabl Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	Uu	ing	ĸ	Cmol (+)/kg			%
0 - 0.06	6.1B 6.6H	23B	12.08A	13.99	1.2	0.33		27.6D	
0.06 - 0.25	6.4B 6.8H	31B	15.1A	14.32	0.91	0.63		30.96D	
0.25 - 0.72	7.2B 7.6H	87B	18.59A	14.33	0.98	1.75		35.65D	
0.72 - 1.02	7.9B 8.2H	150B	15.57E	12.95	0.42	3.86	29B	32.8D	13.31
1.02 - 1.8	7.8B 7.9H	430B	11.18E	17.1	0.46	7.02	29B	35.76D	24.21

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV I	Particle S CS	Size / FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.06 46.2		0.63D		60B	0.039E						13.8
0.06 - 0.25		0.33D		40B	0.021E						13.4
0.25 - 0.72 48.7		0.3D		46B	0.018E						13.9
0.72 - 1.02 50.3	2C	0.3D		40B	0.019E						14.1
1.02 - 1.8 47.5		0.13D		36B	0.01E						12.5

## Laboratory Analyses Completed for this profile

12A1_ZN 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	DTPA - extractable copper, zinc, manganese and iron 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
15A1_CEC 15A1_K for soluble	salts 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
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts 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, 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
15N1_a 15N1_b 19B_NR 3_NR	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded

4\_NR 4B1

pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct

Project Name: Project Code: Agency Name:	KNX Site ID: 0138 Observation
5_NR	Water soluble Chloride - Cl(%) - Not recordede
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)