

**Project Name:** Harvey-Capel land resources survey  
**Project Code:** WCC **Site ID:** 0458 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Bev Kipling	<b>Locality:</b>	
<b>Date Desc.:</b>	30/05/90	<b>Elevation:</b>	95 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6324900 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	395950 Datum: AGD84	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Landform**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>		<b>Slope Category:</b>	No Data
<b>Slope:</b>	25 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Firm

**Erosion**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	Dy5.21
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance**

**Vegetation**

**Surface Coarse Fragments**

**Profile Morphology**

A1	0 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Wet; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 7.5 (pH meter); Gradual change to -
A2	0.15 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Water repellent; Field pH 7 (pH meter); Abrupt change to -
B21	0.5 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 10-20% , 15-30mm, Distinct; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; 2-10%, coarse gravelly, 20- 60mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Gradual change to -
B22	0.9 - 1.8 m	Very pale brown (10YR7/4-Moist); , 20-50% , 15-30mm, Distinct; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Gradual change to -
B23	1.8 - 2.3 m	White (10YR8/1-Moist); , 10-20% , 5-15mm, Prominent; , 2-10% , 5-15mm, Distinct; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; 2-10%, coarse gravelly, 20- 60mm, subrounded, Quartz, coarse fragments; Field pH 5 (pH meter);

**Morphological Notes**

**Observation Notes****Site Notes**

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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 - 0.15	5.1B 5.9H	7B	4.44A	1.8	0.27	0.16			6.67D	
0 - 0.15	5.1B 5.9H	7B	4.44A	1.8	0.27	0.16			6.67D	
0.15 - 0.5	5.7B 6.3H	11B	8.01H	1.93	0.28	0.33	0.03J		10.55D	
0.15 - 0.5	5.7B 6.3H	11B	8.01H	1.93	0.28	0.33	0.03J		10.55D	
0.5 - 0.9	5.5B 5.8H	7B	1.16H	3.54	0.26	0.4	<0.02J		5.36D	
0.5 - 0.9	5.5B 5.8H	7B	1.16H	3.54	0.26	0.4	<0.02J		5.36D	
0.9 - 1.8	4.8B 5.6H	6B	0.76H	2.94	0.14	0.3	0.09J		4.14D	
0.9 - 1.8	4.8B 5.6H	6B	0.76H	2.94	0.14	0.3	0.09J		4.14D	
1.8 - 2.3	4B 4.7H	8B	0.19H	1.28	0.04	0.24	2.62J		1.75D	
1.8 - 2.3	4B 4.7H	8B	0.19H	1.28	0.04	0.24	2.62J		1.75D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		3.58D		82B	0.121E						4.5
4.1											
0 - 0.15		3.58D		82B	0.121E						4.5
4.1											
0.15 - 0.5		5D		110B	0.138E						17.3
9.1											
0.15 - 0.5		5D		110B	0.138E						17.3
9.1											
0.5 - 0.9		0.2D		26B	0.012E						13.7
65.5											
0.5 - 0.9		0.2D		26B	0.012E						13.7
65.5											
0.9 - 1.8		0.17D		27B	0.012E						3.7
59											
0.9 - 1.8		0.17D		27B	0.012E						3.7
59											
1.8 - 2.3		0.09D		36B	0.007E						19.3
41.4											
1.8 - 2.3		0.09D		36B	0.007E						19.3
41.4											

**Laboratory Analyses Completed for this profile**

15\_NR\_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available  
 15\_NR\_CMV Exchangeable bases (Ca/Mg ratio) - Not recorded  
 15A1\_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment  
 for soluble salts  
 15A1\_CEC Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

15A1_K 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 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 salts
15A1_NA 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 salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) 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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
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)
P3B_GV_03	0.3 BAR Moisture g/g - Gravimetric using suction plate
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate