

**Project Name:** Southern Cross Hyden land resources survey  
**Project Code:** SCS **Site ID:** 1182 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Mir Frahmmand  
**Date Desc.:** 17/09/94  
**Map Ref.:**  
**Northing/Long.:** 6384970 AMG zone: 50  
**Easting/Lat.:** 651522 Datum: AGD84  
**Locality:**  
**Elevation:** 360 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

**Geology**

**ExposureType:** Existing vertical exposure  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

**Landform**

**Rel/Slope Class:** No Data  
**Morph. Type:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 4 %  
**Pattern Type:** Peneplain  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** 180 degrees

**Surface Soil Condition** Soft

**Erosion**

**Soil Classification**

**Australian Soil Classification:**  
 Eutrophic Mottled-Mesonatric Brown Sodosol Thick Clayey  
 Moderately deep  
**Mapping Unit:** N/A  
**Principal Profile Form:** N/A  
**ASC Confidence:**  
 Confidence level not specified  
**Great Soil Group:** N/A

**Site Disturbance**

**Vegetation**

**Surface Coarse Fragments**

**Profile Morphology**

0 - 0.1 m prominent)	Dark yellowish brown (10YR4/4-Moist); ; Single grain grade of structure; Sandy (grains fabric; Field pH 6.2 (pH meter); Gradual change to -
0.1 - 0.35 m (grains)	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Single grain grade of structure; Sandy prominent) fabric; Field pH 6.7 (pH meter); Clear change to -
0.35 - 0.4 m (grains)	Very pale brown (10YR7/3-Moist); ; Clayey sand; Single grain grade of structure; Sandy prominent) fabric; Field pH 7 (pH meter); Clear change to -
0.4 - 0.65 m Angular	Strong brown (7.5YR5/8-Moist); , 2.5YR48, 20-50% , Prominent; Weak grade of structure, blocky; Field pH 6.3 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

Soil type: SL/LMCm

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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 - 0.15	6B 6.6H	4B	1.6A	0.44	0.08	0.09			2.21D	
0.15 - 0.35	5.4B 6.4H	2B	0.7H	0.37	0.06	0.05	<0.02J		1.18D	
0.35 - 0.4	5.3B 6.6H	2B	0.36A	0.35	0.07	0.08			0.86D	

0.4 - 0.65	4.6B 5.8H	16B	0.98H	6.1	0.1	2.2	0.08J	9.38D
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Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.15		0.72D		36B	0.029E			4.1
3.1								
0.15 - 0.35		0.25D		35B	0.016E			4.3
4.3								
0.35 - 0.4		0.11D		42B	0.007E			4.4
2.9								
0.4 - 0.65		0.4D		28B	0.018E			5.9
47.6								

#### **Laboratory Analyses Completed for this profile**

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 (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_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
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn <sup>2+</sup> ) 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
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
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)

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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)