

**Project Name:** Southern Cross Hyden land resources survey  
**Project Code:** SCS **Site ID:** 0309 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Mir Frahmmand  
**Date Desc.:** 29/10/92  
**Map Ref.:**  
**Northing/Long.:** 6507749 AMG zone: 50  
**Easting/Lat.:** 653141 Datum: AGD84  
**Locality:**  
**Elevation:** 340 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

#### Geology

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

#### Landform

**Rel/Slope Class:** No Data  
**Morph. Type:** Lower-slope  
**Elem. Type:** Footslope  
**Slope:** %  
**Pattern Type:** Peneplain  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** 315 degrees

#### Surface Soil Condition Soft

#### Erosion

#### Soil Classification

**Australian Soil Classification:** Endohypersodic Regolithic Supracalcic Calcarosol  
**Mapping Unit:** N/A  
**Principal Profile Form:** N/A  
**ASC Confidence:** No analytical data and little or no knowledge of this soil.  
**Great Soil Group:** N/A

#### Site Disturbance No effective disturbance other than grazing by hoofed animals

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

0 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, ; Field pH 8.6 (pH meter);
0.25 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Weak grade of structure, ; 10-20%, Granite, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous; Field pH 9.5 (pH meter); Many, fine (1-2mm) roots;
0.6 - 1 m	Brown (7.5YR5/4-Moist); ; Light clay; Massive grade of structure; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Nodules; Soil matrix is Moderately calcareous; Field pH 10 (pH meter);
1 - 1.25 m	Brown (7.5YR5/4-Moist); , 10-20% ; Light clay; Massive grade of structure; Common (10 - 20 %), Manganiferous, , Soft segregations; Field pH 9.7 (pH meter);

#### Morphological Notes

FD K  
 FD K  
 GRAY MOTTLES

#### Observation Notes

#### Site Notes

Day rd & S. Burracoppin rd--Catchment group pit--Dull yellowish-red sandy loam/clay

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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		Ca	Mg	K	Na	Acidity			
m	dS/m				Cmol (+)/kg				%
0 - 0.25	7.2B 8.5H	8B	9.79E	6.7	1.92	1.46	22J	19.87D	6.64
0.25 - 0.6	8B 9H	20B	8.48E	6.9	2.03	2.15	22J	19.56D	9.77
0.6 - 1	8.4B 9.7H	40B	3.07E	4.68	1.32	4.4	16J	13.47D	27.50
1 - 1.25	8.2B 9H	130B	1.65E	6.44	1.88	10.15	21J	20.12D	48.33

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis		
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt		%
0 - 0.25	<2C	0.3D		49B	0.036E					8.9
42.7										
0.25 - 0.6	19C	0.1D		39B	0.022E					10.3
32.5										
0.6 - 1	34C	0.09D		22B	0.017E					18.4
51.7										
1 - 1.25	<2C	0.07D		24B	0.017E					4.1
48.3										

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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	
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)
19B_NR	Calcium Carbonate (CaCO3) - 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

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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)