

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 0315 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Mir Frahmmand	Locality:	
Date Desc.:	29/10/92	Elevation:	340 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6500311 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	657900 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class:	No Data	Pattern Type:	Peneplain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Summit surface	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Surface crust

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric-Sodic Eutrophic Red Kandosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A

No analytical data and little or no knowledge of this soil.

Site Disturbance Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

0 - 0.1 m subrounded,	Dark brown (10YR3/3-Moist); ; Loamy fine sand; 20-50%, medium gravelly, 6-20mm, Ironstone, coarse fragments; Water repellent; Field pH 6.6 (pH meter);
0.1 - 0.8 m subrounded, Ironstone,	Red (2.5YR4/8-Moist); ; Fine sandy loam; 20-50%, medium gravelly, 6-20mm, coarse fragments; Field pH 7.1 (pH meter);
0.8 - 1.7 m subrounded,	Strong brown (7.5YR4/6-Moist); ; Fine sandy clay loam; 50-90%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Field pH 7.1 (pH meter);
1.7 - 2.1 m Ironstone,	Reddish yellow (7.5YR6/8-Moist); ; Light clay; 50-90%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 8.9 (pH meter);
2.1 - 2.5 m Ironstone, coarse	Yellowish brown (10YR5/6-Moist); ; 50-90%, medium gravelly, 6-20mm, subrounded, fragments; Soil matrix is Moderately calcareous; Field pH 9.6 (pH meter);

Morphological Notes

MOTTLED ZONE--CLAYEY SANDY GRAVEL

Observation Notes

Site Notes

S. Burracoppin rd--Gravel pit--30m from site #314--Yellow red gravelly loam over clay

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity			%	
0 - 0.1	5.9B 6.6H	9B	7.89A	1.74	0.48	0.4		9J	10.51D	4.44
0.1 - 0.8	7B 7.7H	15B	4.62A	2.85	0.1	0.74		8J	8.31D	9.25
0.8 - 1.7	7.1B 7.9H	4B	3.14A	1.76	0.07	0.18		4J	5.15D	4.50
1.7 - 2.1	7.5B 9H	8B	3.46E	3.41	0.25	1.89		10J	9.01D	18.90
2.1 - 2.5	8.3B 9.4H	28B	3.52E	3.2	0.41	2.94		11J	10.07D	26.73

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 - 0.1		2.57D		78B	0.105E						6.8
15.1											
0.1 - 0.8		0.15D		41B	0.015E						6.9
26.7											
0.8 - 1.7		0.09D		31B	0.009E						4.8
22.8											
1.7 - 2.1	<2C	0.04D		26B	0.008E						4.2
26.8											
2.1 - 2.5	3C	0.02D		21B	0.007E						5.2
8.6											

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_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_K 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
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_K soluble salts	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	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
18A1_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Calcium Carbonate (CaCO3) - Not recorded
4_NR	Electrical conductivity or soluble salts - Not recorded
4B_AL_NR	pH of soil - Not recorded
	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

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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)