

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 0310 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 28/10/92
Map Ref.:
Northing/Long.: 6507519 AMG zone: 50
Easting/Lat.: 653241 Datum: AGD84
Locality:
Elevation: 330 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 Firm

Erosion

Soil Classification

Australian Soil Classification:
 Basic Paralithic Sequi-Nodular Tenosol
ASC Confidence:
 No analytical data and little or no knowledge of this soil.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

0 - 0.3 m Dark yellowish brown (10YR3/4-Moist); , 2-10% ; Fine sandy loam; Weak grade of structure; ; Earthy fabric; Field pH 6.3 (pH meter); Few, medium (2-5mm) roots;
 0.3 - 0.75 m Yellowish brown (10YR5/8-Moist); , 20-50% , Distinct; Fine sandy loam; Weak grade of structure; ; Earthy fabric; 50-90%, Ironstone, coarse fragments; , Ferruginous, , Soft segregations; Field pH 6.3 (pH meter); , medium (2-5mm) roots;
 R 0.75 - m Rock

Morphological Notes

ORANGE MOTTLES
 Orange mottles
 R GNEISS ROCK

Observation Notes

Site Notes

Yellowish brown sandy loam--This soil is developed from granite--Granite rock within 50-75cm of the surface--
 Seems waterlogged in winter

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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 - 0.3	4.3B 5.2H	4B	1.61H	0.52	0.42	0.08	0.38J		2.63D	
0.3 - 0.75	5.3B	5B	1.96H	1.05	0.28	0.21	0.02J		3.5D	

6H

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.3		0.54D		54B	0.049E			7.6
17.2								
0.3 - 0.75		0.25D		71B	0.035E			7.4
22.7								

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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 ²⁺) 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
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)