

Project Name: Southern Cross Hyden land resources survey
Project Code: SCS **Site ID:** 0313 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 28/10/92
Map Ref.:
Northing/Long.: 6508514 AMG zone: 50
Easting/Lat.: 654326 Datum: AGD84
Locality:
Elevation: 340 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

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: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition Loose

Erosion (wind);

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

0 - 0.1 m repellent; Field	Dark brown (10YR3/3-Moist); ; Fine sandy loam; Single grain grade of structure; Water pH 7.3 (pH meter);
0.1 - 0.2 m subrounded, fragments; Field pH 8	Brown (7.5YR4/4-Moist); ; Fine sandy clay loam; Massive grade of structure; 50-90%, Calcrete, coarse fragments; 2-10%, medium gravelly, 6-20mm, Ironstone, coarse (pH meter);
0.2 - 0.55 m Calcrete, coarse	Brown (7.5YR4/4-Moist); ; Light clay; Massive grade of structure; 50-90%, subrounded, fragments; 20-50%, subangular, Ironstone, coarse fragments; Field pH 9.1 (pH meter);
0.55 - 1.1 m gravelly, 6- 20 mm), Soft	Light brown (7.5YR6/4-Moist); ; Light clay; Massive grade of structure; 20-50%, medium 20mm, angular, Calcrete, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - segregations; , Calcareous, , Nodules; Field pH 9.3 (pH meter);

Morphological Notes

PALLID ZONE--CALCAREOUS ROCKS?
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Observation Notes

Site Notes

Day rd--Catchment group soil pit--Gravelly brown sandy loam/clay

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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 - 0.1	6.1B 6.7H	15B	4.41A	2.35	0.45	0.67		6J	7.88D	11.17
0.1 - 0.2	7.6B 8H	150B	6.47E	7.35	1.31	3.03		18J	18.16D	16.83
0.2 - 0.55	8.2B 8.5H	430B	4.66E	8.74	1.54	3.82		16J	18.76D	23.88
0.55 - 1.1	8.4B 8.9H	320B	2.3E	6.24	1.44	6.19		14J	16.17D	44.21

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%	
0 - 0.1 11.3		1.39D		74B	0.068E							4.1
0.1 - 0.2 43.9	<2C	0.84D		33B	0.05E							4.7
0.2 - 0.55 39.5	23C	0.29D		32B	0.032E							11.2
0.55 - 1.1 16.9	18C	0.17D		28B	0.015E							13.8

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_CM	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_BA	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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_N	Bicarbonate-extractable potassium (not recorded)
19B_N	Calcium Carbonate (CaCO3) - Not recorded
3_N	Electrical conductivity or soluble salts - Not recorded
4_N	pH of soil - Not recorded
4B_AL_N	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_N	Bicarbonate-extractable phosphorus (not recorded)

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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)