

Project Name: Ravensthorpe land resources survey
Project Code: RAV **Site ID:** 0244 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Brendan Nicholas	Locality:	
Date Desc.:	14/08/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6300108 AMG zone: 51	Runoff:	No Data
Easting/Lat.:	314931 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

Erosion (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Yellow Sodosol		Principal Profile Form:	Dy4.43
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Ap	0 - 0.15 m	Brown (10YR4/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Field pH 7 (pH meter);
B1	0.15 - 0.24 m	Very pale brown (10YR7/3-Moist); ; Light medium clay; Massive grade of structure; Field pH 8.3 (pH meter);
B2t	0.24 - 0.4 m	Very pale brown (10YR7/4-Moist); ; Light medium clay; Massive grade of structure; Field pH 9.3 (pH meter);
B21k	0.4 - 0.7 m	Very pale brown (10YR7/3-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Polyhedral; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9.5 (pH meter);
B22	0.7 - 1 m	Pale brown (10YR6/3-Moist); ; Light medium clay; Weak grade of structure, 100-200 mm, Polyhedral; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.4 (pH meter);
k	1 - 1.3 m	Light grey (10YR7/2-Moist); ; Light medium clay; Many (20 - 50 %), , , Soft segregations; Field pH 9.3 (pH meter);
	1.3 - 1.4 m	Light grey (2.5Y7/2-Moist); ; Light medium clay; , , Medium (2 -6 mm), Concretions; Field pH 9.2 (pH meter);

Morphological Notes

Ap
 B1
 B2t
 B21k
 B22

k

Observation Notes

Site Notes

Roots in old root channels.coarse sand.above gradebank ? ? By cultivation.res1275.

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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	6.4B 7.5H	14B	3.15A	3.69	0.45	1.04			8.33D	
0.15 - 0.24	8.1B 9.2H	50B	2.2E	5.41	0.7	5.43		14B	13.74D	38.79
0.24 - 0.4	8.7B 9.5H	110B	1.79E	5.97	0.76	6.45		13B	14.97D	49.62
0.4 - 0.7	8.9B 9.6H	160B	1.18E	7.02	0.87	7.95		16B	17.02D	49.69
0.7 - 1	8.7B 9.5H	190B	1.28E	6.19	0.82	7.88		14B	16.17D	56.29
1 - 1.3	8.6B 9.4H	200B	0.86E	8.14	1	9.58		18B	19.58D	53.22
1.3 - 1.4	8.6B 9.3H	180B	0.36E	7.19	0.91	7.92		13B	16.38D	60.92

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.15 10.6		0.95D		80B	0.048E					2.4
0.15 - 0.24 25.6	<2C	0.18D		21B	0.015E					2.2
0.24 - 0.4 27.9	<2C	0.1D		19B	0.009E					1.9
0.4 - 0.7 30.2	2C	0.07D		16B	0.006E					2.4
0.7 - 1 32	39C	0.17D		16B	0.011E					11
1 - 1.3 38.4	20C	0.12D		17B	0.01E					7.3
1.3 - 1.4 30	<2C	0.07D		14B	0.008E					4.4

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
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

15C1_CA pretreatment for	salts Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K 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 and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC

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15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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)
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)