

Project Name: Ravensthorpe land resources survey
Project Code: RAV **Site ID:** 0246 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Brendan Nicholas	Locality:	
Date Desc.:	21/08/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6303010 AMG zone: 51	Runoff:	No Data
Easting/Lat.:	314341 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:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1.5 %	Aspect:	90 degrees

Surface Soil Condition Hardsetting

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Yellow Sodosol		Principal Profile Form:	Dy4.43
ASC Confidence:		Great Soil Group:	Solodized

solonetz

Confidence level not specified

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Ap	0 - 0.16 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric;
		Dry; Very firm consistence; Field pH 6.6 (pH meter); Clear, Smooth change to -
B21t	0.16 - 0.27 m	Brown (7.5YR5/3-Moist); ; Clay loam, sandy; Strong grade of structure, Polyhedral;
Moderately moist;		Very firm consistence; Field pH 7.3 (pH meter); Gradual, Wavy change to -
B22tk	0.27 - 0.5 m	Very pale brown (10YR7/4-Moist); ; Light clay; Moderately moist; Very firm consistence;
Field pH 8.4 (pH		meter); Gradual, Wavy change to -
B23tk	0.5 - 0.8 m	Very pale brown (10YR8/3-Moist); ; Light clay; Moderately moist; Very firm consistence;
Common (10 -		20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 9 (pH meter); Gradual
change to -		
C1	0.8 - 1 m	Very pale brown (10YR8/3-Moist); ; Light clay; Moderately moist; Very firm consistence;
Field pH 8.7 (pH		meter);

Morphological Notes

Ap
 B21t
 B22tk
 B23tk
 C1

Observation Notes

Site Notes

Geoff males gypsum site.res1279. Entrance of organic matter ? ???

Project Name: Ravensthorpe land resources survey
 Project Code: RAV Site ID: 0246 Observation 1
 Agency Name: Agriculture Western Australia

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 - 0.16	5.9B 7H	22B	3.08A	4.35	0.35	1.49			9.27D	
0.16 - 0.27	7.2B 8.3H	44B	2E	5.88	0.52	3.72		13B	12.12D	28.62
0.27 - 0.5	8B 9H	71B	1.7E	7.78	0.72	5.25		15B	15.45D	35.00
0.5 - 0.8	8.4B 9.1H	140B	1E	8.83	0.94	7.88		17B	18.65D	46.35
0.8 - 1	8.2B 8.9H	150B	0.9E	8.45	0.9	7.13		16B	17.38D	44.56

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.16		1D		81B	0.043E			
14.4								2.1
0.16 - 0.27	<2C	0.58D		27B	0.029E			1.9
23.7								
0.27 - 0.5	<2C	0.15D		19B	0.012E			1.7
30.8								
0.5 - 0.8	<2C	0.06D		17B	0.006E			1.8
36.9								
0.8 - 1	<2C	0.06D		19B	0.005E			3
30.9								

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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	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
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - 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_BASIS	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
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

Project Name: Ravensthorpe land resources survey
Project Code: RAV **Site ID:** 0246 **Observation** 1
Agency Name: Agriculture Western Australia

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)