Project Name: **Corrigin land resources survey**
Project Code: **COR** **Site ID:** **0213** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Bill Verboom	**Locality:**	
Date Desc.:	28/06/96	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6376796 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	579454 Datum: AGD84	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Peneplain
Morph. Type:	No Data	**Relief:**	50 metres
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	135 degrees

Surface Soil Condition

Erosion: (wind); (scald) (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Regolithic Yellow-Orthic Tenosol Thick Non-gravelly Sandy Loamy Very deep **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.12 m Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure;
Moist; Loose consistence; Water repellent; AbundantClear, Tongued change to -

A2 0.12 - 0.52 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moist;
Loose consistence; ManyClear, Tongued change to -

B21 0.52 - 1.3 m Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR48, 20-50% , 30-mm, Prominent; Sandy loam; Massive
grade of structure; Moist; Very firm consistence; FewClear, Smooth change to -

B22 1.3 - 1.6 m Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Single grain grade of structure; Moist; Loose
consistence; Clear, Tongued change to -

c 1.6 - 2.5 m ; 20-50%, coarse gravelly, 20-60mm, rounded, Ironstone, coarse fragments;

Morphological Notes

A1 Evidence of bioturbation, coarse surface sand wash.
B21 Bioturbation onto but not in mottled zone.
c Hard indurated red mottles in yellow matrix.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.5B	3B	1.36H	0.25	0.15	0.02	0.15J	3.9C	1.78D	1.54
	5.5H		1.4F	0.2	0.06	0.06			1.72D	
	5.1J									
0 - 0.1	4.5B	3B	1.36H	0.25	0.15	0.02	0.15J	3.9C	1.78D	1.54
	5.5H		1.4F	0.2	0.06	0.06			1.72D	
	5.1J									
0 - 0.1	4.5B	3B	1.36H	0.25	0.15	0.02	0.15J	3.9C	1.78D	1.54
	5.5H		1.4F	0.2	0.06	0.06			1.72D	
	5.1J									
0 - 0.04										
0 - 0.01	5.7J		0.4F	0.2	0.02	0.04		1.3C	0.66D	3.08
0.2 - 0.35	4.7B	2B	0.64H	0.24	0.11	<0.02	0.02J	2.1C	1D	1.90
	5.7H		0.8F	0.3	0.06	0.04			1.2D	
	5.2J									
0.2 - 0.35	4.7B	2B	0.64H	0.24	0.11	<0.02	0.02J	2.1C	1D	1.90
	5.7H		0.8F	0.3	0.06	0.04			1.2D	
	5.2J									
0.2 - 0.35	4.7B	2B	0.64H	0.24	0.11	<0.02	0.02J	2.1C	1D	1.90
	5.7H		0.8F	0.3	0.06	0.04			1.2D	
	5.2J									
0.25 - 0.29										
0.8 - 0.95	5.5B	3B	0.86H	0.82	0.02	0.04		2.9C	1.74D	2.76
	5.9H		0.9F	0.6	0.02	0.08			1.6D	
	6J									
0.8 - 0.95	5.5B	3B	0.86H	0.82	0.02	0.04		2.9C	1.74D	2.76
	5.9H		0.9F	0.6	0.02	0.08			1.6D	
	6J									
0.8 - 0.95	5.5B	3B	0.86H	0.82	0.02	0.04		2.9C	1.74D	2.76
	5.9H		0.9F	0.6	0.02	0.08			1.6D	
	6J									
0.85 - 0.89										
1.4 - 1.55	6.2J		0.5F	0.6	<0.01	0.06		2.4C	1.165D	2.50
1.4 - 1.55	6.2J		0.5F	0.6	<0.01	0.06		2.4C	1.165D	2.50
2.4 - 2.5	5.5J		0.2F	0.8	<0.01	0.13		2.5C	1.135D	5.20
2.4 - 2.5	5.5J		0.2F	0.8	<0.01	0.13		2.5C	1.135D	5.20

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		0.94D		59B						27	2.9
6.9											
		1.56A									4
		4									
0 - 0.1		0.94D		59B						27	2.9
6.9											
		1.56A									4
		4									
0 - 0.1		0.94D		59B						27	2.9
6.9											
		1.56A									4
		4									
0 - 0.04							1.50				
0 - 0.01		0.52A								3	0
1											
0.2 - 0.35		0.17D		26B						29	2.4
12.1											
		0.15A									3
		10									

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0.2 - 0.35	0.17D	26B		29	2.4
12.1					
	0.15A				3
10					
0.2 - 0.35	0.17D	26B		29	2.4
12.1					
	0.15A				3
10					
0.25 - 0.29			1.53		
0.8 - 0.95	0.12D	34B		20	3.1
18.6					
	0.08A				5
13					
0.8 - 0.95	0.12D	34B		20	3.1
18.6					
	0.08A				5
13					
0.8 - 0.95	0.12D	34B		20	3.1
18.6					
	0.08A				5
13					
0.85 - 0.89			1.57		
1.4 - 1.55	0A			37	6
12					
1.4 - 1.55	0A			37	6
12					
2.4 - 2.5	0.01A			32	5
7					
2.4 - 2.5	0.01A			32	5
7					

Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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 (Mn2+) 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
15L1	Base saturation percentage (BSP)
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
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
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded

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P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10_PB_FS	Fine sand (%) - Plummet balance
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)
P10200_500	200 to 500u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P105002000	500 to 2000u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)
P3A_NR	Bulk density - Not recorded