

Project Name: Frankland land resources survey
Project Code: FRA **Site ID:** 0822 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Angela Stuart-Street	Locality:
Date Desc.: 07/12/98	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6223414 AMG zone: 50	Runoff: No Data
Easting/Lat.: 539427 Datum: AGD84	Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Upper-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 1 %	Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Mottled-Hypernatric Grey Sodosol	Principal Profile Form: N/A
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 0-2%, medium gravelly, 6-20mm, subangular, Gneiss; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; 2-10%, 20mm, Clear, Smooth
A2e	0.1 - 0.25 m	Brownish yellow (10YR6/6-Moist); ; Coarse sand; Massive grade of structure; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH 4.7 (pH meter); change to -
B1	0.25 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR56, 10-20% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Field pH 5.4 (pH meter); Clear, Wavy change to -
B2t	0.3 - 0.55 m	Light grey (2.5Y7/2-Moist); Mottles, 7.5YR56, 20-50% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Rough-ped fabric; Field pH 5.2 (pH meter); Gradual, Irregular change to -
Cr	0.55 - 1.25 m	Light grey (2.5Y7/2-Moist); Mottles, 2.5YR46, 20-50% , 30-mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Field pH 3.7 (pH meter);

Morphological Notes

B2t	Sampled: 30-55, 60-120.
Cr	Weathered gneiss

Observation Notes

Site Notes

Site close to crest of rise, adjacent to dam. Gneissic/granitic rocks scattered on surface nearby. Water in nearby dam has EC of 190 mS/m.

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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	4.4B 5.3H	7B	2.53H	0.4	0.08	0.16	0.33J		3.17D	
0.1 - 0.25	4.6B 5.8H	1B	0.71H	0.18	<0.02	0.07	0.06J		0.97D	
0.25 - 0.3	4.7B 6.4H	4B	1.47H	2.26	0.06	0.61	0.06J		4.4D	
0.3 - 0.55	4.6B 6.1H	7B	2.58H	6.2	0.07	1.74	0.16J		10.59D	
0.55 - 1.25	4.1B 4.7H	82B	0.59H	5.51	0.02	3.18	0.52J		9.3D	

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 - 0.1		1.54D		140B				4.1
4.5								
0.1 - 0.25		0.13D		42B				3.5
3.8								
0.25 - 0.3		0.23D		28B				8.5
23.1								
0.3 - 0.55		0.32D		25B				4.8
46.8								
0.55 - 1.25		0.11D		18B				3.9
15.3								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
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
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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
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_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)

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P106001000 600 to 1000u particle size analysis, (method not recorded)