

Project Name: Forest Nitrogen, S.A.
Project Code: FN **Site ID:** A471 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	C.G. Stephens	Locality:	
Date Desc.:	28/11/56	Elevation:	427 metres
Map Ref.:		Rainfall:	660
Northing/Long.:	139	Runoff:	Moderately rapid
Easting/Lat.:	-34.7166666666667	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Mesotrophic Brown Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Soloth

No analytical data are available but confidence is fair.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Tree, 12.01-20m, . *Species includes - Pinus radiata

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
A2	0.05 - 0.13 m	Brown (10YR4/3-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
A2	0.13 - 0.28 m	Brown (10YR5/3-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
A2	0.28 - 0.38 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Sharp change to -
B1	0.38 - 0.63 m	Yellowish brown (10YR5/6-Moist); , 2.5Y54; Sandy medium clay; Moderately plastic; Diffuse change to -
B2	0.63 - 0.81 m	Strong brown (7.5YR5/6-Moist); , 10YR56; , 2.5Y62; Sandy medium clay; Firm consistence; Moderately plastic; Sharp change to -
	0.81 - 0.84 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Very firm consistence; 2-10%, angular, Gravel, coarse fragments; Sharp change to -
	0.84 - 1.17 m	Strong brown (7.5YR5/6-Moist); , 10YR54; , 2.5Y62; Sandy clay loam; Massive grade of structure;

Morphological Notes

Observation Notes

Site Notes

ADELAIDE

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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 - 0.05	5.4H	0.023C	1.6K	0.9	0.08	0.2	4D			
0.05 - 0.13	5.7H	0.012C								
0.13 - 0.28	5.4H	0.009C								
0.28 - 0.38	6H	0.015C								
0.38 - 0.63	5.9H	0.09C								
0.63 - 0.81	6.4H	0.12C								
0.81 - 0.84	6.6H	0.11C								
0.84 - 1.17	8.2H	0.18C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		1.5E		0.005F	0.43B				43C	50	3	3
0.05 - 0.13									43C	51	3	3
0.13 - 0.28												
0.28 - 0.38		0.33E		0.006F	0.014B				41C	51	3	5
0.38 - 0.63		0.38E		0.009F	0.032B				22C	36	2	41
0.63 - 0.81									30C	30	3	38
0.81 - 0.84												
0.84 - 1.17								1	39C	36	6	18

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded