Project Name: **Forest Nitrogen, S.A.**
Project Code: **FN** **Site ID:** **A470** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	C.G. Stephens	**Locality:**	
Date Desc.:	27/11/56	**Elevation:**	427 metres
Map Ref.:		**Rainfall:**	0
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:	Level plain <9m <1%	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	0 metres
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Lithocalcic Mesonatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Soloth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Mid Strata - Shrub, , . *Species includes - Hakea species
Tall Strata - Tree, 12.01-20m, . *Species includes - Pinus radiata

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Weak red (10R4/2-Moist); ; Loamy sand; Very weak consistence; Diffuse change to -
A2	0.05 - 0.15 m	Weak red (10R5/4-Moist); ; Loamy sand; Very weak consistence; Sharp change to -
B1	0.15 - 0.33 m	Olive brown (2.5Y4/4-Moist); ; Medium clay; , Angular blocky; Very strong consistence; Moderately plastic; Diffuse change to -
Bk	0.33 - 0.45 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Loose consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Diffuse change to -
Bk	0.45 - 0.75 m	Light olive brown (2.5Y5/4-Moist); , 10YR54; Sandy medium clay; Massive grade of structure; Moderately plastic; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Sharp change to -
Bk	0.75 - 0.9 m	Yellowish brown (10YR5/8-Moist); , 10YR61; Medium clay; Very many (50 - 100 %), Calcareous, Extremely coarse (> 60 mm), Concretions;

Morphological Notes

Observation Notes

WATER TABLE AT 76CM:

Site Notes

ADELAIDE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.2H	0.025C	1.2K	0.6	0.1	0.33	1.6D			
0.05 - 0.15	6.5H	0.013C								
0.15 - 0.33	8.2H	0.05C	7.9K	15.7	0.33	4.1	2.6D			
0.33 - 0.45	9.4H	0.14C								
0.45 - 0.75	9.3H	0.18C								
0.75 - 0.9	9.2H	0.28C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		0.66E		0.008F	0.039B				17C	71	8	4
0.05 - 0.15									19C	71	9	2
0.15 - 0.33	0.01C	0.53E		0.01F	0.05B				14C	23	0	60
0.33 - 0.45	3.2C							4	30C	28	1	40
0.45 - 0.75	3.7C											
0.75 - 0.9								21	15C	20	0	47

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.15										
0.15 - 0.33										
0.33 - 0.45										
0.45 - 0.75										
0.75 - 0.9										

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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
19B_NR	Calcium Carbonate (CaCO3) - 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 recordede
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