

Project Name: Regional
Project Code: REG **Site ID:** T32 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Spring Creek paddock adjacent to fence between windmill 2 and 3:
Date Desc.:	16/09/64	Elevation:	No Data
Map Ref.:	Sheet No. : 8258 1:100000	Rainfall:	870
Northing/Long.:	146.858333333333	Runoff:	Moderately rapid
Easting/Lat.:	-19.6625	Drainage:	No Data

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Backplain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Calcic Hypernatric Grey Sodosol	Principal Profile Form:	Dy2.43
ASC Confidence:	Great Soil Group:	Solonetz
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Forb, 0.26-0.5m, Isolated plants. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1/A2	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); Light brownish grey (10YR6/2-Dry); , 0-0% ; , 0-0% ; Sandy loam; Weak grade of structure, Platy; Massive grade of structure; Dry; Strong consistence; Sharp change to -
B21	0.08 - 0.18 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, 50-100 mm, Columnar; Moderate grade of structure, 20-50 mm, Prismatic; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
B22	0.18 - 0.43 m	Brown (10YR5/3-Moist); , 5YR44, 2-10% ; , 2-10% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Gradual change to -
	0.43 - 0.71 m	Yellowish red (5YR4/5-Moist); , 10YR43; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions;
2B	0.71 - 1.02 m	Yellowish red (5YR4/6-Moist); , 10YR43; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Gradual change to -
2B	1.02 - 1.17 m	Yellowish red (5YR5/6-Moist); , 0-0% ; , 0-0% ; Sandy medium clay; Very firm consistence; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Gradual change to -

Morphological Notes

Observation Notes

2-8CM STRONGLY BLEACHED 10YR82 (D) A2:43-71CT TRANSITIONAL HORIZON TO BURIED SOIL:

Site Notes

LANDSDOWN

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Laboratory Test Results:

Depth m	pH	1:5 EC	Ca	Exchangeable		Cations K	Na	Exchangeable	CEC	ECEC	ESP
		dS/m		Mg	Acidity			Cmol (+)/kg			
0 - 0.08	5.8A	0.238A	1.7E	1	0.3	0.5	2.6F	6C	6.1F	8.33	
0.08 - 0.18	7.7A	0.428A	4.8E	4.7	0.21	4.8	0.8F	15C	15.3F	32.00	
0.18 - 0.43	8.5A	1.1A	3.6E	5	0.06	5.9					
0.43 - 0.71	8.7A	1.14A									
0.71 - 1.02	9.3A	1.18A									
1.02 - 1.17	9.4A	1.01A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.08		0.6D	5B	0.011A	0.05A			0	23D	46	23	9
0.08 - 0.18			4B	0.012A				<2	20D	35	20	26
0.18 - 0.43	0.3A							0	13D	47	10	31
0.43 - 0.71												
0.71 - 1.02	2.5A											
1.02 - 1.17				0.005A								

[illegible]

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Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
19A1	Carbonates - rapid titration
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance