

Project Name: Regional
Project Code: REG **Site ID:** T110 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	.4KM north along powerlines from Saunders Beach Road:
Date Desc.:	21/10/69	Elevation:	15 metres
Map Ref.:	Sheet No. : 8259 1:100000	Rainfall:	1200
Northing/Long.:	146.6	Runoff:	Very slow
Easting/Lat.:	-19.1833333333333	Drainage:	Very poorly drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	No Data

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mesonatric Grey Sodosol		Principal Profile Form:	DY2.43
ASC Confidence:		Great Soil Group:	Solodic soil

Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus tessellaris, Eucalyptus alba, Melaleuca viridiflora

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1A2	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Greyish brown (10YR5/2-Dry); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations; Abrupt change to -
A2	0.1 - 0.17 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Sandy loam; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations; Abrupt change to -
B21	0.17 - 0.3 m	Dark grey (10YR4/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules;
B21	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Gradual change to -
B22	0.45 - 0.6 m	Greyish brown (2.5Y5/2-Moist); , 5Y53, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions;
B22	0.6 - 0.9 m	Greyish brown (2.5Y5/2-Moist); , 5Y53, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
B22	0.9 - 1.05 m	Greyish brown (2.5Y5/2-Moist); , 5Y53, 10-20% , 0-5mm, Distinct; , 10YR55, 10-20% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments; Diffuse change to -
BC	1.05 - 1.2 m	Greyish brown (10YR5/2-Moist); , 10YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Soft segregations;

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BC	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); , 10YR58, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; Diffuse change to -
BC	1.5 - 1.8 m	Greyish brown (2.5Y5/2-Moist); , 10YR58, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; Sharp change to -
D	1.8 - 2.1 m	Light brownish grey (10YR6/2-Moist); , 10YR44, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence;
D	2.1 - 2.25 m	Light brownish grey (10YR6/2-Moist); , 10YR44, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence;
	2.25 - 2.75 m	Greyish brown (10YR5/2-Moist); ; Sandy medium clay; Massive grade of structure; Rigid consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules;
D	2.75 - 3.2 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 2-10% ; , 2-10% ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Rigid consistence; Abrupt change to -
	3.2 - 3.7 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Loose consistence; 2-10%, rounded, Gravel, coarse fragments; Gradual change to -
	3.7 - 4.4 m	Greyish brown (10YR5/2-Moist); , 7.5YR44, 10-20% , 15-30mm, Prominent; , 10YR58, 10-20% , 15-30mm, Prominent; Clayey sand; Massive grade of structure; Weak consistence; 2-10%, rounded, Gravel, coarse fragments; Diffuse change to -
	4.4 - 5 m	Light grey (10YR7/1-Moist); , 7.5YR44; Sandy medium clay; Massive grade of structure; Weak consistence;

Morphological Notes

Observation Notes

A1 0-2CM:A2 2-10CM (10YR52M 72D):45-60CM 2MM SAND COATING ON COARSER FACES OR CRACKS:

Site Notes

SAUNDERS BEACH

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[illegible]

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension