

MURRAY DAIRY.

JANUARY 2017.

SOIL TEST RESULTS FOR LAND CAPABILITY ASSESSMENT PARAMETRES.

Sample Number	Site No.	Sample Name	Depth (cm)	EC 1:5 Soil/Water (uS/cm)	EC 1:5 Soil/Water (dS/m)	Texture	Texture Factor	EC 1:5 Soil/Water (dS/m) Sat Ext.	Soil pH (H ² O)	Slaking Class	Emerson Dispersion Class
1	Site 1	Holm. MD1. A1	0-10	210.0	0.210	SCL	10	2.1	6.30	2	5
2	Site 1	Holm. MD1. B1	10-45	170.0	0.170	MHC	7	1.2	6.90	2	3
3	Site 1	Holm. MD1. B2	45-80	172.2	0.172	MHC	7	1.2	8.05	2	4

4	Site 2	Holm. MD2. A1	0-10	200.0	0.200	KSCL	10	2.0	5.80	2	5
5	Site 2	Holm. MD2. A2	10-23	110.0	0.110	KSCL	10	1.1	6.10	2	2 (2)
6	Site 2	Holm. MD2. A3	23-58	93.4	0.093	KSCL	10	0.9	5.06	2	5
7	Site 2	Holm. MD2. B1	58-90	111.8	0.112	LSC	9	1.0	4.96	2	2 (1)

8	Site 3	Singleton. MD3. A1	0-12	270.0	0.270	KSL	11	3.0	7.20	2	5
9	Site 3	Singleton. MD3. A2	12-32	70.0	0.070	KSL	11	0.8	6.90	3	2 (1)
10	Site 3	Singleton. MD3. B1	32-64	191.6	0.192	MC (S)	7	1.3	6.84	2	1
11	Site 3	Singleton. MD3. B2	64-85	330.0	0.330	MC (S)	7	2.3	8.32	2	1

12	Site 4	Singleton. MD4. A1	0-10	140.0	0.140	LC (S)	9	1.3	6.80	2	5
13	Site 4	Singleton. MD4. B1	10-23	87.2	0.087	LC (S)	9	0.8	6.35	2	2 (1)
14	Site 4	Singleton. MD4. B2	23-60	70.0	0.070	MHC	7	0.5	6.20	3	1
15	Site 4	Singleton. MD4. B3	60-90	278.0	0.278	MHC	7	1.9	7.69	2	2 (1)

INTERPRETATION.

SOIL SALINITY - ECe SATURATION EXTRACT.

	0-2.0 dSm. Low lever of soil salinity.
	2.0-4.0 dS/m. Moderate EC. Sensitive species will be effected.
	4.0-6.0 dS/m. Moderate - high EC. Salt tolerant species suited only.
	6.0-10.0 dS/m. High EC.
	10.0-13.0 dS/m. Very high EC.
	>13 dS/m. Extreme EC.

Reference: Rayment & Higginson, 1992; University of Melbourne, 2005.

TEXTURE FACTORS.

QLD Dept Env & NRM 'Salinity Management Handbook' (2011).
Soil Description Handbook' Weatherby (1992).

SOIL PH (WATER).

Reference: Rayment & Higginson (1992); University of Melbourne (2005).

SOIL SLAKING CLASS.

Slaking Class	Interpretation
0	No change
1	Aggregate breaks open but remains intact
2	Aggregate breaks down into smaller aggregates
3	Aggregate breaks down completely into sand grains

Reference: Australian Standards (1980).

SOIL DISPERSION CLASS.

Emerson Class	Interpretation
1	Slaking, complete dispersion
2	Slaking, partial dispersion
3	Slaking, slight dispersion after remoulding and immersing in water
4	Slaking, nil dispersion, carbonate or gypsum present
5	Slaking, carbonate or gypsum absent, remould, reshake, dispersion
6	Slaking, carbonate or gypsum absent, remould, reshake, non-dispersive
7	No slaking, swelling, nil dispersion
8	No slaking, swelling
	Orange: Dispersive soil.

Reference: Emerson (1967), Australian Standards (1980).