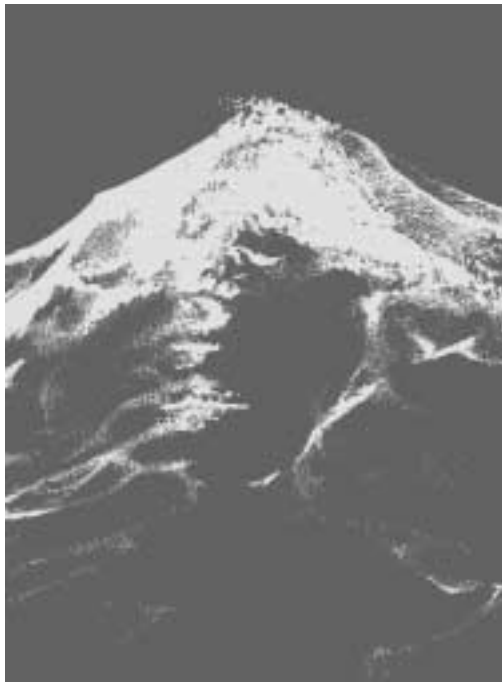


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Hydrochemical data for south-eastern Australian saline lakes

All ions are reported in meq L⁻¹; salinity is reported in mg L⁻¹; Alk, carbonate alkalinity (HCO₃ + CO₃). CSA, Coastal Plain, South Australia; CSAm, Coastal Plain, South Australia (CaCO₃ dissolution); NVa, Western Plains, Victoria (Newer Volcanics); NVb, Western Plains, Victoria (Newer Volcanics with large weathering component); Wpm, Western Plains, Victoria (maar lakes); WPs, Western Plains, Victoria (scoria lakes); WPq, Western Plains, Victoria (playa lakes); RPm, Riverine Plain, Victoria (mixed); RPrg, Riverine Plain, Victoria (regional groundwater); RPst, Riverine Plain, Victoria (storage/throughflow); RPt, Riverine Plain, Victoria (Tyrrell–Wahpool–Timboram Lakes Complex). Mc#, McLaughlin (1965); DL#, De Deckker and Last (1989); DW#, De Deckker and Williams (1988); D#, P. De Deckker, unpublished data; G#, P. Gell, unpublished data; #, this study.

Sample no.	Region	Lake	Date	pH	Alk	Cl	SO ₄	Ca	Mg	Na	K	Salinity	Error
D10	CSA	Chara	Oct. 1981	9.0	4.9	278.9	18.7	8.0	53.3	232.7	5.2	16804	-0.5
D2	CSA	Coorong (Menindee)	Oct. 1981	8.3	3.5	456.8	45.4	19.7	89.1	393.7	9.5	28420	0.6
t171	CSA	DG13	July 1994	7.5	6.5	1861.2	144.7	34.4	386.5	1261.5	14.3	103628	-8.5
D11	CSA	Eliza	Oct. 1981	7.9	4.8	1243.6	119.3	50.6	210.7	1081.4	27.0	77071	0.1
t178	CSA	George SA	July 1994	8.4	3.7	648.6	75.0	18.2	127.5	587.3	11.5	41152	1.2
t177	CSA	Pool of Siloam	July 1994	8.1	3.1	1269.0	168.6	41.4	250.8	1044.0	24.0	79080	-2.9
t174	CSA	Robe	July 1994	8.1	5.7	1353.6	208.2	37.4	316.6	1109.3	24.8	85594	-2.6
t173	CSAm	Chara	July 1994	8.6	7.9	846.0	64.5	10.7	143.9	652.5	14.8	49389	-5.5
t172	CSAm	DG16	July 1994	7.6	28.0	2707.2	437.2	16.2	542.8	2479.5	38.4	177579	-1.5
D5	CSAm	Fellmongery	Oct. 1981	8.3	11.8	417.4	40.6	9.1	94.0	359.3	8.2	26243	0.1
D8	CSAm	Fresh Dip	Oct. 1981	8.1	5.9	30.2	3.1	3.3	10.9	24.7	0.8	2244	0.6
D6	CSAm	near L. Fox	Oct. 1981	8.7	6.5	154.5	19.6	9.0	43.5	125.3	2.8	9992	0.0
D4	CSAm	Robe Golf Course	Oct. 1981	8.2	15.5	143.0	27.7	11.4	49.5	124.0	1.8	10499	0.1
D7	CSAm	near Salt Creek	Oct. 1981	9.8	4.3	119.6	8.7	1.4	17.2	112.2	1.9	7607	0.1
D1	CSAm	T1	Oct. 1981	9.0	8.0	423.0	36.2	7.6	72.6	383.2	6.9	26461	0.3
D3	CSAm	T2	Oct. 1981	9.5	8.0	222.5	19.4	5.6	41.1	197.1	5.6	14175	-0.1
DW8	NVa	Corangamite	Aug. 1979	9.1	13.9	529.9	13.4	2.7	79.6	481.8	3.6	31563	0.9
G40	NVa	Gnarput	Feb. 1991	8.9	10.5	224.7	9.1	1.6	52.4	190.9	1.4	13526	0.4
DW5	NVa	Gnarput	Aug. 1979	8.8	7.4	150.0	6.1	3.2	31.1	128.5	0.9	9125	0.1
t122	NVa	Martin	May 1994	9.0	7.8	63.5	2.1	2.5	15.6	56.6	0.6	4199	1.3
G45	NVa	Milangil	Feb. 1991	8.7	13.3	331.5	3.1	2.5	62.9	288.2	1.1	19438	1.0
t121	NVa	Murdeduke	May 1994		10.9	231.2	6.7	2.0	44.4	200.1	1.4	13887	-0.2
G10	NVa	Murdeduke	Dec. 1992	8.7	8.8	220.9	6.0	2.0	44.2	200.4	1.1	13352	2.5
G46	NVb	Bookar	Feb. 1991	8.1	37.6	577.1	4.6	0.6	79.1	531.8	3.0	35339	-0.4
G94	NVb	Bookar	July 1991	9.4	31.9	475.2	2.5	0.6	67.2	469.5	2.2	29816	2.8
G47	NVb	Colongulac	Feb. 1991	8.7	53.2	264.9	2.5	1.2	38.1	280.4	3.9	19382	0.4
G69	NVb	Coradgill	Feb. 1991	9.4	15.0	118.5	1.6	1.0	18.9	109.2	2.2	7813	-1.4
G49	NVb	Goldsmith	Dec. 1992	8.9	7.1	36.6	1.5	1.4	6.3	38.3	0.2	2720	1.0
t120	NVb	Goldsmith	May 1994	9.0	16.8	135.4	5.9	1.8	21.0	137.0	0.6	9326	0.7
DW14	NVb	Kariah	Aug. 1979	9.1	14.4	115.9	5.4	0.8	13.7	142.7	0.9	8583	7.6
t126	NVb	Koreetnung	May 1994	9.1	10.6	91.7	3.7	1.6	11.9	102.2	0.3	6471	4.5
DW12	NVb	Koreetnung	Aug. 1979	9	12.1	177.0	3.0	1.2	19.4	188.8	0.7	11549	4.5
G3	NVb	Ondit	Dec. 1991	8.7	1.9	64.9	2.0	4.6	9.8	56.8	1.1	3951	2.4
DL7	NVb	Ondit	N/A	9.6	0.8	42.9	2.0	0.6	3.6	46.5	1.1	2791	6.2
t124	NVb	Terangpom	May 1994	9.1	9.5	31.0	1.2	1.7	10.7	31.8	0.9	2543	3.8
G16	NVb	Terangpom	Dec. 1992	8.5	7.1	36.8	0.7	1.6	8.4	35.0	0.5	2632	1.1
G28	NVb	Weeranganuk	Dec. 1992	8.5	3.7	71.9	3.4	1.3	9.8	70.9	0.2	4602	2.0
t29	RPm	Cullen	Sept. 1993	8.7	9.8	479.4	41.6	11.0	106.9	408.9	2.1	29309	-0.2
t158	RPm	Cullen	May 1994	8.5	10.6	648.6	66.6	17.5	148.0	609.0	5.6	41428	3.6
t109	RPm	Cullen	Jan. 1994	8.9	6.9	902.4	97.9	17.5	201.5	826.5	3.5	56623	2.0
t145	RPm	Golf Course	May 1994	9.1	10.5	282.0	50.0	1.2	64.1	300.2	4.3	20143	3.8
G85	RPm	Long	Nov. 1990	8.3	15.6	3635.0	599.5	24.4	910.5	3479.0	37.7	240662	2.3
t102	RPm	Round	Jan. 1994	8.9	10.6	902.4	103.1	8.5	263.2	770.0	8.2	55810	1.6
t146	RPm	Round	May 1994	8.5	10.6	817.8	68.7	9.2	226.2	739.5	17.1	50820	5.0
t24	RPm	Round	Sept. 1993	8.8	9.2	958.8	160.3	9.0	180.9	826.5	10.0	61847	-4.7
t26	RPm	William	Sept. 1993	7.7	8.7	4794.0	437.2	20.5	1233.6	4132.5	8.4	287373	1.5
t80	RPrg	Boort Swamp	Nov. 1993	8.9	2.1	620.4	147.8	94.8	189.2	500.3	6.9	42916	1.3
t73	RPrg	Elizabeth	Nov. 1993	8.5	1.7	253.8	70.8	35.4	50.2	239.3	2.8	18830	0.2
t150	RPrg	Kelly	May 1994	8.0	3.7	1170.3	104.1	107.3	213.8	1022.3	2.0	72472	2.6
t129	RPrg	Little Pine	May 1994	8.8	10.6	437.1	85.4	10.7	64.1	456.8	6.1	31209	0.4
t83	RPrg	Little Pine	Nov. 1993	8.5	10.7	521.7	81.2	10.2	106.9	500.3	3.3	34899	0.6
t3	RPrg	Little Pine	Sept. 1993	8.8	11.0	479.4	83.3	8.0	67.4	435.0	3.1	31958	-5.5
t159	RPrg	Parilla Quarrie	May 1994	8.7	2.1	493.5	62.5	64.9	111	435	5.4	32151	5.0
t149	RPrg	Tuchewop	May 1994	8.2	6.0	1804.8	182.1	86.4	452.3	1326.8	6.4	105634	-3.1
t104	RPrg	Tuchewop	Jan. 1994	8.5	4.5	1522.8	181.1	89.8	407.1	1326.8	6.0	95544	3.4
t25	RPrg	Tuchewop	Sept. 1993	8.1	5.7	1240.8	181.1	74.9	337.2	957.0	6.4	76828	-1.9
t62	RPrg	Uncomfortable	Nov. 1993	8.1	3.9	958.8	87.4	39.9	209.7	804.8	11.4	58200	0.7

Hydrochemical data for south-eastern Australian saline lakes (Continued)

Sample no.	Region	Lake	Date	pH	Alk	Cl	SO ₄	Ca	Mg	Na	K	Salinity	Error
t153	RPrg	Wandella	May 1994	8.8	5.4	408.9	62.5	74.9	106.9	304.5	1.6	26400	1.1
t111	RPrg	Wandella	Jan. 1994	8.9	4.9	366.6	139.5	42.9	123.4	326.3	1.7	28435	-1.7
t33	RPrg	Wandella	Sept. 1993	8.6	4.4	366.6	56.2	34.9	90.5	261.0	2.2	22764	-4.7
t144	RPst	Boga	May 1994	8.6	5.3	18.6	1.2	2.4	5.4	16.1	0.4	1479	-1.7
t117	RPst	Boort	Jan. 1994	8.6	4.6	16.6	0.1	2.3	5.3	13.9	0.4	1254	1.3
t118	RPst	Cooper	Jan. 1994	8.8	7.8	31.0	3.6	1.5	9.9	32.6	0.3	2542	2.1
t148	RPst	Lookout	May 1994	8.9	7.1	35.3	3.3	2.1	10.7	37.0	0.6	2755	4.9
t163	RPst	Lyndger	May 1994	8.3	9.4	49.4	0.1	3.8	14.0	37.4	1.0	3302	-2.2
t103	RPst	Mannaor	Jan. 1994	8.8	6.0	25.4	1.6	2.5	8.6	20.9	0.6	1899	-0.6
t160	RPst	Murphy	May 1994	8.8	10.6	121.3	5.9	3.9	35.4	113.1	0.7	7941	5.3
t76	RPst	Murphy	Nov. 1993	9.0	5.6	64.9	3.9	4.0	12.7	52.2	0.9	4147	-3.2
t113	RPst	Murphy	Jan. 1994	8.5	9.3	121.3	0.8	4.3	23.4	104.4	0.5	7411	0.5
t166	RPst	Sandhill	July 1994	8.7	6.4	22.6	1.4	2.0	8.2	23.5	0.5	1858	5.9
t119	RPst	Windy	Jan. 1994	8.9	8.9	36.7	4.4	1.9	11.1	39.2	0.3	3001	2.4
Mc2	RPt	Ntyrell	Sept. 1963	7.1	2.4	5194.4	167.4	21.8	601.2	4959.0	19.4	307632	2.2
Mc4	RPt	Timboram	Sept. 1963	7.2	1.6	1130.8	37.5	72.3	187.5	978.8	7.2	66241	3.1
Mc1	RPt	Tyrell (salt works)	Sept. 1963	6.8	1.2	4328.7	54.1	5.0	250.0	4089.0	9.0	250646	-0.4
Mc3	RPt	Wahpool	Sept. 1963	7.6	3.1	1773.8	60.0	54.9	214.6	1748.7	5.4	107496	4.8
DW2	WPm	Bullen	Aug. 1979	9.3	10.7	126.9	1.0	0.8	20.4	113.8	2.3	7921	-0.5
DL	WPm	Ebasin	Oct. 1986	9.2	32.8	826.3	9.0	1.6	98.7	709.1	14.8	48655	-2.6
t123	WPm	Elingamite	May 1994	8.5	3.8	22.8	2.0	2.2	8.2	18.9	0.4	1634	1.9
DW9	WPm	Gnotuk	Aug. 1979	8.8	12.0	979.7	20.7	6.8	203.5	803.0	15.6	55688	0.8
G19	WPm	Keilembete	Nov. 1991	9.1	28.1	1182.1	3.4	0.7	115.1	1051.5	14.8	68574	-1.3
G146	WPm	West Basin	Apr. 1991	8.9	29.7	1391.0	29.3	0.8	118.6	1277.1	19.4	82687	-1.2
G136	WPm	West Basin	Sept. 1991	8.8	27.8	1387.0	30.0	0.7	133.5	1266.1	19.3	82210	-0.9
G141	WPm	West Basin	Dec. 1991	8.7	30.5	1413.9	30.5	0.8	133.5	1326.1	20.1	84761	0.2
DL1	WPq	Beeac	N/A	8.7	6.3	613.3	30.2	0.6	34.2	748.2	4.0	40954	9.6
G5	WPq	Beeac	Dec. 1992	8.75	9.5	688.1	36.1	0.8	36.8	692.5	4.3	42820	0.1
DL2	WPq	Cemetary	N/A	8.6	5.2	1480.5	55.8	0.8	62.6	1374.5	3.9	87269	-3.3
G6	WPq	Cemetary South	Oct. 1991	8.5	6.7	705.0	35.4	1.8	67.9	708.1	2.5	43529	2.2
G24	WPq	Cundare	Dec. 1992	9	8.9	1064.3	66.7	0.7	39.0	1107.9	4.4	67145	0.5
DL3	WPq	Cundare	N/A	8.7	6.1	1184.3	61.4	0.4	36.0	1148.6	3.7	71880	-2.6
DL4	WPq	Eurack	N/A	8.1	14.4	2052.2	33.4	3.8	223.7	1948.8	5.0	120349	1.9
DL5	WPq	Pink	N/A	8.1	13.6	3093.3	148.8	6.0	479.5	2967.4	18.5	186769	3.2
DL6	WPq	Weering	N/A	7.8	8.2	4354.7	160.8	6.6	619.6	3806.2	35.0	251699	-0.6
G13	WPs	Gnalinegurk	Dec. 1992	9.7	197.8	462.0	3.5	0.2	5.2	619.5	26.3	43898	-0.9
G36	WPs	Immensal	Dec. 1992	9.4	44.0	68.5	4.0	0.5	11.5	101.2	3.9	7794	0.2
G41	WPs	Little Tarn	Dec. 1992	8.9	22.3	18.9	1.0	1.0	3.1	37.5	1.6	3024	1.1
G35	WPs	Red Rock Tarn	Dec. 1992	9.8	138.0	148.7	1.5	0.4	3.1	264.5	12.4	20340	-1.4
G15	WPs	Werowrap	Dec. 1992	9.7	187.2	331.5	5.8	0.4	3.9	487.6	16.7	35329	-1.5
G43	WPs	West Twin	Dec. 1992	9.7	138.0	167.3	1.5	0.7	4.7	226.3	8.0	19956	-12.3